Hewlett-Packard Company

TPC Benchmark™ C
Full Disclosure Report
for
HP ProLiant DL385 G1/32GB/ Opteron 2.4GHz Dual Core
using
Microsoft SQL Server 2005 Enterprise Edition
and
Windows Server 2003, Enterprise Edition

First Edition
Submitted for Review
September 30, 2005

© Copyright 2005 Hewlett-Packard Development Company, L.P.

First Edition – September 2005

Hewlett-Packard Company (HP) believes that the information in this document is accurate as of the publication date. The information in this document is subject to change without notice. HP assumes no responsibility for any errors that may appear in this document. The pricing information in this document is believed to accurately reflect the current prices as of the publication date. However, HP provides no warranty of the pricing information in this document.

Benchmark results are highly dependent upon workload, specific application requirements, and system design and implementation. Relative system performance will vary as a result of these and other factors. Therefore, TPC Benchmark C should not be used as a substitute for a specific customer application benchmark when critical capacity planning and/or product evaluation decisions are contemplated.

All performance data contained in this report were obtained in a rigorously controlled environment. Results obtained in other operating environments may vary significantly. HP does not warrant or represent that a user can or will achieve similar performance expressed in transactions per minute (tpmC) or normalized price/performance (USD$/tpmC). No warranty of system performance or price/performance is expressed or implied in this report.

Copyright 2005 Hewlett-Packard Company.

All rights reserved. Permission is hereby granted to reproduce this document in whole or in part provided the copyright notice printed above is set forth in full text or on the title page of each item reproduced.

Printed in U.S.A., 2005
HP, NonStop, ProLiant DL385 G1, and ProLiant are registered trademarks of Hewlett-Packard Company.

Microsoft, Windows 2000, Windows Server 2003 and SQL Server 2005 are registered trademarks of Microsoft Corporation.

Xeon is a registered trademark of Intel.

Opteron is a registered trademark of AMD.

TPC Benchmark is a trademark of the Transaction Processing Performance Council.

Other product names mentioned in this document may be trademarks and/or registered trademarks of their respective companies.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Table of Contents

TABLE OF CONTENTS **3**

PREFACE **5**

TPC BENCHMARK C OVERVIEW 5

ABSTRACT **6**

OVERVIEW 6
TPC BENCHMARK C METRICS 6
STANDARD AND EXECUTIVE SUMMARY STATEMENTS 6
AUDITOR 6

GENERAL ITEMS **10**

TEST SPONSOR 10
APPLICATION CODE AND DEFINITION STATEMENTS 10
PARAMETER SETTINGS 10
CONFIGURATION ITEMS 10

CLAUSE 1 RELATED ITEMS **12**

TABLE DEFINITIONS 12
PHYSICAL ORGANIZATION OF DATABASE 12
Benchmarked Configuration: *12*
PRICED CONFIGURATION VS. MEASURED CONFIGURATION: 13
INSERT AND DELETE OPERATIONS 13
PARTITIONING 13
REPLICATION, DUPLICATION OR ADDITIONS 13

CLAUSE 2 RELATED ITEMS **14**

RANDOM NUMBER GENERATION 14
INPUT/OUTPUT SCREEN LAYOUT 14
PRICED TERMINAL FEATURE VERIFICATION 14
PRESENTATION MANAGER OR INTELLIGENT TERMINAL 14
TRANSACTION STATISTICS 15
QUEUING MECHANISM 15

CLAUSE 3 RELATED ITEMS **16**

TRANSACTION SYSTEM PROPERTIES (ACID) 16
ATOMICITY 16
Completed Transactions *16*
Aborted Transactions *16*
CONSISTENCY 16
ISOLATION 16
DURABILITY 17
Durable Media Failure *17*
Instantaneous Interruption and Loss of Memory *18*

CLAUSE 4 RELATED ITEMS **19**

INITIAL CARDINALITY OF TABLES 19
DATABASE LAYOUT 19
TYPE OF DATABASE 20

© Copyright 2005 Hewlett-Packard Development Company, L.P.

DATABASE MAPPING 20
60 DAY SPACE 20

CLAUSE 5 RELATED ITEMS 21

THROUGHPUT 21
KEYING AND THINK TIMES 21
RESPONSE TIME FREQUENCY DISTRIBUTION CURVES AND OTHER GRAPHS 22
STEADY STATE DETERMINATION 27
WORK PERFORMED DURING STEADY STATE 27
MEASUREMENT PERIOD DURATION 27
REGULATION OF TRANSACTION MIX 28
TRANSACTION STATISTICS 28
CHECKPOINT COUNT AND LOCATION 29
CHECKPOINT DURATION 29

CLAUSE 6 RELATED ITEMS 30

RTE DESCRIPTIONS 30
EMULATED COMPONENTS 30
FUNCTIONAL DIAGRAMS 30
NETWORKS 30
OPERATOR INTERVENTION 30

CLAUSE 7 RELATED ITEMS 31

SYSTEM PRICING 31
AVAILABILITY, THROUGHPUT, AND PRICE PERFORMANCE 31
COUNTRY SPECIFIC PRICING 31
USAGE PRICING 31

CLAUSE 9 RELATED ITEMS 32

AUDITOR'S REPORT 32
AVAILABILITY OF THE FULL DISCLOSURE REPORT 32

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Preface

The TPC Benchmark C was developed by the Transaction Processing Performance Council (TPC). The TPC was founded to define transaction processing benchmarks and to disseminate objective, verifiable performance data to the industry. This full disclosure report is based on the TPC Benchmark C Standard Specifications Version 5.4.

TPC Benchmark C Overview

The TPC describes this benchmark in Clause 0.1 of the specifications as follows:

TPC Benchmark™ C (TPC-C) is an OLTP workload. It is a mixture of read-only and update intensive transactions that simulate the activities found in complex OLTP application environments. It does so by exercising a breadth of system components associated with such environments, which are characterized by:

- The simultaneous execution of multiple transaction types that span a breadth of complexity
- On-line and deferred transaction execution modes
- Multiple on-line terminal sessions
- Moderate system and application execution time
- Significant disk input/output
- Transaction integrity (ACID properties)
- Non-uniform distribution of data access through primary and secondary keys
- Databases consisting of many tables with a wide variety of sizes, attributes, and relationships
- Contention on data access and update

The performance metric reported by TPC-C is a "business throughput" measuring the number of orders processed per minute. Multiple transactions are used to simulate the business activity of processing an order, and each transaction is subject to a response time constraint. The performance metric for this benchmark is expressed in transactions-per-minute-C (tpmC). To be compliant with the TPC-C standard, all references to tpmC results must include the tpmC rate, the associated price-per-tpmC, and the availability date of the priced configuration.

Although these specifications express implementation in terms of a relational data model with conventional locking scheme, the database may be implemented using any commercially available database management system (DBMS), database server, file system, or other data repository that provides a functionally equivalent implementation. The terms "table", "row", and "column" are used in this document only as examples of logical data structures.

TPC-C uses terminology and metrics that are similar to other benchmarks, originated by the TPC or others. Such similarity in terminology does not in any way imply that TPC-C results are comparable to other benchmarks. The only benchmark results comparable to TPC-C are other TPC-C results conformant with the same revision.

Despite the fact that this benchmark offers a rich environment that emulates many OLTP applications, this benchmark does not reflect the entire range of OLTP requirements. In addition, the extent to which a customer can achieve the results reported by a vendor is highly dependent on how closely TPC-C approximates the customer application. The relative performance of systems derived from this benchmark does not necessarily hold for other workloads or environments. Extrapolations to any other environment are not recommended.

Benchmark results are highly dependent upon workload, specific application requirements, and systems design and implementation. Relative system performance will vary as a result of these and other factors. Therefore, TPC-C should not be used as a substitute for a specific customer application benchmarking when critical capacity planning and/or product evaluation decisions are contemplated.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Abstract

Overview

This report documents the methodology and results of the TPC Benchmark C test conducted on the HP ProLiant DL385 G1. The operating system used for the benchmark was Windows Server 2003, Enterprise Edition. The DBMS used was Microsoft SQL Server 2005 Enterprise Edition.

TPC Benchmark C Metrics

The standard TPC Benchmark C metrics, tpmC (transactions per minute), price per tpmC (three year capital cost per measured tpmC), and the availability date are reported as:

109,633tpmC
USD $2.73per tpmC

The availability date is November 8, 2005.

Standard and Executive Summary Statements

The following pages contain executive summary of results for this benchmark.

Auditor

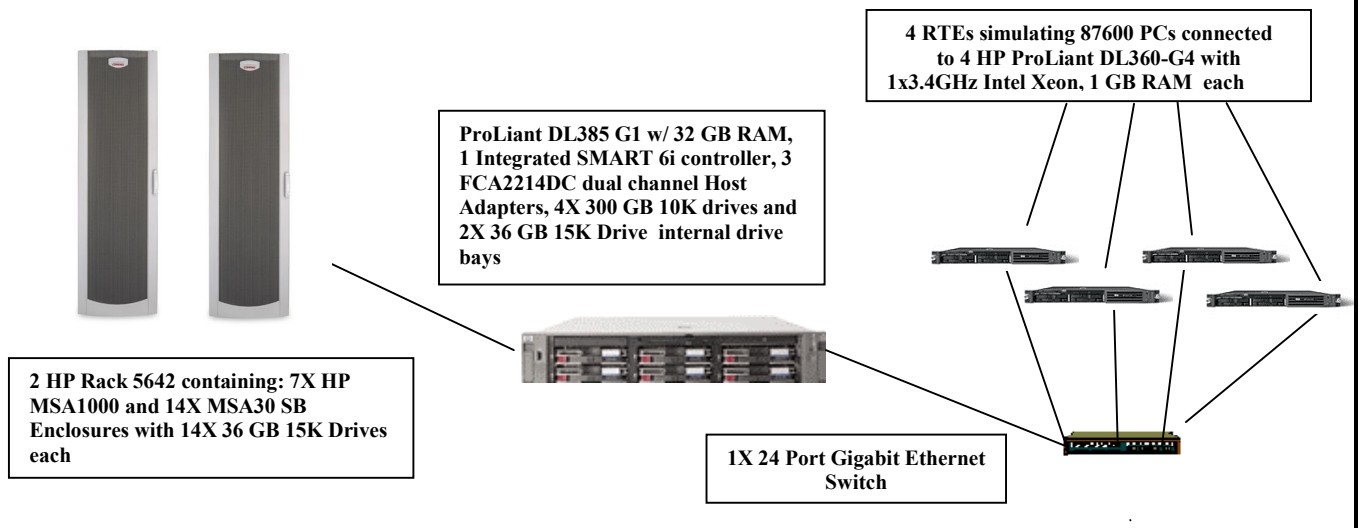
The benchmark configuration, environment and methodology were audited by Lorna Livingtree of Performance Metrics, Inc. to verify compliance with the relevant TPC specifications.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Hewlett-Packard Company	HP ProLiant DL385 G1 32GB/2.4GHz DC/2P C/S with 4 HP ProLiant DL360R	TPC-C Rev. 5.4 **Report Date: Sept. 30, 2005**

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
$298,216 USD	**109,633**	**$2.73 USD**	**Nov. 8, 2005**

Processors	Database Manager	Operating System	Other Software	Number of Users
2 Opteron 280 2 processor 4cores 2.4 GHz Dual Core (1MB) Server 4 Intel Xeon 3.06 GHz – Clients	Microsoft SQL Server 2005 Enterprise Edition	Windows Server 2003, Enterprise Edition	Microsoft Visual C++ Microsoft COM+	**87600**



	Server		Each Client	
System Components	Quantity	Description	Quantity	Description
Processor	2	Opteron 280 2.4GHz DC w/ 1MB Cache	1	3.4 GHz Intel Xeon w/ 1MB L2 cache
Memory	8	4 GB DDR	2	512MB
Disk Controllers	1 3	Integrated SMART 6i FCA2214DC dual channel Host Adapters	1	Integrated SMART 6i Array Controller
Disk Drives	4 296	300 GB SCSI Drive 36.4 GB SCSI Drive	2	36.4 GB SCSI Drive
Total Storage		11,157.88 GB		33.9 GB

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Hewlett-Packard Company	HP ProLiant DL385/G1/32GB/2.4GHz Client/Server				TPC-C Rev. 5.4 Report Date: 30-Sep-05	
Description	**Part Number**	**Third Party Brand**	**Pricing**	**Unit Price**	**Qty**	**Extended Price**	**3 yr. Maint. Price**
Server Hardware							
HP DL385G1 2400 DC US Svr/integrated 6i controller/2 gigabit NICs	399684-001		1	3,749	1	3,749	
HP O280 2.4/1000-1M DC DL385G1 Kit	399692-B21		1	1,449	1	1,449	
HP 8GB Reg PC2700 2x4GB Memory	395409-B21		1	7,499	4	29,996	
HP Storageworks MSA 30 SB Storage	302969-B21		1	2,829	14	39,606	
MSA SAN Switch 2/8	288247-B21		1	4,149	1	4,149	
Modular SAN Array 1000	201723-B22		1	6,995	7	48,965	
FCA2214DC dual channel Host Adapter	321835-B21		1	2,250	3	6,750	
HP 5642 Unassembled Rack	358254-B21		1	689	2	1,378	
UPS R1500 XR Low Voltage US	204404-001		1	866	1	866	
36GB 15Krpm U320 UNI HDD	286776-B22		1	299	296	88,504	
HP 300GB 10K U320 Pluggable Hard Drive	350964-B22		1	989	4	3,956	
HP 3y 4h 24x7 ProLiant DL38x HW Support	U4545E		1	949	1		949
MSA1000 Carepaq 3yr 4hr 24x7	402164-002		1	3,538	7		24,766
MSA30 Carepaq 3yr 4hr 24x7	U8130E		1	1,827	14		25,578
Storage Works LC/LC 15m Fibre Cable	221692-B23		1	103	8	824	
Storage Works LC/LC 15m Fibre Cable (10% spares)	221692-B23		1	103	2		206
HP s7540 17in. CRT Monitor	PF997AA#ABA		1	149	1	149	
HP PS/2 Scroll Mouse carbonite	DG169AV		1	5	1	5	
HP Enhanced Keyboard	DG170AV#ABA		1	10	1	10	
					Subtotal	**230,356**	**51,499**
Server Software							
SQL Server 2005 Enterprise (x86) Edition	810-00845	Microsoft	2	19,909	2	39,818	
Visual C++ .Net Standard	254-00170	Microsoft	2	109	1	109	Incl below
Microsoft Windows Server 2003, Enterprise Edition	P72-00264	Microsoft	2	2,334	1	2,334	Incl below
Microsoft Problem Resolution Services (1 incident)		Microsoft	2	245	1		245
					Subtotal	**42,261**	**245**
Client Hardware							
HP DL360G4 X3.4GHz 1P 1GB SCSI US Rck Server - Dual Integrated Gigabit NIC, Integrated Smart Array Controller 5i	354571-001		1	2,599	4	10,396	
HP s7540 17in. CRT Monitor	PF997AA#ABA		1	149	4	596	
HP PS/2 Scroll Mouse carbonite	DG169AV		1	5	4	20	
HP Enhanced Keyboard	DG170AV#ABA		1	10	4	40	
36GB 15K U320 Pluggable Hard Drive	286776-B22		1	299	8	2,392	
FM-EL724-36 3YR 24X7 4HR ENTRY 300 SVR	162675-002		1	599	4		2,396
					Subtotal	**13,444**	**2,396**
Client Software							
Microsoft Windows 2000 Server	C11-00821	Microsoft	2	738	4	2,952	Incl. Above
					Subtotal	**2,952**	**0**
User Connectivity							
HP ProCurve Switch 2824	J4903A#ABA		1	2499	1	2,499	
HP CP for HP ProCurve Networking products 3 Yr 4 hr/24x7	U2856E		1	1000	1		1,000
					Subtotal	**2,499**	**1,000**
Large Purchase and Net 30 discount (See Note 1)	16.0%		1			**($39,408)**	**($8,783)**
					Total	**$252,104**	**$46,112**

Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on assumptions about past or future purchases are not permitted. All discounts reflect standard pricing policies for the listed components. For complete details, see the pricing sections of the TPC benchmark pricing specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank you.

Three-Year Cost of Ownership: **$298,216 USD**

tpmC Rating: **109,633**

$ / tpmC: **$2.73 USD**

Pricing: 1=HP Direct: 800-203-6748 2= Microsoft

Note 1 = Discount based onHP Direct guidence with large purchase and Net 30 discount.Applies to all lines with 1 in pricing column.

Note:The benchmark results and test methodology were audited by Lorna Livingtree of Performance Metrics, Inc.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Numerical Quantities Summary

MQTH, Computed Maximum Qualified Throughput 109,633 tpmC

Response Times (in seconds)	Average	90%	Maximum
New-Order	0.39	0.74	17.21
Payment	0.36	0.71	18.41
Order-Status	0.37	0.72	14.30
Delivery (interactive portion)	0.10	0.11	0.40
Delivery (deferred portion)	0.14	0.18	4.05
Stock-Level	0.37	0.73	16.02
Menu	0.10	0.11	0.59

Transaction Mix, in percent of total transaction	
New-Order	44.92%
Payment	43.03%
Order-Status	4.00%
Delivery	4.01%
Stock-Level	4.03%

Emulation Delay (in seconds)	Resp.Time	Menu
New-Order	0.10	0.10
Payment	0.10	0.10
Order-Status	0.10	0.10
Delivery (interactive)	0.10	0.10
Stock-Level	0.10	0.10

Keying/Think Times (in seconds)	Min.	Average	Max.
New-Order	18.02/0.00	18.03/12.06	18.35/120.53
Payment	3.02/0.00	3.03/12.06	3. 35/120.53
Order-Status	2.02/0.00	2.03/10.07	2. 35/100.53
Delivery (interactive)	2.02/0.00	2.03/5.07	2. 35/50.51
Stock-Level	2.02/0.00	2.03/5.06	2. 35/50.53

Test Duration	
Ramp-up time	18 minutes
Measurement interval	120 minutes
Transactions (all types) completed during measurement interval	30,463,175
Ramp down time	34 minutes

Checkpointing	
Number of checkpoints	4
Checkpoint interval	30 minutes

© Copyright 2005 Hewlett-Packard Development Company, L.P.

General Items

Test Sponsor

A statement identifying the benchmark sponsor(s) and other participating companies must be provided.

This benchmark was sponsored by Hewlett-Packard Company. The benchmark was developed and engineered by Hewlett-Packard Company. Testing took place at HP benchmarking laboratories in Houston, Texas.

Application Code and Definition Statements

The application program (as defined in clause 2.1.7) must be disclosed. This includes, but is not limited to, the code implementing the five transactions and the terminal input output functions.

Appendix A contains all source code implemented in this benchmark.

Parameter Settings

Settings must be provided for all customer-tunable parameters and options which have been changed from the defaults found in actual products, including by not limited to:

- *Database options*
- *Recover/commit options*
- *Consistency locking options*
- *Operating system and application configuration parameters*

This requirement can be satisfied by providing a full list of all parameters.

Appendix C contains the tunable parameters to for the database, the operating system, and the transaction monitor.

Configuration Items

Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences.

The configuration diagram for both the tested and priced systems are included on the following page.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Figure 1 Benchmarked Configuration

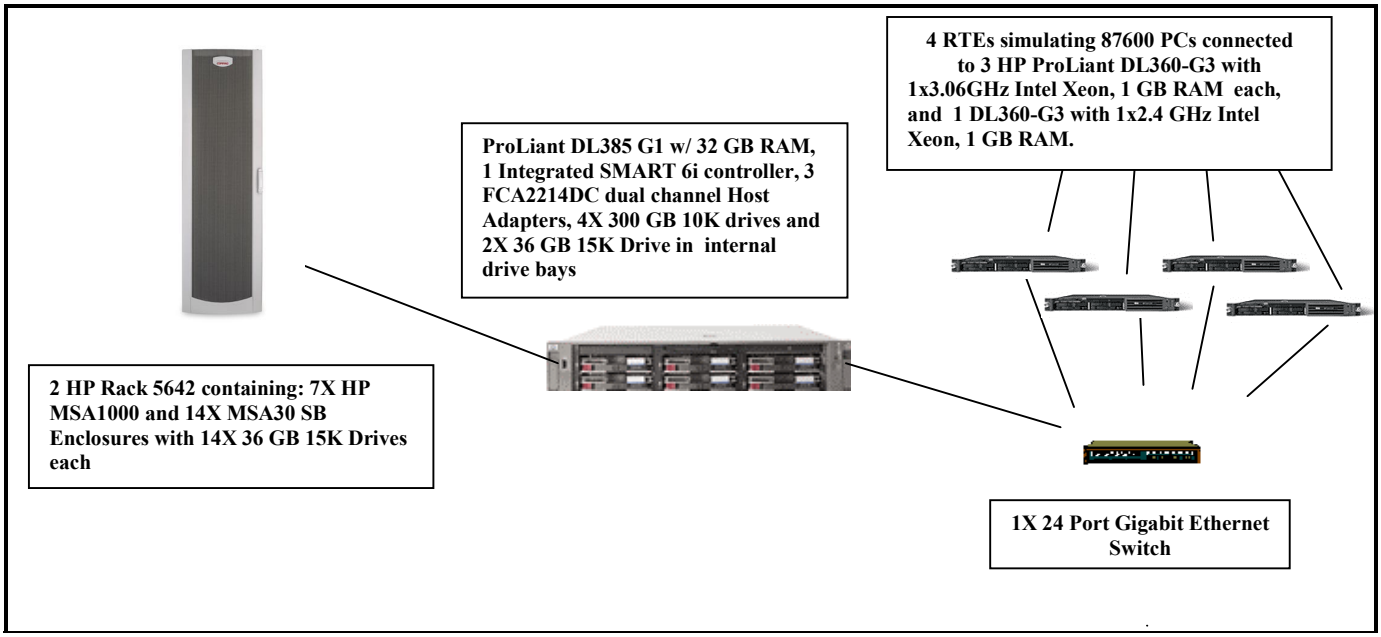
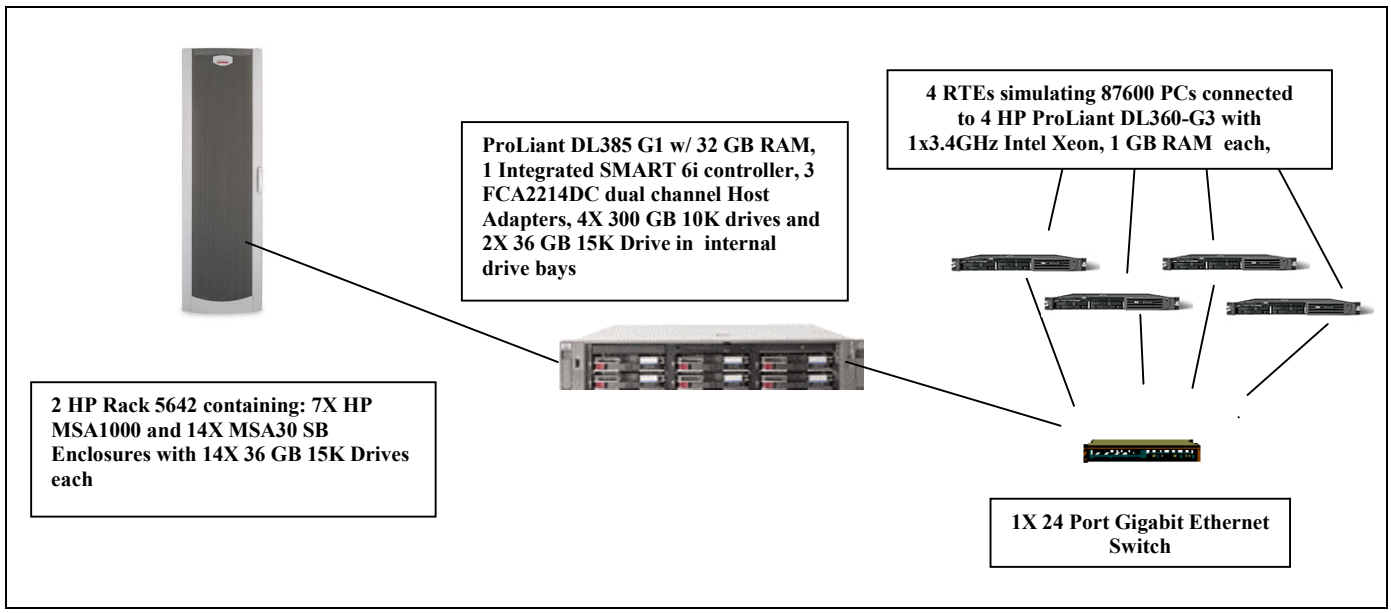


Figure 2 Priced Configuration



© Copyright 2005 Hewlett-Packard Development Company, L.P.

Clause 1 Related Items

Table Definitions

Listing must be provided for all table definition statements and all other statements used to set up the database.

Appendix B contains the code used to define and load the database tables.

Physical Organization of Database

The physical organization of tables and indices within the database must be disclosed.
The tested configuration consisted of: 294 drives at 36.4GB connected to (3) FCA2214DC dual channel Host Adapters for database data, 2 36.4GB drives for the operating system connected to the integrated SMART 6i controller, along with 4 drives at 300GB in the internal drive bays for the database log.

Benchmarked Configuration:

Integrated SMART 6i Controller, Array A

LOGICAL DRIVE C:	Total Capacity = 33.91 GB	RAID 1
Microsoft Windows Server 2003, Enterprise Edition		
LOGICAL DRIVE E:	Total Capacity = 558.78 GB	RAID 0+1
MSSQL_tpcc_log		

FCA2214DC Port 1, Slot 1, Array A

LOGICAL DRIVE F:	Total Capacity = 78.12 GB	RAID 0
MSSQL_cs1		
LOGICAL DRIVE M:	Total Capacity = 39.06 GB	RAID 0
MSSQL_misc1		
LOGICAL DRIVE W:	Total Capacity = 653.67 GB	RAID 0+1
Tpccback1		

FCA2214DC Port 2, Slot 1, Array A

LOGICAL DRIVE G:	Total Capacity = 78.12 GB	RAID 0
MSSQL_cs2		
LOGICAL DRIVE N:	Total Capacity = 39.06 GB	RAID 0
MSSQL_misc2		

FCA2214DC Port 1, Slot 2, Array A

LOGICAL DRIVE H:	Total Capacity = 78.12 GB	RAID 0
MSSQL_cs3		
LOGICAL DRIVE O:	Total Capacity = 39.06 GB	RAID 0
MSSQL_misc3		
LOGICAL DRIVE X:	Total Capacity = 653.67 GB	RAID 0+1
Tpccback2		

FCA2214DC Port 2, Slot 2, Array A

LOGICAL DRIVE I:	Total Capacity = 78.12 GB	RAID 0
MSSQL_cs4		
LOGICAL DRIVE P:	Total Capacity = 39.06 GB	RAID 0
MSSQL_misc4		

© Copyright 2005 Hewlett-Packard Development Company, L.P.

FCA2214DC Port 1, Slot 3, Array A

LOGICAL DRIVE J:	Total Capacity = 78.12 GB	RAID 0
MSSQL_cs5		
LOGICAL DRIVE Q:	Total Capacity = 39.06 GB	RAID 0
MSSQL_misc5		

FCA2214DC Port 1, Slot 3, Array A

LOGICAL DRIVE K:	Total Capacity = 78.12 GB	RAID 0
MSSQL_cs6		
LOGICAL DRIVE R:	Total Capacity = 39.06 GB	RAID 0
MSSQL_misc6		
LOGICAL DRIVE Y:	Total Capacity = 653.67 GB	RAID 0+1
Tpccback3		

FCA2214DC Port 2, Slot 3, Array A

LOGICAL DRIVE L:	Total Capacity = 78.12 GB	RAID 0
MSSQL_cs7		
LOGICAL DRIVE S:	Total Capacity = 39.06 GB	RAID 0
MSSQL_misc7		
LOGICAL DRIVE Z:	Total Capacity = 653.67 GB	RAID 0+1
Tpccback4		

Priced Configuration vs. Measured Configuration:

The measured configuration had 3 HP ProLiant DL360 G3 systems with a 3.06GHz processor, and one HP ProLiant DL360 G3 system with a 2.4GHz processor. The priced configuration used 4 HP ProLiant DL360 G3 systems with a 3.4GHz processor.

Insert and Delete Operations

It must be ascertained that insert and/or delete operations to any of the tables can occur concurrently with the TPC-C transaction mix. Furthermore, any restrictions in the SUT database implementation that precludes inserts beyond the limits defined in Clause 1.4.11 must be disclosed. This includes the maximum number of rows that can be inserted and the minimum key value for these new rows.

All insert and delete functions were fully operational during the entire benchmark.

Partitioning

While there are a few restrictions placed upon horizontal or vertical partitioning of tables and rows in the TPC-C benchmark, any such partitioning must be disclosed.

No partitioning was used in this benchmark.

Replication, Duplication or Additions

Replication of tables, if used, must be disclosed. Additional and/or duplicated attributes in any table must be disclosed along with a statement on the impact on performance.

No replications, duplications or additional attributes were used in this benchmark.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Clause 2 Related Items

Random Number Generation

The method of verification for the random number generation must be described.

In the Benchcraft RTE from Microsoft, each driver engine uses an independent random number sequence. All of the users within a given driver draw from the same sequence.

The Benchcraft RTE computes random integers as described in “Random Numbers Generators: Good Ones Are Hard to Find." Communications of the ACM - October 1988 Volume 31 Number 10.

The seeds for each user were captured and verified by the auditor to be unique. In addition, the contents of the database were systematically searched, and randomly sampled by the auditor for patterns that would indicate the random number generator had affected any kind of a discernible pattern; none were found.

Input/Output Screen Layout

The actual layout of the terminal input/output screens must be disclosed.

All screen layouts followed the specifications exactly.

Priced Terminal Feature Verification

The method used to verify that the emulated terminals provide all the features described in Clause 2.2.2.4 must be explained. Although not specifically priced, the type and model of the terminals used for the demonstration in 8.1.3.3 must be disclosed and commercially available (including supporting software and maintenance).

The terminal attributes were verified by the auditor. The auditor manually exercised each specification on a representative HP ProLiant web server.

Presentation Manager or Intelligent Terminal

Any usage of presentation managers or intelligent terminals must be explained.

Application code running on the client machines implemented the TPC-C user interface. No presentation manager software or intelligent terminal features were used. The source code for the forms applications is listed in Appendix A.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Transaction Statistics

Table 2.1 lists the numerical quantities that Clauses 8.1.3.5 to 8.1.3.11 require.

Table 2.1 Transaction Statistics

Statistic		Value
New Order	Home warehouse order lines	99.00%
	Remote warehouse order lines	1.00%
	Rolled back transactions	1.00%
	Average items per order	10.00
Payment	Home warehouse payments	85.00%
	Remote warehouse payments	15.00%
	Accessed by last name	60.00%
Order Status	Accessed by last name	60.06%
Transaction Mix	New Order	44.92%
	Payment	43.03%
	Order status	4.00%
	Delivery	4.01%
	Stock level	4.03%

Queuing Mechanism

The queuing mechanism used to defer the execution of the Delivery transaction must be disclosed.

Microsoft COM+ on each client machine served as the queuing mechanism to the database. Each delivery request was submitted to Microsoft COM+ asynchronously with control being returned to the client process immediately and the deferred delivery part completing asynchronously.

The source code is listed in Appendix A.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Clause 3 Related Items

Transaction System Properties (ACID)

The results of the ACID tests must be disclosed along with a description of how the ACID requirements were met. This includes disclosing which case was followed for the execution of Isolation Test 7.

All ACID property tests were successful. The executions are described below.

Atomicity

The system under test must guarantee that the database transactions are atomic; the system will either perform all individual operations on the data or will assure that no partially completed operations leave any effects on the data.

Completed Transactions

A row was selected in a script from the warehouse, district and customer tables, and the balances noted. A payment transaction was started with the same warehouse, district and customer identifiers and a known amount. The payment transaction was committed and the rows were verified to contain correctly updated balances.

Aborted Transactions

A row was selected in a script from the warehouse, district and customer tables, and the balances noted. A payment transaction was started with the same warehouse, district and customer identifiers and a known amount. The payment transaction was rolled back and the rows were verified to contain the original balances.

Consistency

Consistency is the property of the application that requires any execution of a database transaction to take the database from one consistent state to another, assuming that the database is initially in a consistent state.

Consistency conditions one through four were tested using a script to issue queries to the database. The results of the queries verified that the database was consistent for all four tests.

A run was executed under full load lasting over two hours and included a checkpoint.

The script was executed again. The result of the same queries verified that the database remained consistent after the run.

Isolation

Sufficient conditions must be enabled at either the system or application level to ensure the required isolation defined above (clause 3.4.1) is obtained.

Isolation tests one through nine were executed using shell scripts to issue queries to the database. Each script included timestamps to demonstrate the concurrency of operations. The results of the queries were captured to files. The captured files were verified by the auditor to demonstrate the required isolation had been met.

In addition, the phantom tests and the stock level tests were executed and verified.

For Isolation test seven, case A was followed.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Durability

The tested system must guarantee durability: the ability to preserve the effects of committed transaction and insure database consistency after recovery from any one of the failures listed in Clause 3.5.3.

Durable Media Failure

Loss of Data and Log

This test was executed on a fully scaled database of 880 warehouses under a full load of 8800 users. To demonstrate recovery from a permanent failure of durable medium containing DBMS logs and TPC-C tables, the following steps were executed:

- The total number of New Orders was determined by the sum of D_NEXT_O_ID of all rows in the DISTRICT table giving the beginning count.
- The RTEs were started with 8800 users.
- The test was allowed to run for a minimum of 10 minutes.
- One log disk was removed from the server.
- Since the disk was mirrored, processing was not interrupted. This was verified by checking the user status on the RTE.
- One of the data disks was removed from a MSA 1000.
- When Microsoft SQL Server recorded errors about not being able to access the database, the RTE was shut down and SQL stopped.
- Both disks were replaced with new disks, and the log drive was allowed to complete RAID1 recovery.
- Server was rebooted
- Microsoft SQL Server was restarted. A dump of the transaction log was taken.
- The database was restored from backup and the transaction log dump was applied.
- Consistency condition #3 was executed and verified.
- Step 1 was repeated and the difference between the first and second counts was noted.
- An RTE report was generated for the entire run time giving the number of NEW-ORDERS successfully returned to the RTE.
- The counts in step 13 and 14 were compared and the results verified that all committed transactions had been successfully recovered.
- Samples were taken from the RTE files and used to query the database to demonstrate successful transactions had corresponding rows in the ORDER table.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Instantaneous Interruption and Loss of Memory

Because loss of power erases the contents of memory, the instantaneous interruption and the loss of memory tests were combined into a single test. This test was executed on a fully scaled database of 8760 warehouses under a full load of 87,600 users. The following steps were executed:

- The total number of New Orders was determined by the sum of D_NEXT_O_ID of all rows in the DISTRICT table giving the beginning count.
- The RTE was started with 87,600 users.
- The test was allowed to run for a minimum of 10 minutes.
- System crash and loss of memory were induced by pulling the power cord out of the system.
- The RTE was shutdown.
- Power was restored and the system restarted.
- Microsoft SQL Server was restarted and performed an automatic recovery.
- Consistency condition #3 was executed and verified.
- Step 1 was repeated and the difference between the first and second counts was noted.
- An RTE report was generated for the entire run time giving the number of NEW-ORDERS successfully returned to the RTE.
- The counts in steps 9 and 10 were compared and the results verified that all committed transactions had been successfully recovered.
- Samples were taken from the RTE files and used to query the database to demonstrate successful transactions had corresponding rows in the ORDER table.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Clause 4 Related Items

Initial Cardinality of Tables

The cardinality (e.g. number of rows) of each table, as it existed at the start of the benchmark run, must be disclosed. If the database was over-scaled and inactive rows of the WAREHOUSE table were deleted, the cardinality of the WAREHOUSE table as initially configured and the number of rows deleted must be disclosed.

Table 4.1 Number of Rows for Server

Table	Cardinality as built
Warehouse	8800
District	88,000
Customer	264,000,000
History	264,000,000
Orders	264,000,000
New Order	79,200,000
Order Line	2,639,995,918
Stock	880,000,000
Item	100,000

Database Layout

The distribution of tables and logs across all media must be explicitly depicted for tested and priced systems.

The benchmarked configuration used (3) FCA2214DC dual channel Host Adapters connected to 7 MSA1000 fibre drive boxes each with 2 MSA30 single-bus disk enclosures and 1 integrated SMART6i controller connected to two 36.4 GB disks and four 300 GB disks in the internal disk drive bays. Two FCA2214DC dual channel Host Adapters accessed 42 disk drives per channel. One FCA2214DC dual channel Host Adapter had one channel that accessed 42 disk drives and 84 disk drives on the other. The channel that accessed 84 disk drives was connected to an MSA san switch that had two MSA1000 fibre disk boxes connected each with 2 MSA30's. Each MSA 1000 supports RAID 0, RAID 0+1, and RAID 5 per each logical volume configured. The data tables were stored on 7 RAID arrays of (42) 36.4 GB drives each. Four arrays were configured with 2 logical drives (RAID 0) for database data and one RAID 0+1 volume used for backups of the database. The three other arrays were configured with 2 logical drives RAID 0 for database data only. The database log volume was configured using four 300 GB drives as RAID 0+1 on the internal SMART6i controller. The operating system was also configured on the internal SMART6i controller on a RAID1 pair of 36.4GB 15K drives. The Array Accelerators on the MSA controllers were configured as 100% write cache and were enabled for all logical drives. The internal SMART6i controller had the cache disabled. All RAID volumes used hardware RAID.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Section 1.2 of this report details the distribution of database tables across all disks. The code that creates the filegroups and tables is included in Appendix B.

Type of Database

A statement must be provided that describes:

- *The data model implemented by DBMS used (e.g. relational, network, hierarchical).*
- *The database interface (e.g. embedded, call level) and access language (e.g. SQL, DL/1, COBOL read/write used to implement the TPC-C transaction. If more than one interface/access language is used to implement TPC-C, each interface/access language must be described and a list of which interface/access language is used with which transaction type must be disclosed.*

Microsoft SQL Server 2005 Enterprise Edition is a relational DBMS.

The interface used was Microsoft SQL Server stored procedures accessed with Remote Procedure Calls embedded in C code.

Database Mapping

The mapping of database partitions/replications must be explicitly described.

The database was not replicated.

60 Day Space

Details of the 60-day space computations along with proof that the database is configured to sustain 8 hours of growth for the dynamic tables (Order, Order-Line, and History) must be disclosed.

To calculate the space required to sustain the database log for 8 hours of growth at steady state, the following steps were followed:

- The free space on the log file was queried using *dbcc sqlperf(logspace)*.
- Transactions were run against the database with a full load of users.
- The free space was again queried using *dbcc sqlperf(logspace)*.
- The space used was calculated as the difference between the first and second query.
- The number of NEW-ORDERS was verified from the difference in the sum(d_next_o_id) taken from before and after the run.
- The space used was divided by the number of NEW-ORDERS giving a space used per NEW-ORDER transaction.
- The space used per transaction was multiplied by the measured tpmC rate times 480 minutes.

The same methodology was used to compute growth requirements for dynamic tables Order, Order-Line and History.

The details of both the 8-hour transaction log space requirement and the 60-day space requirement are shown in Appendix D.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Clause 5 Related Items

Throughput

Measured tpmC must be reported

Measured tpmC 109,633tpmC
Price per tpmC USD $2.73per tpmC

Response Times

Ninetieth percentile, maximum and average response times must be reported for all transaction types as well as for the menu response time.

Table 5.2: Response Times

Type	Average	90th %	Maximum
New-Order	0.39	0.74	17.21
Payment	0.36	0.71	18.41
Order-Status	0.37	0.72	14.30
Interactive Delivery	0.10	0.11	0.40
Deferred Delivery	0.14	0.18	4.05
Stock-Level	0.37	0.73	16.02
Menu	0.10	0.11	0.59

Keying and Think Times

The minimum, the average, and the maximum keying and think times must be reported for each transaction type.

Table 5.3: Keying Times

Type	Minimum	Average	Maximum
New-Order	18.02	18.03	18.35
Payment	3.02	3.03	3. 35
Order-Status	2.02	2.03	2. 35
Interactive Delivery	2.02	2.03	2. 35
Stock-Level	2.02	2.03	2. 35

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Table 5.4: Think Times

Type	Minimum	Average	Maximum
New-Order	0.00	12.06	120.53
Payment	0.00	12.06	120.53
Order-Status	0.00	10.07	100.53
Interactive Delivery	0.00	5.07	50.51
Stock-Level	0.00	5.06	50.53

Response Time Frequency Distribution Curves and Other Graphs

Response Time frequency distribution curves (see Clause 5.6.1) must be reported for each transaction type.

The performance curve for response times versus throughput (see Clause 5.6.2) must be reported for the New-Order transaction.

Think Time frequency distribution curves (see Clause 5.6.3) must be reported for each transaction type.

Keying Time frequency distribution curves (see Clause 5.6.4) must be reported for each transaction type.

A graph of throughput versus elapsed time (see Clause 5.6.5) must be reported for the New-Order transaction.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Figure 2 New Order Response Time Distribution

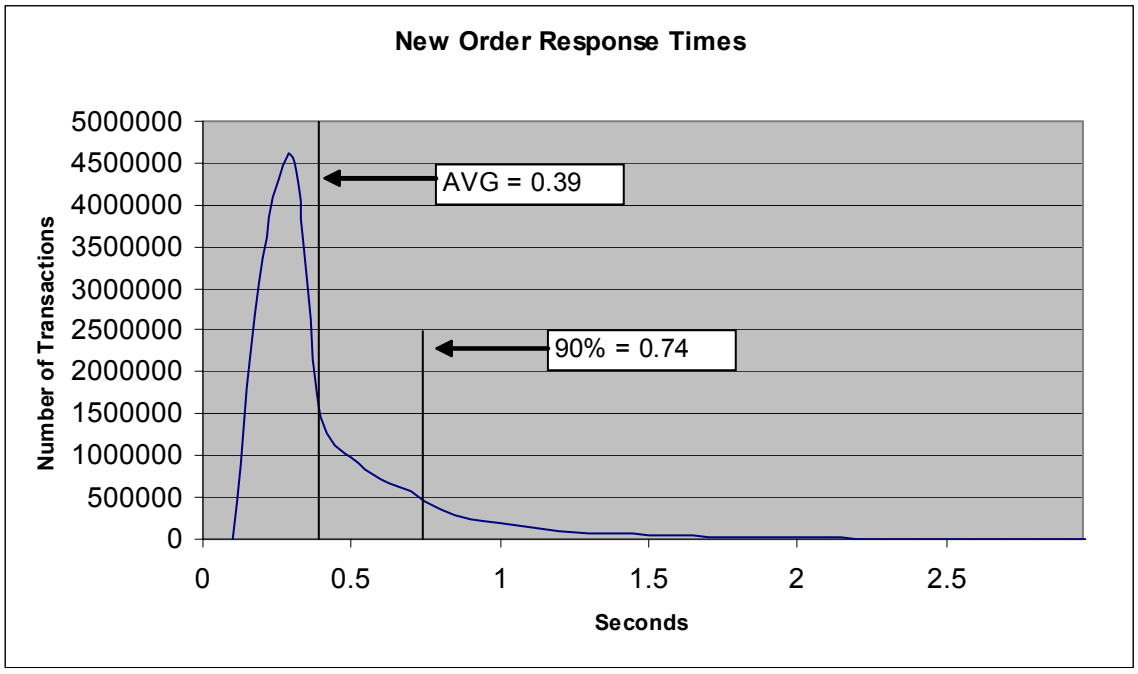
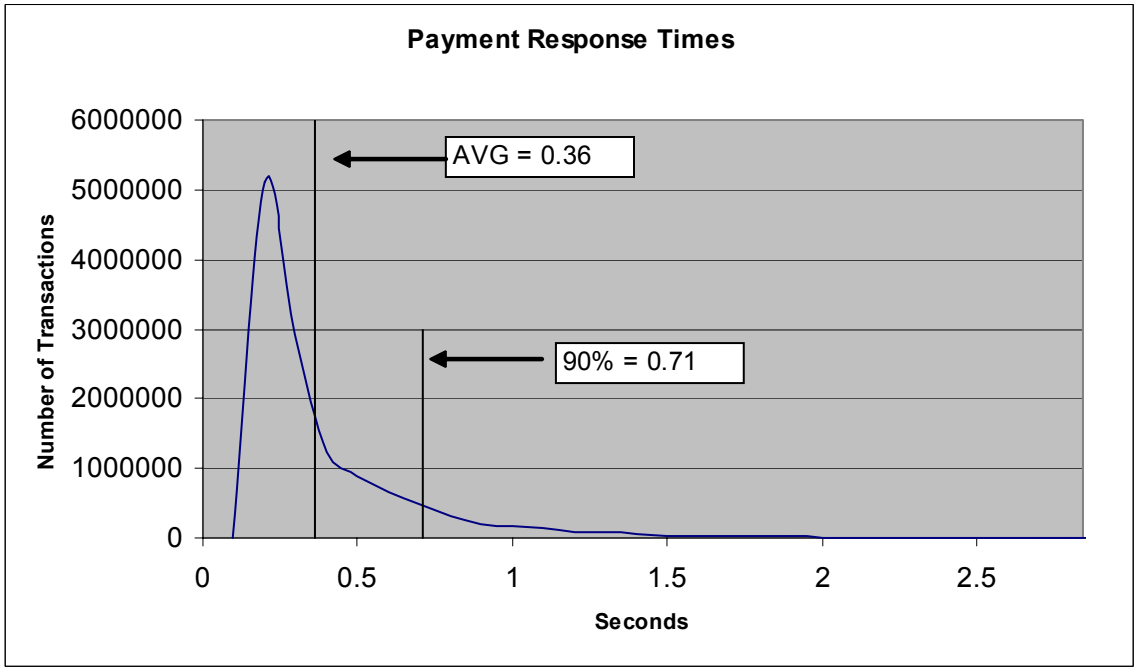


Figure 3 Payment Response Time Distribution



© Copyright 2005 Hewlett-Packard Development Company, L.P.

Figure 4 Order Status Response Time Distribution

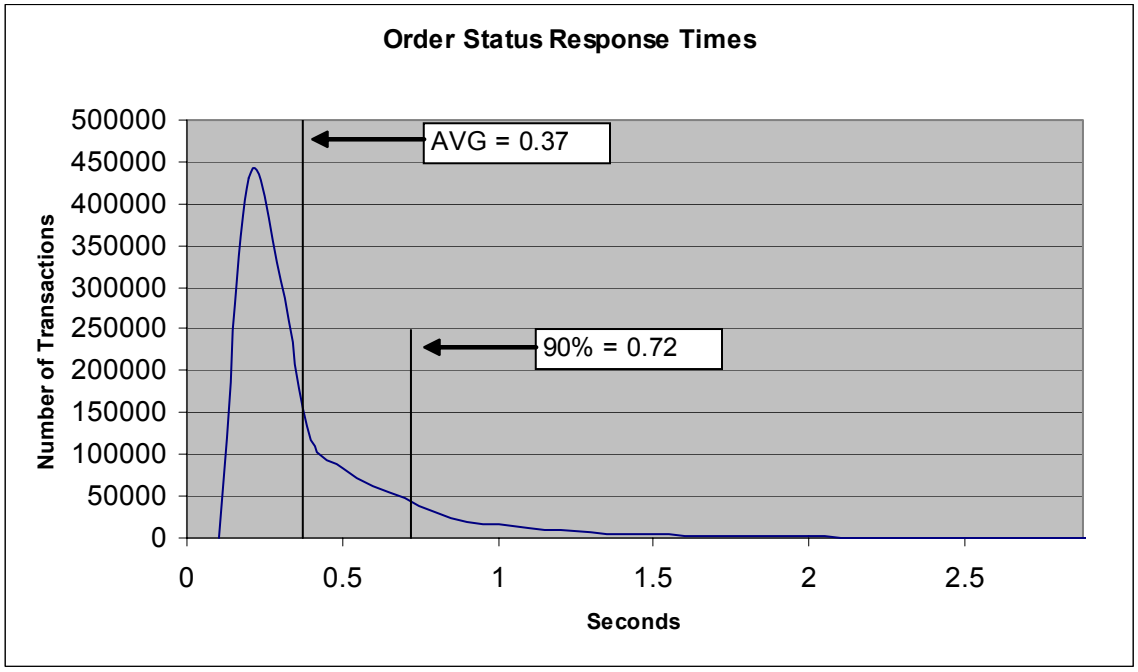
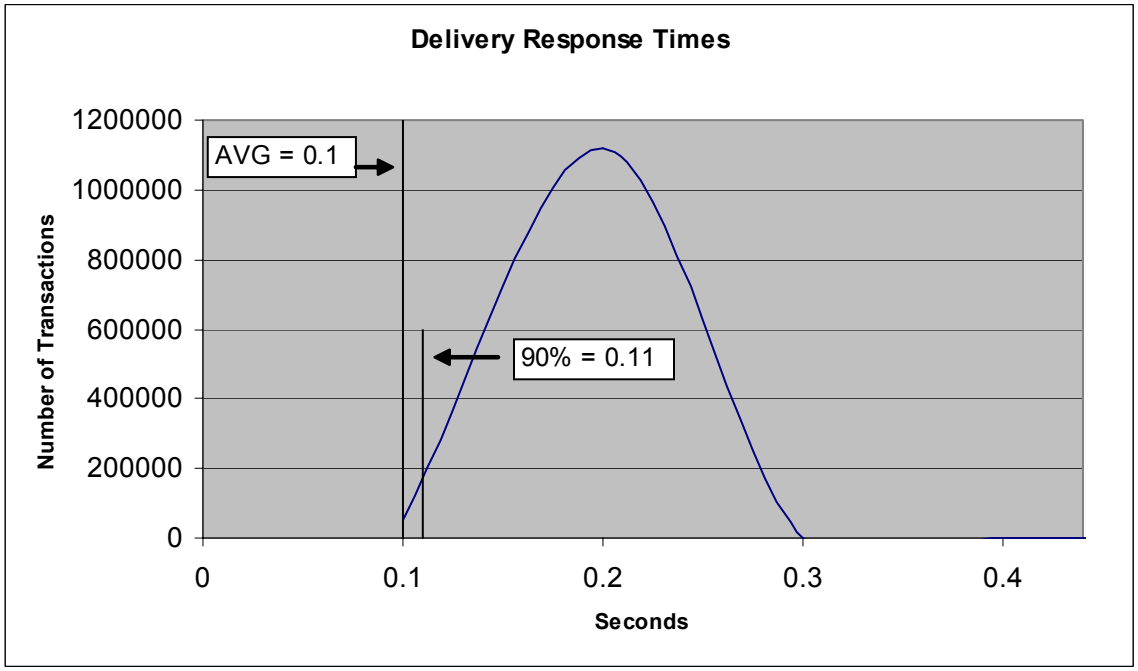


Figure 5 Delivery Response Time Distribution



© Copyright 2005 Hewlett-Packard Development Company, L.P.

Figure 6 Stock Level Response Time Distribution

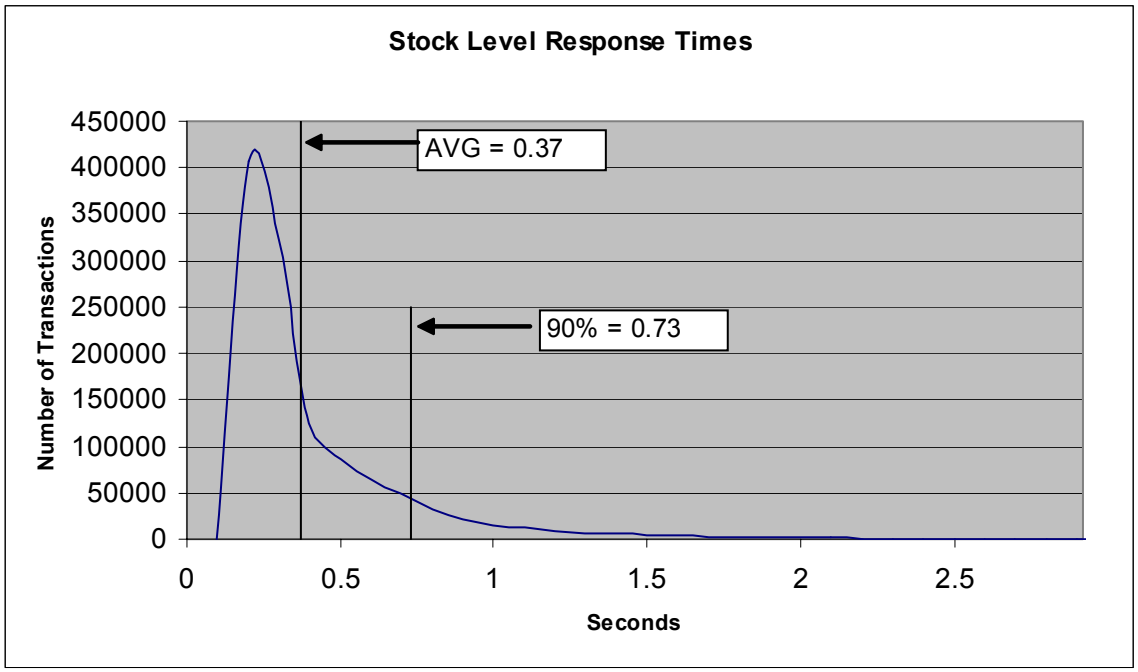
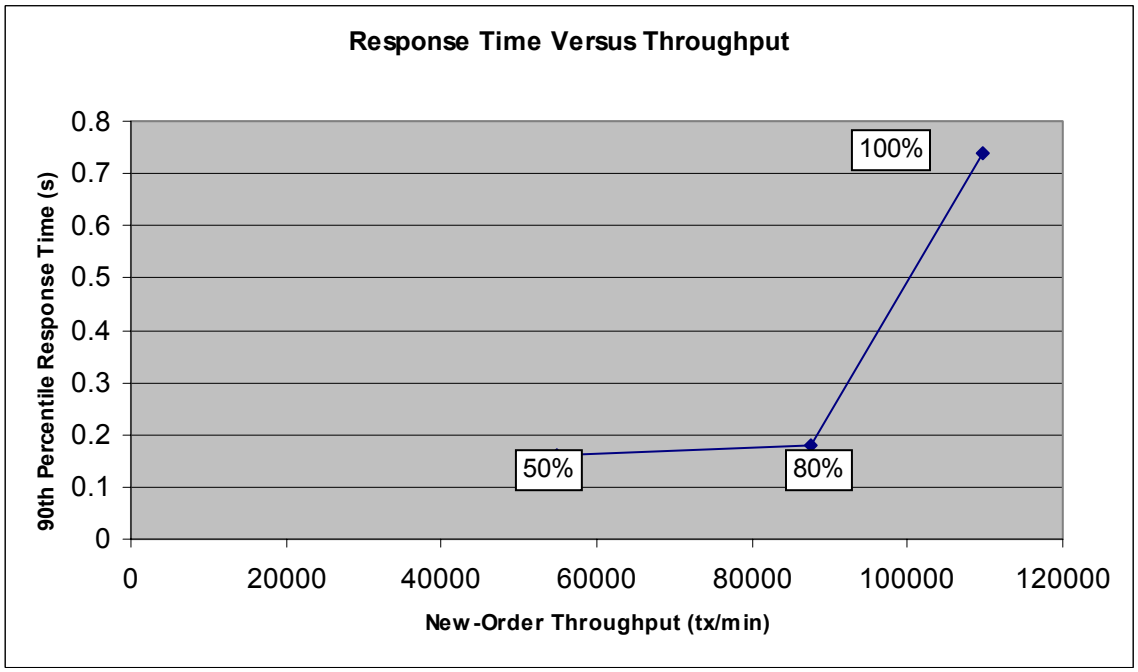


Figure 7 Response Time vs. Throughput



© Copyright 2005 Hewlett-Packard Development Company, L.P.

Figure 8 New Order Think Time Distribution

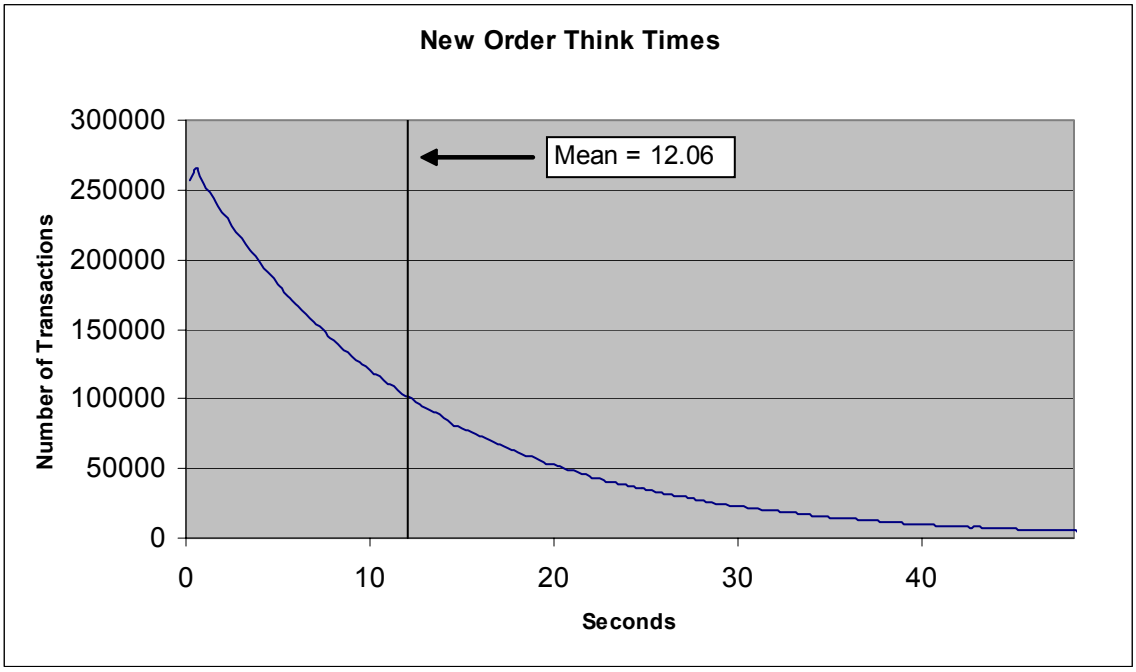
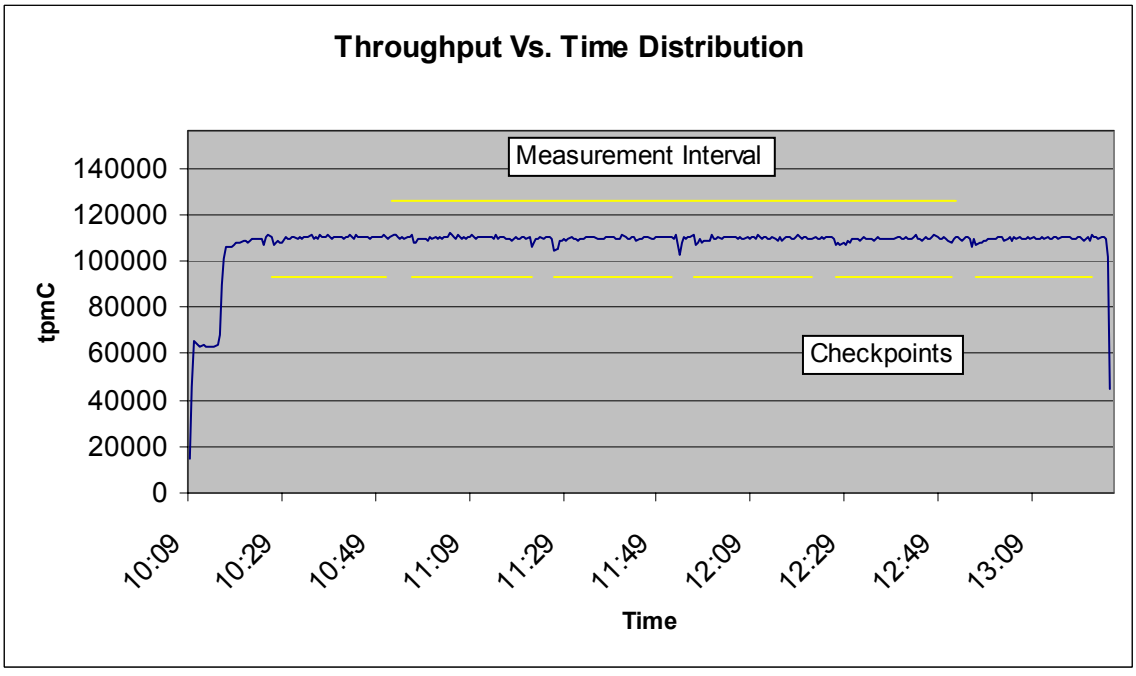


Figure 9 Throughput vs. Time Distribution



© Copyright 2005 Hewlett-Packard Development Company, L.P.

Steady State Determination

The method used to determine that the SUT had reached a steady state prior to commencing the measurement interval must be disclosed.

Steady state was determined using real time monitor utilities from the RTE. Steady state was further confirmed by the throughput data collected during the run and graphed in Figure 10.

Work Performed During Steady State

A description of how the work normally performed during a sustained test (for example checkpointing, writing redo/undo log records, etc.), actually occurred during the measurement interval must be reported.

The RTE generated the required input data to choose a transaction from the menu. This data was timestamped. The input screen for the requested transaction was returned and timestamped. The difference between these two timestamps was the menu response time. The RTE writes to the log file once per transaction on selective fields such as order id. There is one log file per driver engine.

The RTE generated the required input data for the chosen transaction. It waited to complete the minimum required key time before transmitting the input screen. The transmission was timestamped. The return of the screen with the required response data was timestamped. The difference between these two timestamps was the response time for that transaction.

The RTE then waited the required think time interval before repeating the process starting at selecting a transaction from the menu.

The RTE transmissions were sent to application processes running on the client machines through Ethernet LANs. These client application processes handled all screen I/O as well as all requests to the database on the server. The applications communicated with the database server over gigabit Ethernet LANs using ODBC and RPC calls.

To perform checkpoints at specific intervals, the SQL Server *recovery interval* was set to 32767and a script was written to schedule multiple checkpoints at specific intervals. The script included a wait time between each checkpoint equal to 30 minutes so that the checkpoint interval was an integral multiple of the measurement interval, which was 120 minutes. The checkpoint script was started manually after the RTE had all users logged in and the database had achieved steady state.

At each checkpoint, Microsoft SQL Server wrote to disk all memory pages that had been updated but not yet physically written to disk. The positioning of the measurement interval is depicted on the graph in Figure 10.

Measurement Period Duration

A statement of the duration of the measurement interval for the reported Maximum Qualified Throughput (tpmC) must be included.

The reported measured interval was exactly 120 minutes long.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Regulation of Transaction Mix

The method of regulation of the transaction mix (e.g., card decks or weighted random distribution) must be described. If weighted distribution is used and the RTE adjusts the weights associated with each transaction type, the maximum adjustments to the weight from the initial value must be disclosed.

The RTE was given a weighted random distribution, which was not adjusted during the run.

Transaction Statistics

The percentage of the total mix for each transaction type must be disclosed. The percentage of New-Order transactions rolled back as a result of invalid item number must be disclosed. The average number of order-lines entered per New-Order transaction must be disclosed. The percentage of remote order lines per New-Order transaction must be disclosed. The percentage of remote Payment transactions must be disclosed. The percentage of customer selections by customer last name in the Payment and Order-Status transactions must be disclosed. The percentage of Delivery transactions skipped due to there being fewer than necessary orders in the New-Order table must be disclosed.

Table 5.5: Transaction Statistics

Statistic		Value
New Order	Home warehouse order lines	99.00%
	Remote warehouse order lines	1.00%
	Rolled back transactions	1.00%
	Average items per order	10.00
Payment	Home warehouse payments	85.00%
	Remote warehouse payments	15.00%
	Accessed by last name	60.00%
Delivery	Skipped transactions (interactive)	0
	Skipped transactions (deferred)	0
Order Status	Accessed by last name	60.06%
Transaction Mix	New Order	44.92%
	Payment	43.03%
	Order status	4.00%
	Delivery	4.01%
	Stock level	4.03%

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Checkpoint Count and Location

The number of checkpoints in the Measurement Interval, the time in seconds from the start of the Measurement Interval to the first checkpoint, and the Checkpoint Interval must be disclosed.

The initial checkpoint was started 30 minutes after the start of the ramp-up. Subsequent checkpoints occurred every 30 minutes. Each checkpoint in the measurement interval lasted approximately 25 minutes. The measurement interval contains four checkpoints.

Checkpoint Duration

The start time and duration in seconds of at least the four longest checkpoints during the Measurement Interval must be disclosed.

Checkpoint Start Time	Duration
10:57:32.40 a.m.	25 minutes, 12 seconds
11:27:29.36 a.m.	25 minutes, 6 seconds
11:57:26.47 a.m.	25 minutes, 9seconds
12:27:23.33 a.m.	24 minutes, 47 seconds

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Clause 6 Related Items

RTE Descriptions

If the RTE is commercially available, then its inputs must be specified. Otherwise, a description must be supplied of what inputs (e.g., scripts) to the RTE had been used.

The RTE used was Microsoft Benchcraft RTE. Benchcraft is a proprietary tool provided by Microsoft and is not commercially available. The RTE's input is listed in Appendix A.

Emulated Components

It must be demonstrated that the functionality and performance of the components being emulated in the Driver System are equivalent to the priced system. The results of the test described in Clause 6.6.3.4 must be disclosed.

The driver system consisted of 4 HP ProLiant servers. These driver machines emulated the users' web browsers.

Functional Diagrams

A complete functional diagram of both the benchmark configuration and the configuration of the proposed (target) system must be disclosed. A detailed list of all hardware and software functionality being performed on the Driver System and its interface to the SUT must be disclosed.

The driver system performed the data generation and input functions of the priced display device. It also captured the input and output data and timestamps for post-processing of the reported metrics. No other functionality was included on the driver system.

Section 1.4 of this report contains detailed diagrams of both the benchmark configuration and the priced configuration.

Networks

The network configuration of both the tested services and proposed (target) services that are being represented and a thorough explanation of exactly which parts of the proposed configuration are being replaced with the Driver System must be disclosed.

The bandwidth of the networks used in the tested/priced configuration must be disclosed.

In the tested configuration, 4 driver (RTE) machines were connected through a gigabit Ethernet switch to the client machines at 1Gbs, thus providing the path from the RTEs to the clients. The server (SUT) was connected to the clients through a gigabit Ethernet switch on a separate LAN.

The priced configuration was connected in the same manner as the tested configuration.

Operator Intervention

If the configuration requires operator intervention (see Clause 6.6.6), the mechanism and the frequency of this intervention must be disclosed.

This configuration does not require any operator intervention to sustain eight hours of the reported throughput.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Clause 7 Related Items

System Pricing

A detailed list of hardware and software used in the priced system must be reported. Each separately orderable item must have vendor part number, description, and release/revision level, and either general availability status or committed delivery data. If package-pricing is used, vendor part number of the package and a description uniquely identifying each of the components of the package must be disclosed. Pricing source and effective date(s) of price(s) must also be reported.

The total 3 year price of the entire configuration must be reported, including: hardware, software, and maintenance charges. Separate component pricing is recommended. The basis of all discounts used must be disclosed.

The details of the hardware and software are reported in the front of this report as part of the executive summary. All third party quotations are included at the end of this report as Appendix E.

Availability, Throughput, and Price Performance

The committed delivery date for general availability (availability date) of products used in the price calculation must be reported. When the priced system included products with different availability dates, the reported availability date for the priced system must be the date at which all components are committed to be available.

A statement of the measured tpmC as well as the respective calculations for the 5-year pricing, price/performance (price/tpmC), and the availability date must be included.

- **Maximum Qualified Throughput** **109,633tpmC**
- **Price per tpmC** **USD $2.73per tpmC**
- **Availability** **November 8, 2005**

Country Specific Pricing

Additional Clause 7 related items may be included in the Full Disclosure Report for each country specific priced configuration. Country specific pricing is subject to Clause 7.1.7

This system is being priced for the United States of America.

Usage Pricing

For any usage pricing, the sponsor must disclose:

- *Usage level at which the component was priced.*
- *A statement of the company policy allowing such pricing.*

The component pricing based on usage is shown below:

- 4 Microsoft Windows 2000 Server
- 1 Microsoft Windows Server 2003, Enterprise Edition
- 2 Microsoft SQL Server 2005 Enterprise Edition (per processor licensing)
- 1 Microsoft Visual C++
- HP Servers include 3 years of support.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Clause 9 Related Items

Auditor's Report

The auditor's name, address, phone number, and a copy of the auditor's attestation letter indicating compliance must be included in the Full Disclosure Report.

This implementation of the TPC Benchmark C was audited by Lorna Livingtree of Performance Metrics, Inc.

Performance Metrics, Inc.
PO Box 984
Klamath, CA 95548
(phone) (916) 985-1131
(fax) 916) 985-1185
e-mail: lorna@perfmetrics.com

Availability of the Full Disclosure Report

The Full Disclosure Report must be readily available to the public at a reasonable charge, similar to the charges for similar documents by the test sponsor. The report must be made available when results are made public. In order to use the phrase "TPC Benchmark™ C", the Full Disclosure Report must have been submitted to the TPC Administrator as well as written permission obtained to distribute same.

Requests for this TPC Benchmark C Full Disclosure Report should be sent to:

Transaction Processing Performance Council
Presidio of San Francisco
P.O. Box 29920
San Francisco, CA 94129-0920

Voice: 415-561-6272
Fax: 415-561-6120
Email: info@tpc.org
or

Hewlett-Packard Company
Database Performance Engineering
P.O. Box 692000
Houston, TX 77269-2000

© Copyright 2005 Hewlett-Packard Development Company, L.P.

PERFORMANCE METRICS INC.
TPC Certified Auditors

September 15, 2005

Mr. David Adams
Hewlett-Packard Company
20555 SH 249
Houston, TX 77077

I have verified by remote the TPC Benchmark™ C for the following configuration:

Platform: HP ProLiant DL385 G1
Database Manager: Microsoft SQL Server 2005 Enterprise Edition
Operating System: Microsoft Windows 2003 Server Enterprise Edition
Transaction Monitor: COM+

System Under Test: HP ProLiant DL385 G1with:				
CPU's	Memory	Disks (total)	90% Response	TpmC
2 AMD Opteron dual core @2.4GHz	Main: 32 GB	295 @36GB 4 @ 300GB	0.74	109,633
4 clients: DL360G3 each with:				
1 Intel Xeon @3.06 GHz	Main: 1 GB	2 @ 36GB	Na	Na

In my opinion, these performance results were produced in compliance with the TPC requirements for the benchmark. The following attributes of the benchmark were given special attention:

- The transactions were correctly implemented.
- The database files were properly sized.
- The database was properly scaled with 8,800 warehouses, of which 8,760were active during the measured interval.
- The ACID properties were successfully demonstrated.

137 Yankton St. Suite 101, Folsom, CA 95630
(916) 985-1131 fax: (916) 985-1185 email: Lorna@PerfMetrics.com

© Copyright 2005 Hewlett-Packard Development Company, L.P.

- Data loss durability was demonstrated on a subset of the SUT configured with a database properly populated for 880 warehouses.
- Input data was generated according to the specified percentages.
- Eight hours of mirrored log space was present on the tested system.
- Eight hours of growth space for the dynamic tables was present on the tested system.
- The data for the 60 days space calculation was verified.
- The controller cache for the log disks was disabled.
- The steady state portion of the test was 120 minutes.
- One checkpoint was taken in steady state before the measured interval opened.
- Four checkpoints were completed inside the measured interval.
- The system pricing was checked for major components and maintenance.
- Third party quotes were verified for compliance.

Auditor Notes:
None.

Sincerely,

Lorna Livingtree

Lorna Livingtree
Auditor

137 Yankton St. Suite 101, Folsom, CA 95630
(916) 985-1131 fax: (916) 985-1185 email: Lorna@PerfMetrics.com

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Appendix A: Source Code

The client source code is listed below.

_delivery.h

```
/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifndef _delivery_v1_0_included
#define _delivery_v1_0_included
#ifndef IDLBASE_H
#include <dce\idlbase.h>
#endif
#include <dce\rpc.h>
#include "trpc/trpc.h"

#ifdef __cplusplus
    extern "C" {
#endif

#ifndef nbase_v0_0_included
#include "dce\nbase.h"
#endif
#ifndef trpcImports_v0_0_included
#include "trpc\trpcImports.h"
#endif
#ifndef mon_handle_v1_0_included
#include "tpm/mon\mon_handle.h"
#endif
#ifndef tpcc_types_v1_0_included
#include "tpcc_type.h"
#endif
#include <dce\rpcexc.h>
extern EXCEPTION encina_x_transaction_aborted;
extern EXCEPTION encina_x_server_shutdown;
extern EXCEPTION encina_x_permission_denied;
extern EXCEPTION encina_x_object_not_found;
extern EXCEPTION encina_x_empty_slot1;
extern EXCEPTION encina_x_empty_slot2;
extern EXCEPTION encina_x_empty_slot3;
extern EXCEPTION encina_x_empty_slot4;
extern EXCEPTION encina_x_empty_slot5;
extern EXCEPTION encina_x_undefined_exception;
extern void  IDL_STD_STDCALL _delivery_GetApplId(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
extern void  IDL_STD_STDCALL _impTPCCDelivery(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
globalref mon_handle_t handle;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __save
#pragma extern_model __common_block __shr
#endif
typedef struct _delivery_v1_0_epv_t {
void ( IDL_STD_STDCALL *_delivery_GetApplId)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
void ( IDL_STD_STDCALL *_impTPCCDelivery)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
} _delivery_v1_0_epv_t;
extern rpc_if_handle_t _delivery_v1_0_c_ifspec;
extern rpc_if_handle_t _delivery_v1_0_s_ifspec;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __restore
#endif

#ifdef __cplusplus
    }

#else
#endif
#endif
```

_neworder.h

```
/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifndef _neworder_v1_0_included
#define _neworder_v1_0_included
#ifndef IDLBASE_H
#include <dce\idlbase.h>
#endif
#include <dce\rpc.h>
#include "trpc/trpc.h"

#ifdef __cplusplus
    extern "C" {
#endif

#ifndef nbase_v0_0_included
#include "dce\nbase.h"
#endif
#ifndef trpcImports_v0_0_included
#include "trpc\trpcImports.h"
#endif
#ifndef mon_handle_v1_0_included
#include "tpm/mon\mon_handle.h"
#endif
#ifndef tpcc_types_v1_0_included
#include "tpcc_type.h"
#endif
#include <dce\rpcexc.h>
extern EXCEPTION encina_x_transaction_aborted;
extern EXCEPTION encina_x_server_shutdown;
extern EXCEPTION encina_x_permission_denied;
extern EXCEPTION encina_x_object_not_found;
extern EXCEPTION encina_x_empty_slot1;
extern EXCEPTION encina_x_empty_slot2;
extern EXCEPTION encina_x_empty_slot3;
extern EXCEPTION encina_x_empty_slot4;
extern EXCEPTION encina_x_empty_slot5;
extern EXCEPTION encina_x_undefined_exception;
extern void  IDL_STD_STDCALL _neworder_GetApplId(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
extern void  IDL_STD_STDCALL _impTPCCNewOrder(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
#endif
);
extern void  IDL_STD_STDCALL _impTPCCNOInfo(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [out] */ dbInfo_data_t *dataP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
globalref mon_handle_t handle;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __save
#pragma extern_model __common_block __shr
#endif
typedef struct _neworder_v1_0_epv_t {
void ( IDL_STD_STDCALL *_neworder_GetApplId)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
void ( IDL_STD_STDCALL *_impTPCCNewOrder)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
void ( IDL_STD_STDCALL *_impTPCCNOInfo)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [out] */ dbInfo_data_t *dataP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
} _neworder_v1_0_epv_t;
extern rpc_if_handle_t _neworder_v1_0_c_ifspec;
extern rpc_if_handle_t _neworder_v1_0_s_ifspec;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __restore
#endif

#ifdef __cplusplus
    }

#else
#endif
#endif
```

_orderstatus.h

```
/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifndef _orderstatus_v1_0_included
#define _orderstatus_v1_0_included
#ifndef IDLBASE_H
#include <dce\idlbase.h>
#endif
#include <dce\rpc.h>
#include "trpc/trpc.h"

#ifdef __cplusplus
    extern "C" {
#endif

#ifndef nbase_v0_0_included
#include "dce\nbase.h"
#endif
#ifndef trpcImports_v0_0_included
#include "trpc\trpcImports.h"
#endif
#ifndef mon_handle_v1_0_included
#include "tpm/mon\mon_handle.h"
#endif
#ifndef tpcc_types_v1_0_included
#include "tpcc_type.h"
#endif
#include <dce\rpcexc.h>
extern EXCEPTION encina_x_transaction_aborted;
extern EXCEPTION encina_x_server_shutdown;
extern EXCEPTION encina_x_permission_denied;
extern EXCEPTION encina_x_object_not_found;
extern EXCEPTION encina_x_empty_slot1;
extern EXCEPTION encina_x_empty_slot2;
extern EXCEPTION encina_x_empty_slot3;
extern EXCEPTION encina_x_empty_slot4;
extern EXCEPTION encina_x_empty_slot5;
extern EXCEPTION encina_x_undefined_exception;
extern void  IDL_STD_STDCALL _orderstatus_GetApplId(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
extern void  IDL_STD_STDCALL _impTPCCOrderStatus(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
globalref mon_handle_t handle;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __save
#pragma extern_model __common_block __shr
#endif
typedef struct _orderstatus_v1_0_epv_t {
void ( IDL_STD_STDCALL *_orderstatus_GetApplId)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
void ( IDL_STD_STDCALL *_impTPCCOrderStatus)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
} _orderstatus_v1_0_epv_t;
extern rpc_if_handle_t _orderstatus_v1_0_c_ifspec;
extern rpc_if_handle_t _orderstatus_v1_0_s_ifspec;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __restore
#endif

#ifdef __cplusplus
    }

#else
#endif
#endif
```

_payment.h

```
/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifndef _payment_v1_0_included
#define _payment_v1_0_included
#ifndef IDLBASE_H
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
#include <dce\idlbase.h>
#endif
#include <dce\rpc.h>
#include "trpc/trpc.h"

#ifdef __cplusplus
    extern "C" {
#endif

#ifndef nbase_v0_0_included
#include "dce\nbase.h"
#endif
#ifndef trpcImports_v0_0_included
#include "trpc\trpcImports.h"
#endif
#ifndef mon_handle_v1_0_included
#include "tpm/mon\mon_handle.h"
#endif
#ifndef tpcc_types_v1_0_included
#include "tpcc_type.h"
#endif
#include <dce\rpcexc.h>
extern EXCEPTION encina_x_transaction_aborted;
extern EXCEPTION encina_x_server_shutdown;
extern EXCEPTION encina_x_permission_denied;
extern EXCEPTION encina_x_object_not_found;
extern EXCEPTION encina_x_empty_slot1;
extern EXCEPTION encina_x_empty_slot2;
extern EXCEPTION encina_x_empty_slot3;
extern EXCEPTION encina_x_empty_slot4;
extern EXCEPTION encina_x_empty_slot5;
extern EXCEPTION encina_x_undefined_exception;
extern void  IDL_STD_STDCALL _payment_GetApplId(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
extern void  IDL_STD_STDCALL _impTPCCPayment(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
globalref mon_handle_t handle;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __save
#pragma extern_model __common_block __shr
#endif
typedef struct _payment_v1_0_epv_t {
void ( IDL_STD_STDCALL *_payment_GetApplId)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
void ( IDL_STD_STDCALL *_impTPCCPayment)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
} _payment_v1_0_epv_t;
extern rpc_if_handle_t _payment_v1_0_c_ifspec;
extern rpc_if_handle_t _payment_v1_0_s_ifspec;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __restore
#endif

#ifdef __cplusplus
    }

#else
#endif
#endif
```

_stocklevel.h

```
/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifndef _stocklevel_v1_0_included
#define _stocklevel_v1_0_included
#ifndef IDLBASE_H
#include <dce\idlbase.h>
#endif
#include <dce\rpc.h>
#include "trpc/trpc.h"

#ifdef __cplusplus
    extern "C" {
#endif

#ifndef nbase_v0_0_included
#include "dce\nbase.h"
#endif
#ifndef trpcImports_v0_0_included
#include "trpc\trpcImports.h"
#endif
#ifndef mon_handle_v1_0_included
#include "tpm/mon\mon_handle.h"
#endif
#ifndef tpcc_types_v1_0_included
#include "tpcc_type.h"
#endif
#include <dce\rpcexc.h>
extern EXCEPTION encina_x_transaction_aborted;
extern EXCEPTION encina_x_server_shutdown;
extern EXCEPTION encina_x_permission_denied;
extern EXCEPTION encina_x_object_not_found;
extern EXCEPTION encina_x_empty_slot1;
extern EXCEPTION encina_x_empty_slot2;
extern EXCEPTION encina_x_empty_slot3;
extern EXCEPTION encina_x_empty_slot4;
extern EXCEPTION encina_x_empty_slot5;
extern EXCEPTION encina_x_undefined_exception;
extern void  IDL_STD_STDCALL _stocklevel_GetApplId(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
extern void  IDL_STD_STDCALL _impTPCCStockLevel(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
globalref mon_handle_t handle;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __save
#pragma extern_model __common_block __shr
#endif
typedef struct _stocklevel_v1_0_epv_t {
void ( IDL_STD_STDCALL *_stocklevel_GetApplId)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
void ( IDL_STD_STDCALL *_impTPCCStockLevel)(
#ifdef IDL_PROTOTYPES
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
} _stocklevel_v1_0_epv_t;
extern rpc_if_handle_t _stocklevel_v1_0_c_ifspec;
extern rpc_if_handle_t _stocklevel_v1_0_s_ifspec;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __restore
#endif

#ifdef __cplusplus
    }

#else
#endif
#endif
```

client_utils.c

```
/* client_utils.c
*/

#include <stdio.h>
#include <time.h>
#include <windows.h>
#include <winperf.h>
#include <winsock.h>
#include "client_utils.h"

#define Li2Double(x) ((double)((x).HighPart) *
4.294967296E9 + (double)((x).LowPart))

static LARGE_INTEGER pFreq;
static double sFreq;
static int print_thread_id = 1;
static int user_id = 0;
static char *user_code = "C";

/*
 *  get_thread_id
 *      A function that returns the thread ID of the
current thread
 */
static int get_thread_id()
{
    return(GetCurrentThreadId());
}


/*
 *  get_prefix
 *        Format the output prefix for printing:
 *        It contains the user_id, 'C' or 'T'
depending on whether it
 *        is a terminal or a client and optional a
thread identifier
 *        The prefix is written in the buffer passed
in by the caller.
 */
static void get_prefix(char *buffer)
{
    if (print_thread_id) {
                    int thread_id = get_thread_id();
                    sprintf(buffer,  "%s(%d-%s-
%d)%s",
                    user_id < 10 ?  "  " : user_id <
100 ? " " : "",
                    user_id,
                    user_code,
                    thread_id,
                    thread_id < 10 ? " " : "");
    } else {
                    sprintf(buffer,  "%s(%2d-%s)",
                    user_id < 10 ? " " : "", user_id,
user_code);
    }
}

/*
 * err_printf
 *      A var-arg function that appends the current
time and
 *      other data to the print request and sends it
to stderr
 *      if it is not a web client, to a file if it is
 */
void err_printf(char *format, ...)
{
    time_t cur_timet;
    char time_str[30];
    char line_prefix[50];
    va_list ap;

    va_start(ap, format);

    cur_timet = time(&cur_timet);
    strftime(time_str, 29, "%X",
localtime(&cur_timet));

    get_prefix(line_prefix);

    fprintf(ERROUT, "%s %s - ", line_prefix,
time_str);
    vfprintf(ERROUT, format, ap);
    fflush(ERROUT);

    va_end(ap);
}


/*
 *  encina_error_message
 *  Report an encina error message by interpreting it
and writing
 *  it to both the logfile (if any) and to standard
error
 */
void encina_error_message(char *msg, unsigned long n)
{
    char errorMsg[ENCINA_MAX_STATUS_STRING_SIZE];
    encina_StatusToString(n,
ENCINA_MAX_STATUS_STRING_SIZE, errorMsg);
    err_printf("ERROR: %s.  Error code = %s (%d 0x%x)
\n", msg, errorMsg, n, n);
}

int get_time_init()
{
     QueryPerformanceFrequency(&pFreq);
     sFreq=Li2Double(pFreq);
     return 0;
}

int get_local_time(time_type *timeP)
{
    double cur_t;
    LARGE_INTEGER counter;

    QueryPerformanceCounter(&counter);
    cur_t = Li2Double(counter) / sFreq;
    timeP->sec = (long)cur_t;
/*    timeP->usec = ((long)cur_t - timeP->sec) *
1000000;*/
    timeP->usec = (long)((cur_t - timeP->sec) *
1000000);
          return 0;
}

/*
 *  time_diff_ms
 *      Return the difference in miliseconds between
two times
 */
int time_diff_ms(struct timeval *t2, struct timeval
*t1)
{
    int t_diff;

    t_diff = (t2->tv_usec + 1000000 - t1->tv_usec +
500) / 1000 +
              (t2->tv_sec - t1->tv_sec - 1) * 1000;

    return(t_diff);
}

/*
 * perfClntDataInit:
 *    Initialization for the shared file mapping.
 *
 * return: pointer to the shared memory space
 *
 * This routine creates a named mapped memory section
that is used
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
 * to communicate the TPCC performance data to the
extensible
 * counter DLL for NT perfmon.
 */
total_tran_count_t  *perfClntDataInit()
{
    HANDLE hMappedObject;
    total_tran_count_t  *pClntInfo = NULL;
    TCHAR  szMappedObjectName[] =
TEXT("TPCC_CLNT_COUNTER_BLOCK");

        /* create named section for the performance
data */
        hMappedObject =
CreateFileMapping((HANDLE)0xFFFFFFFF,
                      NULL,
                      PAGE_READWRITE,
                      0,
                      sizeof(total_tran_count_t),
                      szMappedObjectName);
        if (hMappedObject == NULL) {
            err_printf("perfClntDataInit:
CreateFileMapping failed %x\n",
                       GetLastError());
            pClntInfo = NULL;
        } else {
            /* map the section and assign the counter
block pointer
             * to this section of memory
             */
            pClntInfo = (total_tran_count_t *)
MapViewOfFile(hMappedObject,
                           FILE_MAP_ALL_ACCESS,
                           0,
                           0,
                           0);
            if (pClntInfo == NULL) {
                err_printf("perfClntDataInit:
MapViewOfFile failed %x\n",
                           GetLastError());
            }
            else {
                err_printf("perfClntDataInit:
MapViewOfFile success \n");
            }
        }

    return(pClntInfo);
}
```

client_utils.h

```
#ifndef TPCC_CLIENT_UTILS_H
#define TPCC_CLIENT_UTILS_H

#include <stdio.h>
#include <time.h>
#include <dce/rpc.h>
#include <dce/dce_error.h>
#include <encina/encina.h>
#include <stdlib.h>
#include <utils/trace.h>
#include <winsock.h>
#include "mon_client.h"
#include "../include/tpcc_type.h"

extern FILE * errtpcc;
extern FILE *logtpcc;
extern int debug;
extern char log_file_name[];
extern void logprintf( char *format, ...);
extern void err_printf( char *format, ...);
extern void encina_error_message(char *msg, unsigned
long n);
extern int time_diff_ms(struct timeval *t2, struct
timeval *t1);

typedef struct {
    int num;
    int errs;
    double RTtotal[2]; // 1 for server RT and 0 for
client RT
    int RTcount;
} tran_info_t;

/*
 * total_tran_count_t
 *
 * structure that holds the total count of
transaction of each type
 * as well as the reposne times.
 *
 */
typedef struct {
    tran_info_t tran[MAX_TRAN_TYPE + 1];
    int errors;
    double time;
} total_tran_count_t;

/* enc_status_t
 * structure that holds error information
 */
typedef struct {
    int status;
    int line;
    char file[268];
    unsigned long encinaError;
    char errorMsg[ENCINA_MAX_STATUS_STRING_SIZE];
} enc_status_t;

#define FALSE 0
#define TRUE  1

#define DPRINT(args)  if (0) err_printf args


#define CHECK_ENVIRON(str,var)  if (str == NULL) {
fprintf(ERROUT, \
                                "%s environment variable is
not defined.\n",var);  }
#define CHK_STATUS(st, val, _errMsg)
\
     if(st) {
          \
         enc_status.status=val;
\
         strcpy(enc_status.file, __FILE__);
\
         enc_status.line= __LINE__;
\
         enc_status.encinaError = st;
          \
         if(_errMsg)strcpy(enc_status.errorMsg,
_errMsg);       \
         if(st!=1) return;
          \
      }

#define UTIL_IDENT(a)           a

#if        ENCINA_C_ANSI_STRING_TOKEN_SUPPORT
#define UTIL_STRING(a)          # a
#define UTIL_CONCAT(a, b)       a ## b
#else   /* ENCINA_C_ANSI_STRING_TOKEN_SUPPORT */
#define UTIL_STRING(a)          "a"
#define UTIL_CONCAT(a, b)       UTIL_IDENT(a)b
#endif  /* ENCINA_C_ANSI_STRING_TOKEN_SUPPORT */

/*  ENCINA_CALL:  Make fail-fast calls on the various
services.  */
#define ENCINA_CALL(proc_name,call)             \
{                                               \
    unsigned long _status;                      \
    ENCINA_CALL_RC(proc_name,call,_status);     \
    if (_status) exit_program(_status);         \
}


#define ENCINA_CALL_RC(proc_name,call,rc)
\
{
\
    char _errorMsg[ENCINA_MAX_STATUS_STRING_SIZE];
\
    DPRINT(("ENCINA_CALL_RC: before call %s\n",
proc_name));                                \
    rc = (call);
\
    DPRINT(("ENCINA_CALL_RC: after call %s\n",
proc_name));                                        \
    if (rc)  {
\
        encina_StatusToString(rc,
ENCINA_MAX_STATUS_STRING_SIZE,        \
                              _errorMsg);
\
        err_printf( "%x \n", rc);
\
        err_printf( "%s \n", _errorMsg);
\
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        err_printf( "%s \n", proc_name);
\
    }
\
}

void err_printf(char *format, ...);
void encina_error_message(char *msg, unsigned long
n);
int get_time_init();
int get_local_time(time_type *timeP);
int time_diff_ms(struct timeval *t2, struct timeval
*t1);

#endif /*  TPCC_CLIENT_UTILS_H  */
```

databuf.h

```
/*
 *     databuf.h
 *
 * $Revision: 1.1 $
 * $Date: 1998/11/06 21:10:11 $
 * $Log:  databuf.h,v $
 * Revision 4.2  95/05/16  10:55:31  10:55:31  tpcc
(TPCC Benchmark)
 * Added necessary RCS ident strings
 *
 * Revision 4.1  95/05/09  15:21:02  15:21:02  strue
(Scott Truesdale)
 * New code from Transarc - initial version
 *
 * Revision 3.2  95/04/03  17:43:09  17:43:09  strue
(Scott Truesdale)
 * Changes from Transarc - added sql error handling
in client; cleaned up debug handling with macros;
added check on db paramters via call to server.
 *
 * Revision 3.1  95/04/03  15:10:30  15:10:30  strue
(Scott Truesdale)
 * Base of rev 3 - shipped to transarc
 *
 *
 *
 *
 *  $TALog: databuf.h,v $
 * Revision 1.1  1998/11/06  21:10:11  dongfeng
 * - Move all files common to client and server to
tpcc/common
 *   directory
 * [added by delta dongfeng-23677-TPCC-new-directory-
structures, r1.1]
 *
 * Revision 1.3  1998/10/22  15:33:04  wenjian
 * Make changes to Encina server code to connect with
SQL server and add
 * callsql.c and sql directory.
 *
 * Add ERR_BAD_ITEM_ID, which is returned by SLQnew
and same as INVALID_NEWO
 * [from r1.2 by delta wenjian-23529-TPCC-integrate-
with-SQL-server, r1.1]
 *
 * Revision 1.2  1998/01/23  15:07:47  oz
 * - Updated the SP TPCC directory to the latest
files used
 *   during the SP tpcc audit.
 * [from r1.1 by delta oz-20774-TPCC-update-to-
latest-SP-version-11-27, r1.1]
 *
 * Revision 1.1  1997/04/20  11:57:57  oz
 * - This is the code base modified at IBM
Poughkeepsie
 *   by Ofer Zajicek and Radha Sivaramakrishnan for
the
 *   SP scaling test for TPCC.
 * [added by delta oz-19782-TPCC-add-ibm-sp-code,
r1.1]
 *
 * Revision 1.31  1995/10/30  19:10:54  oz
 * [merge of changes from 1.29 to 1.30 into 1.27]
 *
 * Revision 1.30  1995/10/27  15:41:30  oz
 * - Modified the tpc-c code to work with the new
informix
 *   sql code that is in ex_trans.ec
 * [from r1.29 by delta oz-16761-TPCC-modify-code-to-
work-with-oracle, r1.1]
 *
 * Revision 1.27  1995/10/20  18:44:30  ctipper
 * [merge of changes from 1.17 to 1.25 into 1.22]
 *
 * Revision 1.25  1995/10/20  18:15:34  ctipper
 * Incorporate changes per code review.
 *
 * - add DISTRIBUTED_TRAN_FAILED,
TPCC_DB_INFO_PARTIAL, and
 * TPCC_DB_INFO_FAILED error codes to tpcc_rc_t
 * - got rid of MAX_NUM_SERVERS variables
 * [from r1.23 by delta ctipper-16547-TPCC-more-
distributed-trans, r1.2]
 *
 * Revision 1.23  1995/10/13  17:00:26  ctipper
 * This delta encompasses all changes necessary to do
distributed, XA
 * transactions with the TPCC benchmark. This
includes the changes
 * necessary to build with Informix version 6.
 *
 * Each client still talks to only one server,
however, if a distributed
 * transaction is necessary, the client sends the
request to a different
 * interface of that server which then forwards all
or part of the
 * request on to the appropriate remote server.
 *
 * - added new error codes to the tpcc_rc_t
enumeration.
 * - defined MAX_NUM_SERVERS to be 10
 * [from r1.19 by delta ctipper-16547-TPCC-more-
distributed-trans, r1.1]
 *
 * Revision 1.19  1995/09/20  21:02:39  oz
 * -Corrected code for the payment transaction
 * - The distributed case now no longer uses
 *   stored procedures
 * [from r1.18 by delta oz-16547-TPCC-add-
distributed-transactions, r1.2]
 *
 * Revision 1.18  1995/09/20  17:51:10  oz
 * - Added distributed transactions for the new order
and
 *   payment transaction
 *
 * - Added new error codes
 * [from r1.17 by delta oz-16547-TPCC-add-
distributed-transactions, r1.1]
 *
 * Revision 1.22  1995/10/02  20:31:07  oz
 * - Corrected definition of ERROR()
 * [from r1.21 by delta oz-16638-tpcc-modify-
terminal-for-RTE, r1.3]
 *
 * Revision 1.21  1995/10/02  18:51:45  oz
 * - Added definitions needed for utils.c and
liberty.c
 * [from r1.20 by delta oz-16638-tpcc-modify-
terminal-for-RTE, r1.2]
 *
 * Revision 1.20  1995/10/02  15:52:35  oz
 * - Modified the TPC-C benchmark to be compatible
with the RTE.
 * - There are now 3 terminal processes:
 *     emulator: the old terminal process with a
built in
 *               simple emulator
 *     curses: An interactive terminal process using
curses
 *     liberty: An interactive terminal process to be
used with
 *              the RTE compatible with the liberty
freedom terminal.
 *
 * - Define TRUE and FALSE only if they are not
already defined.
 *   (curses.h defines TRUE)
 * - Removed READ_TO_DATE and YEAR_TO_SECOND
 * - Added term_type_t
 * - Added
 *        GOOD_INPUT (0)
 *        WRONG_INPUT (10)
 * [from r1.17 by delta oz-16638-tpcc-modify-
terminal-for-RTE, r1.1]
 *
 * Revision 1.17  1995/07/28  15:28:23  oz
 * - Added a -null and -no_marshalling option to TPCC
 *
 * - Added INVALID_TRAN_TYPE return code
 * [from r1.16 by delta oz-16070-TPCC-add-null-and-
marshalling-test, r1.1]
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
 *
 * Revision 1.16  1995/07/18  17:02:38  oz
 * - Added a DCE_ERROR error code
 * [from r1.15 by delta oz-15938-TPCC-add-dce-only-
client, r1.1]
 *
 * Revision 1.15  1995/05/22  19:50:48  shl
 * [merge of changes from 1.12 to 1.13 into 1.14]
 *
 * Revision 1.13  1995/05/18  15:11:27  oz
 * [from r1.12 by delta oz-15290-TPCC-incorporate-hp-
drop-of-05-16-95, r1.1]
 *
 * Revision 1.14  1995/05/22  17:26:35  ctipper
 * [merge of changes from 1.5 to 1.9 into 1.11]
 *
 * [*** log entries omitted ***]
 *
 */

#ifndef __TPCC_DATABUF_H__
#define __TPCC_DATABUF_H__

#define I_NAME_LEN      24
#define I_DATA          50
#define W_NAME_LEN      10
#define ADDR_LEN        20
#define STATE_LEN       2
#define ZIP_LEN         9
#define DIST_INFO_LEN   24
#define S_DATA_LEN      50
#define D_NAME_LEN      10
#define H_DATA_LEN      24
#define CARRIER_LEN     2
#define C_LAST_LEN            17
#define C_MID_LEN       2
#define PHONE_LEN       16
#define CREDIT_LEN      2
#define C_DATA_LEN     500
#define BC_DTA_LEN  23

#define YEAR_TO_DATE   1
#define YEAR_TO_SECOND 2

#define ERROR(x) fprintf(stderr,"Error:
%s\n",#x),exit(11)

#define MAX_STR_LEN     255
#define MAX_OL                15

#ifndef TRUE
#define TRUE    1
#endif
#ifndef FALSE
#define FALSE   0
#endif

#define CANCEL             -1

#define DATETIME_LEN    19
```

```
#define D_PER_W         10

#define COLLECTOR   1                   /* ctipper
5/3/95 */

#define ERR_BAD_ITEM_ID  1  /* copied from sql/tpcc.h
*/
#define RPC_ERROR               -2
#define SUCCESS_CODE                     0

#define CHAR_NULL       '\0'            /* strue
1/23/95 */

typedef enum {
    liberty_term,
    curses_term,
    emulator_term
} term_type_t;

typedef enum {
    GOOD_INPUT = 0,

    SQL_ERROR = 2,
    DCE_ERROR = 4,
    NO_SUCH_LAST_NAME = 5,
    INVALID_TRAN_TYPE = 6,
    INVALID_HANDLE = 7,

    WRONG_INPUT = 10,

    DISTRIBUTED_TRAN_FAILED = 15,

    TPCC_DB_INFO_PARTIAL = 20,
    TPCC_DB_INFO_FAILED,

    TPCC_ERROR_BEGIN_NEWO = 110,

    TPCC_ERROR_DECL_NEWO_SEL_ITEM,
    TPCC_ERROR_OPEN_NEWO_SEL_ITEM,
    TPCC_ERROR_OPEN_DIST_NEWO_SEL_ITEM,
    TPCC_ERROR_FETCH_NEWO_SEL_ITEM,
    TPCC_ERROR_FETCH_DIST_NEWO_SEL_ITEM,
    TPCC_ERROR_PREP_NEWO_SEL_STCK,
    TPCC_ERROR_DECL_NEWO_SEL_STCK,
    TPCC_ERROR_OPEN_NEWO_SEL_STCK,
    TPCC_ERROR_OPEN_DIST_NEWO_SEL_STCK,
    TPCC_ERROR_FETCH_NEWO_SEL_STCK,
    TPCC_ERROR_FETCH_DIST_NEWO_SEL_STCK,
    TPCC_ERROR_NEWO_SELECT,
    TPCC_ERROR_NEWO_UPD_STCK,
    TPCC_ERROR_DIST_NEWO_UPD_STCK,
    TPCC_ERROR_NEWO_SELECT_2,
    TPCC_ERROR_DECL_NEWO_SEL_CUST,
    TPCC_ERROR_OPEN_NEWO_SEL_CUST,
    TPCC_ERROR_OPEN_DIST_NEWO_SEL_CUST,
    TPCC_ERROR_FETCH_NEWO_SEL_CUST,
    TPCC_ERROR_FETCH_DIST_NEWO_SEL_CUST,
    TPCC_ERROR_DECL_NEWO_SEL_DIST,
    TPCC_ERROR_OPEN_NEWO_SEL_DIST,
    TPCC_ERROR_OPEN_DIST_NEWO_SEL_DIST,
    TPCC_ERROR_FETCH_NEWO_SEL_DIST,
```

```
    TPCC_ERROR_FETCH_DIST_NEWO_SEL_DIST,
    TPCC_ERROR_PREP_NEWO_INS_OL,
    TPCC_ERROR_DECL_NEWO_INS_OL,
    TPCC_ERROR_OPEN_NEWO_INS_OL,
    TPCC_ERROR_OPEN_DIST_NEWO_INS_OL,
    TPCC_ERROR_PUT_NEWO_INS_OL,
    TPCC_ERROR_PUT_DIST_NEWO_INS_OL,
    TPCC_ERROR_DECL_NEWO_SEL_WARE,
    TPCC_ERROR_OPEN_NEWO_SEL_WARE,
    TPCC_ERROR_OPEN_DIST_NEWO_SEL_WARE,
    TPCC_ERROR_FETCH_NEWO_SEL_WARE,
    TPCC_ERROR_FETCH_DIST_NEWO_SEL_WARE,
    TPCC_ERROR_EXECUTE_NEWO_UPD_INS,
    TPCC_ERROR_UPDATE_NEWO_NEXT_OID,
    TPCC_ERROR_PREP_NEWO_INS,
    TPCC_ERROR_EXECUTE_DIST_NEWO_INS,
    TPCC_ERROR_EXECUTE_NEWO_COMMIT,
    TPCC_ERROR_ROLLBACK_NEWO,
    TPCC_ERROR_REMOTE_OL_SELECT,
    TPCC_ERROR_REMOTE_OL_UPDATE,

    TPCC_ERROR_OPEN_ORDS_CNT_CID = 200,
    TPCC_ERROR_FETCH_ORDS_CNT_CID,
    TPCC_ERROR_OPEN_ORDS_SEL_CLAST,
    TPCC_ERROR_FETCH_ORDS_SEL_CLAST,
    TPCC_ERROR_OPEN_ORDS_SEL_CID,
    TPCC_ERROR_FETCH_ORDS_SEL_CID,
    TPCC_ERROR_OPEN_ORDS_SEL_OLDORD,
    TPCC_ERROR_FETCH_ORDS_OLDORD,
    TPCC_ERROR_OPEN_ORDS_SEL_OL,
    TPCC_ERROR_FETCH_ORDS_SEL_OL,
    TPCC_ERROR_EXECUTE_ORDS_COMMIT,

    TPCC_ERROR_OPEN_DELIVERY_OLDEST_OID = 300,
    TPCC_ERROR_FETCH_DELIVERY_OLDEST_OID,
    TPCC_ERROR_EXECUTE_DELIVERY_COMMIT,
    TPCC_ERROR_OPEN_DELIVERY_SEL_ORD,
    TPCC_ERROR_FETCH_DELIVERY_SEL_ORD,
    TPCC_ERROR_OPEN_DELIVERY_SEL_SUM_OL,
    TPCC_ERROR_FETCH_DELIVERY_SEL_SUM_OL,
    TPCC_ERROR_EXECUTE_DELIVERY_EXEC_DVRY,
    TPCC_ERROR_SELECT_DELIVERY_ORDER_ID,
    TPCC_ERROR_SELECT_DELIVERY_CARRIER_ID,
    TPCC_ERROR_SELECT_DELIVERY_BALANCE,

    TPCC_ERROR_OPEN_STOCKLEVEL_SEL_OID = 400,
    TPCC_ERROR_FETCH_STOCKLEVEL_SEL_OID,
    TPCC_ERROR_OPEN_STOCKLEVEL_CNT_SID,
    TPCC_ERROR_FETCH_STOCKLEVEL_CNT_SID,
    TPCC_ERROR_OPEN_STOCKLEVEL_FIND,
    TPCC_ERROR_FETCH_STOCKLEVEL_FIND,
    TPCC_ERROR_EXECUTE_STOCKLEVEL_COMMIT,

    TPCC_ERROR_OPEN_PAYMENT_CNT_CID = 500,
    TPCC_ERROR_FETCH_PAYMENT_CNT_CID,
    TPCC_ERROR_OPEN_PAYMENT_SEL_CLAST,
    TPCC_ERROR_FETCH_PAYMENT_SEL_CLAST,
    TPCC_ERROR_OPEN_PAYMENT_SEL_CID,
    TPCC_ERROR_FETCH_PAYMENT_SEL_CID,
    TPCC_ERROR_DECL_PAYMENT_SEL_DIST,
    TPCC_ERROR_OPEN_PAYMENT_SEL_DIST,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    TPCC_ERROR_OPEN_DIST_PAYMENT_SEL_DIST,
    TPCC_ERROR_FETCH_PAYMENT_SEL_DIST,
    TPCC_ERROR_FETCH_DIST_PAYMENT_SEL_DIST,
    TPCC_ERROR_DECL_PAYMENT_SEL_WARE,
    TPCC_ERROR_OPEN_PAYMENT_SEL_WARE,
    TPCC_ERROR_OPEN_DIST_PAYMENT_SEL_WARE,
    TPCC_ERROR_FETCH_PAYMENT_SEL_WARE,
    TPCC_ERROR_FETCH_DIST_PAYMENT_SEL_WARE,
    TPCC_ERROR_EXECUTE_PAYMENT_UPD_CUST_LAST,
    TPCC_ERROR_EXECUTE_PAYMENT_UPD_CUST_ID,
    TPCC_ERROR_COMMIT_PAYMENT_UPD_CUST,
    TPCC_ERROR_SELECT_PAYMENT_W_YTD,
    TPCC_ERROR_SELECT_PAYMENT_D_YTD,
    TPCC_ERROR_BEGIN_PAYMENT,
    TPCC_ERROR_EXECUTE_PAYMENT_COMMIT,
    TPCC_ERROR_PAYMENT_UPD_CUST_BY_NAME,
    TPCC_ERROR_PAYMENT_UPD_CUST_BY_ID,
    TPCC_ERROR_PAYMENT_UPDATE_DIST,
    TPCC_ERROR_PAYMENT_UPDATE_WH,
    TPCC_ERROR_PAYMENT_INSERT_HISTORY,
    TPCC_ERROR_EXECUTE_PAYMENT_WH_DIST

} tpcc_rc_t;

typedef enum {
    TPCC_DEADLOCK_MSG = 10,
    TPCC_RETRY_MSG
} tpcc_msg_t;

#endif /* __TPCC_DATABUF_H__ */
```

delivery.h

```
#ifndef TRANSARC_delivery_h
#define TRANSARC_delivery_h

#include <trpc/trpc.h>
#include "_delivery.h"

#include <encina/c_prologue.h>

#if defined(BUILDDLL)
#define DLLEXPORT __declspec( dllexport )
#else
#define DLLEXPORT extern
#endif

#ifndef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define delivery_v1_0_c_ifspec
          _delivery_v1_0_c_ifspec
#define delivery_v1_0_s_ifspec
          _delivery_v1_0_s_ifspec

typedef struct delivery_v1_0_epv {
void (ENCINA_STUB_CALLING *impTPCCDelivery) (
#ifdef IDL_PROTOTYPES
                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

} delivery_v1_0_epv_t;

DLLEXPORT void ENCINA_STUB_CALLING impTPCCDelivery (
#ifdef IDL_PROTOTYPES

                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

extern delivery_v1_0_epv_t
          delivery_v1_0_client_epv;
extern _delivery_v1_0_epv_t
          delivery_v1_0_manager_epv;
extern rpc_mgr_epv_t
          delivery_v1_0_mgr_epv;

#include <encina/c_epilogue.h>
#endif /* TRANSARC_delivery_h */
```

dlldata.c

```
/*********************************************************
*****
   DllData file -- generated by MIDL compiler

        DO NOT ALTER THIS FILE

   This file is regenerated by MIDL on every IDL file
compile.

   To completely reconstruct this file, delete it and
rerun MIDL
   on all the IDL files in this DLL, specifying this
file for the
   /dlldata command line option

*********************************************************
****/


#include <rpcproxy.h>

#ifdef __cplusplus
extern "C"   {
#endif

EXTERN_PROXY_FILE( tpcc_com_ps )


PROXYFILE_LIST_START
/* Start of list */
  REFERENCE_PROXY_FILE( tpcc_com_ps ),
/* End of list */
PROXYFILE_LIST_END


DLLDATA_ROUTINES( aProxyFileList, GET_DLL_CLSID )

#ifdef __cplusplus
}  /*extern "C" */
#endif

/* end of generated dlldata file */
```

install.c

```
/*        FILE:                INSTALL.C
 *                                          Microsoft
TPC-C Kit Ver. 4.51.000
 *                                          Copyright
Microsoft, 2003
 *             All Rights Reserved
 *
 *                                          not audited
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
 *
 *        PURPOSE:  Automated installation
application for TPC-C Web Kit
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                  4.20.000 - added COM installation
steps
 *      4.50.000 - added IIS6 configuration options
 *                  4.51.000 - added routines to copy
Visual Studio runtime module (MSVCR70.DLL)
 *                                      to
SystemRoot\System32
 */

#include <windows.h>
#include <direct.h>
#include <io.h>
#include <stdlib.h>
#include <stdio.h>
#include <commctrl.h>
#include "..\..\common\src\ReadRegistry.h"
#include <process.h>

#include "resource.h"

#define   WM_INITTEXT                   WM_USER+100

HICON               hIcon;
HINSTANCE hInst;

DWORD                           versionExeMS;
DWORD                           versionExeLS;
DWORD                           versionExeMM;
DWORD                           versionDllMS;
DWORD                           versionDllLS;

// TPC-C registry settings
TPCCREGISTRYDATA    Reg;

static    int                   iPoolThreadLimit;
static    int                   iMaxPoolThreads;
static    int                   iThreadTimeout;
static    int                   iListenBackLog;
static    int                   iAcceptExOutstanding;
static    int                   iUriEnableCache;
static    int                   iUriScavengerPeriod;
static    int                   iMaxConnections;

static    int                   iIISMajorVersion;
static    int                   iNumberOfProcessors;

static    int                   iMaxPhysicalMemory;
          //max physical memory in MB
static    char      szLastFileName[64];           //
last file we worked on (for error reporting)


BOOL      CALLBACK  LicenseDlgProc(HWND hwnd, UINT
uMsg, WPARAM wParam, LPARAM lParam);
BOOL      CALLBACK  UpdatedDlgProc(HWND hwnd, UINT
uMsg, WPARAM wParam, LPARAM lParam);
BOOL      CALLBACK  MainDlgProc(HWND hwnd, UINT uMsg,
WPARAM wParam, LPARAM lParam);
BOOL      CALLBACK  CopyDlgProc(HWND hwnd, UINT uMsg,
WPARAM wParam, LPARAM lParam);
static    void                  ProcessOK(HWND hwnd,
char *szDllPath, char *szWindowsPath);
static    void
          ReadRegistrySettings(void);
static    void
          WriteRegistrySettings(char *szDllPath);
static    BOOL                  RegisterDLL(char
*szFileName);
static    int
          CopyFiles(HWND hDlg, char *szDllPath, char
*szWindowsPath);
static    BOOL                  GetInstallPath(char
*szDllPath);
static    BOOL
          GetWindowsInstallPath(char *szWindowsPath);
static    void                  GetVersionInfo(char
*szDLLPath, char *szExePath);
static    BOOL
          CheckWWWebService(void);
static    BOOL
          StartWWWebService(void);
static    BOOL                  StopWWWebService(void);
static    void                  UpdateDialog(HWND
hDlg);
static    void                  ConfigureIIS6(HWND
hwnd, HWND hDlg);

SYSTEM_INFO siSysInfo;

BOOL install_com(char *szDllPath);

#include "..\..\common\src\ReadRegistry.cpp"

int WINAPI WinMain( HINSTANCE hInstance, HINSTANCE
hPrevInstance, LPSTR lpCmdLine, int nCmdShow )
{
          int iRc;

          hInst = hInstance;

          InitCommonControls();

          hIcon = LoadIcon(hInstance,
MAKEINTRESOURCE(IDI_ICON1));

          iRc = DialogBox(hInstance,
MAKEINTRESOURCE(IDD_DIALOG4), GetDesktopWindow(),
LicenseDlgProc);
          if ( iRc )
          {
                    iRc = DialogBox(hInstance,
MAKEINTRESOURCE(IDD_DIALOG1), GetDesktopWindow(),
MainDlgProc);
                    if ( iRc )
                    {
          DialogBoxParam(hInstance,
MAKEINTRESOURCE(IDD_DIALOG2), GetDesktopWindow(),
UpdatedDlgProc, (LPARAM)iRc);
                    }
          }

          DestroyIcon(hIcon);
          return 0;
}

BOOL CALLBACK LicenseDlgProc(HWND hwnd, UINT uMsg,
WPARAM wParam, LPARAM lParam)
{
          HGLOBAL                       hRes;
          HRSRC                         hResInfo;
          BYTE                          *pSrc, *pDst;
          DWORD                         dwSize;
          static HFONT        hFont;

          switch(uMsg)
          {
                    case WM_INITDIALOG:
                              hFont = CreateFont(-12,
0, 0, 0, 400, 0, 0, 0, 0, 0, 0, 0, "Arial");
                              SendMessage(
GetDlgItem(hwnd, IDR_LICENSE1), WM_SETFONT,
(WPARAM)hFont, MAKELPARAM(0, 0) );
                              PostMessage(hwnd,
WM_INITTEXT, (WPARAM)0, (LPARAM)0);
                              return TRUE;
                    case WM_INITTEXT:
                              hResInfo =
FindResource(hInst, MAKEINTRESOURCE(IDR_LICENSE1),
"LICENSE");
                              dwSize =
SizeofResource(hInst, hResInfo);
                              hRes =
LoadResource(hInst, hResInfo );
                              pSrc = (BYTE
*)LockResource(hRes);
                              pDst = (unsigned char
*)malloc(dwSize+1);
                              if ( pDst )
                              {
                                        memcpy(pDst,
pSrc, dwSize);
                                        pDst[dwSize]
= 0;
          SetDlgItemText(hwnd, IDC_LICENSE, (const
char *)pDst);
                                        free(pDst);
                              }
                              else

          SetDlgItemText(hwnd, IDC_LICENSE, (const
char *)pSrc);
                              return TRUE;
                    case WM_DESTROY:
                              DeleteObject(hFont);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        return TRUE;
                case WM_COMMAND:
                        if ( wParam == IDOK )

        EndDialog(hwnd, TRUE);
                        if ( wParam == IDCANCEL
)

        EndDialog(hwnd, FALSE);
                default:
                        break;
        }
        return FALSE;
}

BOOL CALLBACK UpdatedDlgProc(HWND hwnd, UINT uMsg,
WPARAM wParam, LPARAM lParam)
{
        switch(uMsg)
        {
                case WM_INITDIALOG:
                        switch(lParam)
                        {
                                case 1:
                                case 2:

        SetDlgItemText(hwnd, IDC_RESULTS, "TPC-C
Web Client Installed");

        break;
                        }
                        return TRUE;
                case WM_COMMAND:
                        if ( wParam == IDOK )

        EndDialog(hwnd, TRUE);
                        break;
                default:
                        break;
        }
        return FALSE;
}

BOOL CALLBACK MainDlgProc(HWND hwnd, UINT uMsg,
WPARAM wParam, LPARAM lParam)
{
        PAINTSTRUCT                 ps;
        MEMORYSTATUS        memoryStatus;
        OSVERSIONINFO       VI;
        char                        szTmp[256];
        static char
        szDllPath[256];
        static char
        szWindowsPath[256];
        static char
        szExePath[256];

        switch(uMsg)
        {
                case WM_INITDIALOG:

        GlobalMemoryStatus(&memoryStatus);
                        iMaxPhysicalMemory  =
(memoryStatus.dwTotalPhys/ 1048576);

                        if (
GetWindowsInstallPath(szWindowsPath) )
                        {

        MessageBox(hwnd, "Error: Cannot determine
Windows System Root.", NULL, MB_ICONSTOP | MB_OK);

        EndDialog(hwnd, FALSE);
                                return TRUE;
                        }

                        if (
GetInstallPath(szDllPath) )
                        {

        MessageBox(hwnd, "Error internet service
inetsrv is not installed.", NULL, MB_ICONSTOP |
MB_OK);

        EndDialog(hwnd, FALSE);
                                return TRUE;
                        }

                        // set default values
                        ZeroMemory( &Reg,
sizeof(Reg) );

        Reg.dwNumberOfDeliveryThreads = 4;
                        Reg.dwMaxConnections =
100;

        Reg.dwMaxPendingDeliveries    = 100;
                        Reg.eDB_Protocol =
DBLIB;
                        Reg.eTxnMon = None;
                        strcpy(Reg.szDbServer,
                "");
                        strcpy(Reg.szDbName,
                "tpcc");
                        strcpy(Reg.szDbUser,
                "sa");

        strcpy(Reg.szDbPassword,      "");

                        iPoolThreadLimit =
iMaxPhysicalMemory * 2;
                        iThreadTimeout = 86400;
                        iListenBackLog = 15;
                        iAcceptExOutstanding =
40;


        ReadTPCCRegistrySettings( &Reg );
                        ReadRegistrySettings();

                        // copy the hardware
information to the SYSTEM_INFO structure

        GetSystemInfo(&siSysInfo);
                        // store the number of
processors on this system
                        iNumberOfProcessors =
siSysInfo.dwNumberOfProcessors;


        GetModuleFileName(hInst, szExePath,
sizeof(szExePath));

        GetVersionInfo(szDllPath, szExePath);

                        wsprintf(szTmp,
"Version %d.%2.2d.%3.3d", versionExeMS, versionExeMM,
versionExeLS);
                        SetDlgItemText(hwnd,
IDC_VERSION, szTmp);

                        SetDlgItemText(hwnd,
IDC_PATH, szDllPath);

                        SetDlgItemText(hwnd,
ED_DB_SERVER, Reg.szDbServer);
                        SetDlgItemText(hwnd,
ED_DB_USER_ID, Reg.szDbUser);
                        SetDlgItemText(hwnd,
ED_DB_PASSWORD, Reg.szDbPassword);
                        SetDlgItemText(hwnd,
ED_DB_NAME, Reg.szDbName);

                        SetDlgItemInt(hwnd,
ED_THREADS, Reg.dwNumberOfDeliveryThreads, FALSE);
                        SetDlgItemInt(hwnd,
ED_MAXCONNECTION, Reg.dwMaxConnections, FALSE);
                        SetDlgItemInt(hwnd,
ED_MAXDELIVERIES, Reg.dwMaxPendingDeliveries, FALSE);
                        SetDlgItemInt(hwnd,
ED_IIS_MAX_THEAD_POOL_LIMIT, iPoolThreadLimit,
FALSE);
                        SetDlgItemInt(hwnd,
ED_IIS_THREAD_TIMEOUT, iThreadTimeout, FALSE);
                        SetDlgItemInt(hwnd,
ED_IIS_LISTEN_BACKLOG, iListenBackLog, FALSE);
                        SetDlgItemInt(hwnd,
ED_WEB_SERVICE_BACKLOG_QUEUE_SIZE,
iAcceptExOutstanding, FALSE);

                        CheckDlgButton(hwnd,
IDC_DBLIB, 0);
                        CheckDlgButton(hwnd,
IDC_ODBC,  0);
                        if ( Reg.eDB_Protocol
== DBLIB )

        CheckDlgButton(hwnd, IDC_DBLIB, 1);
                        else

        CheckDlgButton(hwnd, IDC_ODBC,  1);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                // check OS version
level for COM.  Must be at least Windows 2000
                                VI.dwOSVersionInfoSize
= sizeof(VI);
                                GetVersionEx( &VI );
                                if (VI.dwMajorVersion <
5)
                                {
                                        HWND hDlg =
GetDlgItem( hwnd, IDC_TM_MTS );
                                        EnableWindow(
hDlg, 0 );          // disable COM option
                                        if
(Reg.eTxnMon == COM)

          Reg.eTxnMon = None;
                                }

                                CheckDlgButton(hwnd,
IDC_TM_NONE,   0);
                                CheckDlgButton(hwnd,
IDC_TM_TUXEDO, 0);
                                CheckDlgButton(hwnd,
IDC_TM_MTS,    0);
                                CheckDlgButton(hwnd,
IDC_TM_ENCINA,      0);
                                switch (Reg.eTxnMon)
                                {
                                case None:

          CheckDlgButton(hwnd, IDC_TM_NONE,   1);
                                        break;
                                case TUXEDO:

          CheckDlgButton(hwnd, IDC_TM_TUXEDO, 1);
                                        break;
                                case ENCINA:

          CheckDlgButton(hwnd, IDC_TM_ENCINA, 1);
                                        break;
                                case COM:

          CheckDlgButton(hwnd, IDC_TM_MTS,        1);
                                        break;
                                }

                                return TRUE;
                        case WM_PAINT:
                                if ( IsIconic(hwnd) )
                                {

          BeginPaint(hwnd, &ps);

          DrawIcon(ps.hdc, 0, 0, hIcon);

          EndPaint(hwnd, &ps);
                                        return TRUE;
                                }
                                break;
                        case WM_COMMAND:
                                if ( HIWORD(wParam) ==
BN_CLICKED )
                                {
                                        switch(
LOWORD(wParam) )
                                        {

          case IDC_DBLIB:

          return TRUE;

          case IDC_ODBC:

          return TRUE;

          case IDOK:

          ProcessOK(hwnd, szDllPath, szWindowsPath);

          return TRUE;

          case IDCANCEL:

          EndDialog(hwnd, FALSE);

          return TRUE;

          default:

          return FALSE;
                                        }
                                }
                                break;
                        default:
                                break;
          }
          return FALSE;
}

static void ProcessOK(HWND hwnd, char *szDllPath,
char *szWindowsPath)
{
          int             d;
          HWND      hDlg;
          int             rc;
          BOOL      bSvcRunning;

          char      szFullName[256];
          char      szErrTxt[128];

          // read settings from dialog
          Reg.dwNumberOfDeliveryThreads  =
GetDlgItemInt(hwnd, ED_THREADS, &d, FALSE);
          Reg.dwMaxConnections = GetDlgItemInt(hwnd,
ED_MAXCONNECTION, &d, FALSE);
          Reg.dwMaxPendingDeliveries =
GetDlgItemInt(hwnd, ED_MAXDELIVERIES, &d, FALSE);

          GetDlgItemText(hwnd, ED_DB_SERVER,
Reg.szDbServer, sizeof(Reg.szDbServer));
          GetDlgItemText(hwnd, ED_DB_USER_ID,
Reg.szDbUser, sizeof(Reg.szDbUser));
          GetDlgItemText(hwnd, ED_DB_PASSWORD,
Reg.szDbPassword, sizeof(Reg.szDbPassword));
          GetDlgItemText(hwnd, ED_DB_NAME,
Reg.szDbName, sizeof(Reg.szDbName));

          if ( IsDlgButtonChecked(hwnd, IDC_DBLIB) )
          {
                    Reg.eDB_Protocol = DBLIB;
                    rc = 1;
          }
          else if ( IsDlgButtonChecked(hwnd,
IDC_ODBC) )
          {
                    Reg.eDB_Protocol = ODBC;
                    rc = 2;
          }

          if ( IsDlgButtonChecked(hwnd, IDC_TM_NONE)
)
                    Reg.eTxnMon = None;
          else if ( IsDlgButtonChecked(hwnd,
IDC_TM_TUXEDO) )
                    Reg.eTxnMon = TUXEDO;
          else if ( IsDlgButtonChecked(hwnd,
IDC_TM_MTS) )
                    Reg.eTxnMon = COM;
          else if ( IsDlgButtonChecked(hwnd,
IDC_TM_ENCINA) )
                    Reg.eTxnMon = ENCINA;

          iPoolThreadLimit = GetDlgItemInt(hwnd,
ED_IIS_MAX_THEAD_POOL_LIMIT, &d, FALSE);
          iThreadTimeout = GetDlgItemInt(hwnd,
ED_IIS_THREAD_TIMEOUT,        &d, FALSE);
          iListenBackLog = GetDlgItemInt(hwnd,
ED_IIS_LISTEN_BACKLOG, &d, FALSE);
          iAcceptExOutstanding = GetDlgItemInt(hwnd,
ED_WEB_SERVICE_BACKLOG_QUEUE_SIZE, &d, FALSE);


          ShowWindow(hwnd, SW_HIDE);
          hDlg = CreateDialog(hInst,
MAKEINTRESOURCE(IDD_DIALOG3), hwnd, CopyDlgProc);
          ShowWindow(hDlg, SW_SHOWNA);
          UpdateDialog(hDlg);

          // check to see if the web services are
running
          bSvcRunning = CheckWWWebService();
          if ( bSvcRunning )
          {
                    SetDlgItemText(hDlg, IDC_STATUS,
"Stopping Web Service.");
                    SendDlgItemMessage(hDlg,
IDC_PROGRESS1, PBM_STEPIT, 0, 0);
                    UpdateDialog(hDlg);

                    StopWWWebService();
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    SendDlgItemMessage(hDlg,
IDC_PROGRESS1, PBM_STEPIT, 0, 0);
                    UpdateDialog(hDlg);
          }

          // write binaries to inetpub\wwwroot
          rc = CopyFiles(hDlg, szDllPath,
szWindowsPath);
          if ( !rc )
          {
                    ShowWindow(hwnd, SW_SHOWNA);
                    DestroyWindow(hDlg);
                    strcpy( szErrTxt, "Error(s)
occured when creating " );
                    strcat( szErrTxt, szLastFileName
);
                    MessageBox(hwnd, szErrTxt, NULL,
MB_ICONSTOP | MB_OK);
                    EndDialog(hwnd, 0);
                    return;
          }

          // while we have the web services shutdown,
check to see if this
          // is IIS6.  If it is, then call
ConfigureIIS6
          if ( iIISMajorVersion == 6)
          {
                    ConfigureIIS6(hwnd, hDlg);
          }

          //if we stopped service restart it.
          if ( bSvcRunning )
          {
                    SetDlgItemText(hDlg, IDC_STATUS,
"Starting Web Service.");
                    SendDlgItemMessage(hDlg,
IDC_PROGRESS1, PBM_STEPIT, 0, 0);
                    UpdateDialog(hDlg);
                    StartWWWebService();
          }

          // update registry
          SetDlgItemText(hDlg, IDC_STATUS, "Updating
Registry.");
          SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
          UpdateDialog(hDlg);
          WriteRegistrySettings(szDllPath);

          // register com proxy stub
          strcpy(szFullName, szDllPath);
          strcat(szFullName, "tpcc_com_ps.dll");
          if (!RegisterDLL(szFullName))
          {
                    ShowWindow(hwnd, SW_SHOWNA);
                    DestroyWindow(hDlg);
                    strcpy( szErrTxt, "Error occured
when registering " );
                    strcat( szErrTxt, szFullName );
                    MessageBox(hwnd, szErrTxt, NULL,
MB_ICONSTOP | MB_OK);
                    EndDialog(hwnd, 0);
                    return;
          }

          // if using COM
          if (Reg.eTxnMon == COM)
          {
                    SetDlgItemText(hDlg, IDC_STATUS,
"Configuring COM.");
                    SendDlgItemMessage(hDlg,
IDC_PROGRESS1, PBM_STEPIT, 0, 0);
                    UpdateDialog(hDlg);

                    if (install_com(szDllPath))
                    {
                              ShowWindow(hwnd,
SW_SHOWNA);
                              DestroyWindow(hDlg);
                              strcpy( szErrTxt,
"Error occured when configuring COM settings." );
                              MessageBox(hwnd,
szErrTxt, NULL, MB_ICONSTOP | MB_OK);
                              EndDialog(hwnd, 0);
                              return;
                    }
          }

          Sleep(100);

          ShowWindow(hwnd, SW_SHOWNA);
          DestroyWindow(hDlg);

          EndDialog(hwnd, rc);
          return;
}

static void ReadRegistrySettings(void)
{
          HKEY      hKey;
          DWORD     size;
          DWORD     type;

          if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SOFTWARE\\Microsoft\\InetStp", 0, KEY_READ, &hKey)
== ERROR_SUCCESS )
          {
                    size = sizeof(iIISMajorVersion);
                    if ( RegQueryValueEx(hKey,
"MajorVersion", 0, &type, (char *)&iIISMajorVersion,
&size) == ERROR_SUCCESS )
                              if ( !iIISMajorVersion
)

          iIISMajorVersion = 5;
          }

          if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SYSTEM\\CurrentControlSet\\Services\\Inetinfo\\Param
eters", 0, KEY_READ, &hKey) == ERROR_SUCCESS )
          {
                    if ( iIISMajorVersion == 6)
                    {
                              // since IIS6 handles
the pool thread parameters differently, we need to
fill in the dialog
                              // with the
MaxPoolThreads rather thatn PoolThreadLimit
                              // for ease of coding,
we are just going to stuff the value into
iPoolThreadLimit
                    size = sizeof(iPoolThreadLimit);
                              if (
RegQueryValueEx(hKey, "MaxPoolThreads", 0, &type,
(char *)&iPoolThreadLimit, &size) == ERROR_SUCCESS )
                              if ( !iPoolThreadLimit
)

          iPoolThreadLimit =  iMaxPhysicalMemory * 2;
                    }
                    else
                    {
                              size =
sizeof(iPoolThreadLimit);
                              if (
RegQueryValueEx(hKey, "MaxPoolThreads", 0, &type,
(char *)&iPoolThreadLimit, &size) == ERROR_SUCCESS )
                              if ( !iPoolThreadLimit
)

          iPoolThreadLimit =  iMaxPhysicalMemory * 2;
                    }

                    size = sizeof(iThreadTimeout);
                    if ( RegQueryValueEx(hKey,
"ThreadTimeout", 0, &type, (char *)&iThreadTimeout,
&size) == ERROR_SUCCESS )
                              if ( !iThreadTimeout )

          iThreadTimeout = 86400;

                    size = sizeof(iListenBackLog);
                    if ( RegQueryValueEx(hKey,
"ListenBackLog", 0, &type, (char *)&iListenBackLog,
&size) == ERROR_SUCCESS )
                              if ( !iListenBackLog )

          iListenBackLog = 15;

                    RegCloseKey(hKey);
          }

          if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SYSTEM\\CurrentControlSet\\Services\\W3SVC\\Paramete
rs", 0, KEY_READ, &hKey) == ERROR_SUCCESS )
          {
                    size =
sizeof(iAcceptExOutstanding);
                    if ( RegQueryValueEx(hKey,
"AcceptExOutstanding", 0, &type, (char
*)&iAcceptExOutstanding, &size) == ERROR_SUCCESS )
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        if (
!iAcceptExOutstanding )

          iAcceptExOutstanding = 40;

                    RegCloseKey(hKey);
          }
          if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SYSTEM\\CurrentControlSet\\Services\\HTTP\\Parameter
s", 0, KEY_READ, &hKey) == ERROR_SUCCESS )
          {
                    size = sizeof(iUriEnableCache);
                    if ( RegQueryValueEx(hKey,
"UriEnableCache", 0, &type, (char *)&iUriEnableCache,
&size) == ERROR_SUCCESS )
                        if ( !iUriEnableCache )

          iUriEnableCache = 0;

                    size =
sizeof(iUriScavengerPeriod);
                    if ( RegQueryValueEx(hKey,
"UriScavengerPeriod", 0, &type, (char
*)&iUriScavengerPeriod, &size) == ERROR_SUCCESS )
                        if (
!iUriScavengerPeriod )

          iUriScavengerPeriod = 10800;

                    size = sizeof(iMaxConnections);
                    if ( RegQueryValueEx(hKey,
"MaxConnections", 0, &type, (char *)&iMaxConnections,
&size) == ERROR_SUCCESS )
                        if ( !iMaxConnections )

          iMaxConnections = 100000;

                    RegCloseKey(hKey);
          }
}


static void WriteRegistrySettings(char *szDllPath)
{
          HKEY      hKey;
          DWORD     dwDisposition;
          char      szTmp[256];
          char      *ptr;
          int                 iRc;

          if ( RegCreateKeyEx(HKEY_LOCAL_MACHINE,
"SOFTWARE\\Microsoft\\TPCC", 0, NULL,
REG_OPTION_NON_VOLATILE, KEY_ALL_ACCESS, NULL, &hKey,
&dwDisposition) == ERROR_SUCCESS )
          {
                    strcpy(szTmp, szDllPath);
                    ptr = strstr(szTmp, "tpcc");
                    if ( ptr )
                        *ptr = 0;

                    RegSetValueEx(hKey, "Path", 0,
REG_SZ, szTmp, strlen(szTmp)+1);

                    RegSetValueEx(hKey,
"NumberOfDeliveryThreads", 0, REG_DWORD, (char
*)&Reg.dwNumberOfDeliveryThreads,
sizeof(Reg.dwNumberOfDeliveryThreads));
                    RegSetValueEx(hKey,
"MaxConnections", 0, REG_DWORD, (char
*)&Reg.dwMaxConnections,
sizeof(Reg.dwMaxConnections));
                    RegSetValueEx(hKey,
"MaxPendingDeliveries", 0, REG_DWORD, (char
*)&Reg.dwMaxPendingDeliveries,
sizeof(Reg.dwMaxPendingDeliveries));

                    RegSetValueEx(hKey,
"DB_Protocol", 0, REG_SZ,
szDBNames[Reg.eDB_Protocol],
strlen(szDBNames[Reg.eDB_Protocol])+1);
                    RegSetValueEx(hKey, "TxnMonitor",
0, REG_SZ, szTxnMonNames[Reg.eTxnMon],
strlen(szTxnMonNames[Reg.eTxnMon])+1);

                    RegSetValueEx(hKey, "DbServer",
0, REG_SZ, Reg.szDbServer, strlen(Reg.szDbServer)+1);
                    RegSetValueEx(hKey, "DbName", 0,
REG_SZ, Reg.szDbName, strlen(Reg.szDbName)+1);
                    RegSetValueEx(hKey, "DbUser", 0,
REG_SZ, Reg.szDbUser, strlen(Reg.szDbUser)+1);
                    RegSetValueEx(hKey, "DbPassword",
0, REG_SZ, Reg.szDbPassword,
strlen(Reg.szDbPassword)+1);

                    strcpy(szTmp, "YES");
                    RegSetValueEx(hKey,
"COM_SinglePool", 0, REG_SZ, szTmp, strlen(szTmp)+1);

                    RegFlushKey(hKey);
                    RegCloseKey(hKey);
          }

          if (
(iRc=RegCreateKeyEx(HKEY_LOCAL_MACHINE,
"SYSTEM\\CurrentControlSet\\Services\\Inetinfo\\Param
eters", 0, NULL, REG_OPTION_NON_VOLATILE,
KEY_ALL_ACCESS, NULL, &hKey, &dwDisposition)) ==
ERROR_SUCCESS )
          {
                    // if this is IIS6, then we need
to treat the PoolThreadLimit differently
                    // if IIS6, then PoolThreadLimit
is the maximum number of threads for the entire
system.
                    // IIS6 added MaxPoolThreads
which controls the number of threads per processor.
For IIS6
                    // we will set MaxPoolThreads to
the value the user proivided in the dialog and then
set
                    // PoolThreadLimit to
MaxPoolThreads * number of processors on this system
                    if ( iIISMajorVersion == 6 )
                    {
                              iMaxPoolThreads =
iPoolThreadLimit;
                              iPoolThreadLimit =
iMaxPoolThreads * iNumberOfProcessors;
                              RegSetValueEx(hKey,
"PoolThreadLimit", 0, REG_DWORD, (char
*)&iPoolThreadLimit, sizeof(iPoolThreadLimit));
                              RegSetValueEx(hKey,
"MaxPoolThreads", 0, REG_DWORD, (char
*)&iMaxPoolThreads, sizeof(iMaxPoolThreads));
                    }
                    else
                    {
                              RegSetValueEx(hKey,
"PoolThreadLimit", 0, REG_DWORD, (char
*)&iPoolThreadLimit, sizeof(iPoolThreadLimit));
                    }

                    RegSetValueEx(hKey,
"ThreadTimeout", 0, REG_DWORD, (char
*)&iThreadTimeout, sizeof(iThreadTimeout));
                    RegSetValueEx(hKey,
"ListenBackLog", 0, REG_DWORD, (char
*)&iListenBackLog, sizeof(iListenBackLog));

                    RegFlushKey(hKey);
                    RegCloseKey(hKey);
          }

          if (
(iRc=RegCreateKeyEx(HKEY_LOCAL_MACHINE,
"SYSTEM\\CurrentControlSet\\Services\\W3SVC\\Paramete
rs", 0, NULL, REG_OPTION_NON_VOLATILE,
KEY_ALL_ACCESS, NULL, &hKey, &dwDisposition)) ==
ERROR_SUCCESS )
          {
                    RegSetValueEx(hKey,
"AcceptExOutstanding", 0, REG_DWORD, (char
*)&iAcceptExOutstanding,
sizeof(iAcceptExOutstanding));

                    RegFlushKey(hKey);
                    RegCloseKey(hKey);
          }

          return;
}

BOOL CALLBACK CopyDlgProc(HWND hwnd, UINT uMsg,
WPARAM wParam, LPARAM lParam)
{
          if ( uMsg == WM_INITDIALOG )
          {
                    SendDlgItemMessage(hwnd,
IDC_PROGRESS1, PBM_SETRANGE, 0, MAKELPARAM(0, 16));
                    SendDlgItemMessage(hwnd,
IDC_PROGRESS1, PBM_SETSTEP, (WPARAM)1, 0);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                return TRUE;
        }
        return FALSE;
}

BOOL RegisterDLL(char *szFileName)
{
        HINSTANCE hLib;
        FARPROC             lpDllEntryPoint;

        hLib = LoadLibrary(szFileName);
        if ( hLib == NULL )
                return FALSE;
        // Find the entry point.
        lpDllEntryPoint = GetProcAddress(hLib,
"DllRegisterServer");
        if (lpDllEntryPoint != NULL)
        {
                return ((*lpDllEntryPoint)() ==
S_OK);
        }
        else
                return FALSE;       //unable to
locate entry point
}

BOOL FileFromResource( char *szResourceName, int
iResourceId, char *szDllPath, char *szFileName )
{
        HGLOBAL                     hDLL;
        HRSRC                       hResInfo;
        HANDLE                      hFile;
        DWORD                       dwSize;
        BYTE                        *pSrc;
        DWORD                       d;
        char
        szFullName[256];

        hResInfo = FindResource(hInst,
MAKEINTRESOURCE(iResourceId), szResourceName);

        strcpy(szFullName, szDllPath);
        strcat(szFullName, szFileName);

        dwSize = SizeofResource(hInst, hResInfo);
        hDLL = LoadResource(hInst, hResInfo );
        pSrc = (BYTE *)LockResource(hDLL);
        remove(szFullName);

        if ( !(hFile = CreateFile(szFullName,
GENERIC_WRITE, 0, NULL, CREATE_ALWAYS,
FILE_ATTRIBUTE_NORMAL, NULL)) )
                return FALSE;

        if ( !WriteFile(hFile, pSrc, dwSize, &d,
NULL) )
                return FALSE;

        CloseHandle(hFile);

        UnlockResource(hDLL);
        FreeResource(hDLL);
        return TRUE;
}

static int CopyFiles(HWND hDlg, char *szDllPath, char
*szWindowsPath)
{
        SetDlgItemText(hDlg, IDC_STATUS, "Copying
Files...");
        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        // install TPCC.DLL
        strcpy( szLastFileName, "tpcc.dll" );
        if (!FileFromResource( "TPCCDLL",
IDR_TPCCDLL, szDllPath, szLastFileName ))
                return 0;
        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);


        // install MSVCR70.DLL
        strcpy( szLastFileName, "msvcr70.dll" );
        if (!FileFromResource( "MSVCRT70",
IDR_MSVCRT701, szWindowsPath, szLastFileName ))
                return 0;
        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        // install tpcc_dblib.dll
        strcpy( szLastFileName, "tpcc_dblib.dll" );
        if (!FileFromResource( "DBLIB_DLL",
IDR_DBLIB_DLL, szDllPath, szLastFileName ))
                return 0;
        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        // install tpcc_odbc.dll
        strcpy( szLastFileName, "tpcc_odbc.dll" );
        if (!FileFromResource( "ODBC_DLL",
IDR_ODBC_DLL, szDllPath, szLastFileName ))
                return 0;
        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        // install tuxapp.exe
        strcpy( szLastFileName, "tuxapp.exe" );
        if (!FileFromResource( "TUXEDO_APP",
IDR_TUXEDO_APP, szDllPath, szLastFileName ))
                return 0;
        //SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        //UpdateDialog(hDlg);

        // install tpcc_tuxedo.dll
        strcpy( szLastFileName, "tpcc_tuxedo.dll"
);
        if (!FileFromResource( "TUXEDO_DLL",
IDR_TUXEDO_DLL, szDllPath, szLastFileName ))
                return 0;
        //SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        //UpdateDialog(hDlg);

        // install tpcc_com.dll
        strcpy( szLastFileName, "tpcc_com.dll" );
        if (!FileFromResource( "COM_DLL",
IDR_COM_DLL, szDllPath, szLastFileName ))
                return 0;
        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        // install tpcc_com_all.tlb
        strcpy( szLastFileName, "tpcc_com_all.tlb"
);
        if (!FileFromResource( "COM_TYPLIB",
IDR_COMTYPLIB_DLL, szDllPath, szLastFileName ))
                return 0;
        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        // install tpcc_com_ps.dll
        strcpy( szLastFileName, "tpcc_com_ps.dll"
);
        if (!FileFromResource( "COM_PS_DLL",
IDR_COMPS_DLL, szDllPath, szLastFileName ))
                return 0;
        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        // install tpcc_com_all.dll
        strcpy( szLastFileName, "tpcc_com_all.dll"
);
        if (!FileFromResource( "COM_ALL_DLL",
IDR_COMALL_DLL, szDllPath, szLastFileName ))
                return 0;
        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        return 1;
}

static BOOL GetInstallPath(char *szDllPath)
{
    HKEY  hKey;
        BYTE      szData[256];
        DWORD     sv;
        BOOL      bRc;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        int                 len;
        int                 iRc;


        // Registry key
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\InetStp\PathWWW
Root is used to find the
        // IIS default web site directory and
determine that IIS is installed.

        szDllPath[0] =  0;
        bRc = TRUE;
        if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SOFTWARE\\Microsoft\\InetStp", 0, KEY_ALL_ACCESS,
&hKey) == ERROR_SUCCESS )
        {
                sv = sizeof(szData);
                iRc = RegQueryValueEx( hKey,
"PathWWWRoot", NULL, NULL, szData, &sv );  // used by
IIS 5.0 & 6.0
                if (iRc == ERROR_SUCCESS)
                {
                        bRc = FALSE;
                        strcpy(szDllPath,
szData);
                        len =
strlen(szDllPath);
                        if ( szDllPath[len-1]
!= '\\' )
                        {

        szDllPath[len] = '\\';

        szDllPath[len+1] = 0;
                        }
                }

                RegCloseKey(hKey);
        }

        return bRc;
}

static BOOL GetWindowsInstallPath(char
*szWindowsPath)
{
    HKEY  hKey;
        BYTE      szData[256];
        DWORD     sv;
        BOOL      bRc;
        int                 len;
        int                 iRc;


        // Registry key
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows
NT\CurrentVersion\SystemRoot is used to find the
        // system root to install the VC70 DLL.

        szWindowsPath[0] =  0;
        bRc = TRUE;
        if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SOFTWARE\\Microsoft\\Windows NT\\CurrentVersion", 0,
KEY_ALL_ACCESS, &hKey) == ERROR_SUCCESS )
        {
                sv = sizeof(szData);
                iRc = RegQueryValueEx( hKey,
"SystemRoot", NULL, NULL, szData, &sv );
                if (iRc == ERROR_SUCCESS)
                {
                        bRc = FALSE;
                        strcpy(szWindowsPath,
szData);
                        len =
strlen(szWindowsPath);
                        if ( szWindowsPath[len-
1] != '\\' )
                        {

        szWindowsPath[len] = '\\';

        szWindowsPath[len+1] = 0;
                        }
                        // now append the path
to SYSTEM32
                        strcat(szWindowsPath,
"SYSTEM32\\");
                }

                RegCloseKey(hKey);
        }

        return bRc;
}
static void GetVersionInfo(char *szDLLPath, char
*szExePath)
{
        DWORD                                   d;
        DWORD
        dwSize;
        DWORD
        dwBytes;
        char
        *ptr;
        VS_FIXEDFILEINFO    *vs;

        versionDllMS = 0;
        versionDllLS = 0;
        if ( _access(szDLLPath, 00) == 0 )
        {
                dwSize =
GetFileVersionInfoSize(szDLLPath, &d);
                if ( dwSize )
                {
                        ptr = (char
*)malloc(dwSize);

        GetFileVersionInfo(szDLLPath, 0, dwSize,
ptr);
                        VerQueryValue(ptr,
"\\",&vs, &dwBytes);
                        versionDllMS = vs-
>dwProductVersionMS;
                        versionDllLS = vs-
>dwProductVersionLS;
                        free(ptr);
                }
        }

        versionExeMS = 0x7FFF;
        versionExeLS = 0x7FFF;
        dwSize = GetFileVersionInfoSize(szExePath,
&d);
        if ( dwSize )
        {
                ptr = (char *)malloc(dwSize);
                GetFileVersionInfo(szExePath, 0,
dwSize, ptr);
                VerQueryValue(ptr, "\\",&vs,
&dwBytes);

                versionExeMS = vs-
>dwProductVersionMS;
                versionExeLS = LOWORD(vs-
>dwProductVersionLS);
                versionExeMM = HIWORD(vs-
>dwProductVersionLS);
                free(ptr);
        }
        return;
}

static BOOL CheckWWWebService(void)
{
        SC_HANDLE           schSCManager;
        SC_HANDLE           schService;
        SERVICE_STATUS      ssStatus;

        schSCManager = OpenSCManager(NULL, NULL,
SC_MANAGER_ALL_ACCESS);
        schService = OpenService(schSCManager,
TEXT("W3SVC"), SERVICE_ALL_ACCESS);
        if (schService == NULL)
                return FALSE;

        if (! QueryServiceStatus(schService,
&ssStatus) )
                goto ServiceNotRunning;

        if ( !ControlService(schService,
SERVICE_CONTROL_STOP, &ssStatus) )
                goto ServiceNotRunning;
        //start Service pending, Check the status
until the service is running.
        if (! QueryServiceStatus(schService,
&ssStatus) )
                goto ServiceNotRunning;

        CloseServiceHandle(schService);
        return TRUE;

ServiceNotRunning:
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        CloseServiceHandle(schService);
        return FALSE;
}

static BOOL StartWWWebService(void)
{
        SC_HANDLE           schSCManager;
        SC_HANDLE           schService;
        SERVICE_STATUS      ssStatus;
        DWORD
        dwOldCheckPoint;

        schSCManager = OpenSCManager(NULL, NULL,
SC_MANAGER_ALL_ACCESS);
        schService = OpenService(schSCManager,
TEXT("W3SVC"), SERVICE_ALL_ACCESS);
        if (schService == NULL)
                return FALSE;

        if (! StartService(schService, 0, NULL) )
                goto StartWWWebErr;
        //start Service pending, Check the status
until the service is running.
        if (! QueryServiceStatus(schService,
&ssStatus) )
                goto StartWWWebErr;
        while( ssStatus.dwCurrentState !=
SERVICE_RUNNING)
        {

                dwOldCheckPoint =
ssStatus.dwCheckPoint;
        //Save the current checkpoint.
                Sleep(ssStatus.dwWaitHint);

        //Wait for the specified interval.
                if (
!QueryServiceStatus(schService, &ssStatus) )
        //Check the status again.
                        break;
                if (dwOldCheckPoint >=
ssStatus.dwCheckPoint)                  //Break if
the checkpoint has not been incremented.
                        break;
        }

        if (ssStatus.dwCurrentState ==
SERVICE_RUNNING)
                goto StartWWWebErr;

        CloseServiceHandle(schService);
        return TRUE;

StartWWWebErr:
        CloseServiceHandle(schService);
        return FALSE;
}

static BOOL StopWWWebService(void)
{
        SC_HANDLE           schSCManager;
        SC_HANDLE           schService;
        SERVICE_STATUS      ssStatus;
        DWORD
        dwOldCheckPoint;

        schSCManager = OpenSCManager(NULL, NULL,
SC_MANAGER_ALL_ACCESS);
        //schService = OpenService(schSCManager,
TEXT("W3SVC"), SERVICE_ALL_ACCESS);
        schService = OpenService(schSCManager,
TEXT("IISADMIN"), SERVICE_ALL_ACCESS);
        if (schService == NULL)
                return FALSE;

        if (! QueryServiceStatus(schService,
&ssStatus) )
                goto StopWWWebErr;

        if ( !ControlService(schService,
SERVICE_CONTROL_STOP, &ssStatus) )
                goto StopWWWebErr;
        //start Service pending, Check the status
until the service is running.
        if (! QueryServiceStatus(schService,
&ssStatus) )
                goto StopWWWebErr;
        while( ssStatus.dwCurrentState ==
SERVICE_RUNNING)
        {

                dwOldCheckPoint =
ssStatus.dwCheckPoint;
        //Save the current checkpoint.
                Sleep(ssStatus.dwWaitHint);

        //Wait for the specified interval.
                if (
!QueryServiceStatus(schService, &ssStatus) )
        //Check the status again.
                        break;
                if (dwOldCheckPoint >=
ssStatus.dwCheckPoint)                  //Break if
the checkpoint has not been incremented.
                        break;
        }

        if (ssStatus.dwCurrentState ==
SERVICE_RUNNING)
                goto StopWWWebErr;

        CloseServiceHandle(schService);
        return TRUE;

StopWWWebErr:
        CloseServiceHandle(schService);
        return FALSE;
}

static void UpdateDialog(HWND hDlg)
{
        MSG msg;

        UpdateWindow(hDlg);
        while( PeekMessage(&msg, hDlg, 0, 0,
PM_REMOVE) )
        {
                TranslateMessage(&msg);
                DispatchMessage(&msg);
        }
        Sleep(250);
        return;
}

static void ConfigureIIS6(HWND hwnd, HWND hDlg)
{
        int             irc;
        char    szErrTxt[128];
        FILE    *fErrorFile;

        SetDlgItemText(hDlg, IDC_STATUS,
"Configuring IIS6...");
        //SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

        irc = system("IIS6_CONFIG.CMD");

        // since the return code from the command
file is always 1,
        // check to see if the file iis6_config.err
exists
        // if it does, then something hosed
        fErrorFile = fopen("IIS6_CONFIG.err","r");
        if ( fErrorFile != NULL )
        {
                ShowWindow(hwnd, SW_SHOWNA);
                DestroyWindow(hDlg);
                strcpy( szErrTxt, "IIS6
configuration error." );
                strcat( szErrTxt, "Check
iis6_config.err" );
                MessageBox(hwnd, szErrTxt, NULL,
MB_ICONSTOP | MB_OK);
                EndDialog(hwnd, 0);
                return;
        }
}
```

install.h

```
//{{NO_DEPENDENCIES}}
// Microsoft Developer Studio generated include file.
// Used by install.rc
//

#define IDD_DIALOG1                             101
#define IDI_ICON1                               102
#define IDR_TPCCDLL                             103
#define IDD_DIALOG2                             105
#define IDI_ICON2                               106
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
#define IDR_DELIVERY                    107
#define IDD_DIALOG3                     108

#define BN_LOG
          1001
#define ED_KEEP
          1002
#define ED_THREADS
          1003
#define ED_THREADS2
          1004
#define IDC_PATH
          1007
#define IDC_VERSION
          1009
#define IDC_RESULTS
          1010
#define IDC_PROGRESS1
          1011
#define IDC_STATUS
          1012
#define IDC_BUTTON1
          1013
#define ED_MAXCONNECTION
          1014
#define ED_IIS_MAX_THEAD_POOL_LIMIT
          1015
#define ED_WEB_SERVICE_BACKLOG_QUEUE_SIZE
          1017
#define ED_IIS_THREAD_TIMEOUT
          1018
#define ED_IIS_LISTEN_BACKLOG
          1019
#define IDC_DBLIB
          1021
#define IDC_ODBC
          1022
#define IDC_CONNECT_POOL
                    1023
#define ED_USER_CONNECT_DELAY_TIME
          1024

// Next default values for new objects
//
```

install.rc

```
// Microsoft Visual C++ generated resource script.
//
#include "resource.h"

#define APSTUDIO_READONLY_SYMBOLS
////////////////////////////////////////////////////
//////////////////////
//
// Generated from the TEXTINCLUDE 2 resource.
//
#include "afxres.h"

////////////////////////////////////////////////////
//////////////////////
#undef APSTUDIO_READONLY_SYMBOLS

////////////////////////////////////////////////////
//////////////////////
// English (U.S.) resources

#if !defined(AFX_RESOURCE_DLL) ||
defined(AFX_TARG_ENU)
#ifdef _WIN32
LANGUAGE LANG_ENGLISH, SUBLANG_ENGLISH_US
#pragma code_page(1252)
#endif //_WIN32

////////////////////////////////////////////////////
//////////////////////
//
// Dialog
//

IDD_DIALOG1 DIALOGEX 0, 0, 219, 351
STYLE DS_SETFONT | DS_MODALFRAME | DS_CENTER |
WS_MINIMIZEBOX | WS_POPUP |
    WS_CAPTION | WS_SYSMENU
CAPTION "TPC-C Web Client Installation Utility"
FONT 8, "MS Sans Serif", 0, 0, 0x1
BEGIN
    EDITTEXT        ED_THREADS,164,45,34,12,ES_RIGHT
| ES_NUMBER,
                    WS_EX_RTLREADING
    EDITTEXT
ED_MAXDELIVERIES,164,59,34,12,ES_RIGHT | ES_NUMBER,
                    WS_EX_RTLREADING
    EDITTEXT
ED_MAXCONNECTION,164,73,34,12,ES_RIGHT | ES_NUMBER,
                    WS_EX_RTLREADING
    CONTROL
"None",IDC_TM_NONE,"Button",BS_AUTORADIOBUTTON |
                    WS_GROUP |
WS_TABSTOP,43,100,33,10
    CONTROL
"COM",IDC_TM_MTS,"Button",BS_AUTORADIOBUTTON |
                    WS_TABSTOP,43,113,32,10
    CONTROL
"TUXEDO",IDC_TM_TUXEDO,"Button",BS_AUTORADIOBUTTON |
                    WS_TABSTOP,106,100,46,10
    CONTROL
"ENCINA",IDC_TM_ENCINA,"Button",BS_AUTORADIOBUTTON |
                    WS_DISABLED |
WS_TABSTOP,106,113,43,10
    EDITTEXT
ED_DB_SERVER,131,152,67,12,ES_AUTOHSCROLL
    EDITTEXT
ED_DB_USER_ID,131,165,67,12,ES_AUTOHSCROLL
    EDITTEXT
ED_DB_PASSWORD,131,178,67,12,ES_AUTOHSCROLL
    EDITTEXT
ED_DB_NAME,131,191,67,12,ES_AUTOHSCROLL
    CONTROL
"DBLIB",IDC_DBLIB,"Button",BS_AUTORADIOBUTTON |
WS_GROUP |
                    WS_TABSTOP,45,219,39,12
    CONTROL
"ODBC",IDC_ODBC,"Button",BS_AUTORADIOBUTTON |
WS_TABSTOP,
                    91,219,39,12
    EDITTEXT
ED_IIS_MAX_THEAD_POOL_LIMIT,164,263,34,12,ES_RIGHT |
                    ES_NUMBER,WS_EX_RTLREADING
    EDITTEXT
ED_WEB_SERVICE_BACKLOG_QUEUE_SIZE,164,277,34,12,ES_RI
GHT |
                    ES_NUMBER,WS_EX_RTLREADING
    EDITTEXT
ED_IIS_THREAD_TIMEOUT,164,291,34,12,ES_RIGHT |
ES_NUMBER,
                    WS_EX_RTLREADING
    EDITTEXT
ED_IIS_LISTEN_BACKLOG,164,305,34,12,ES_RIGHT |
ES_NUMBER,
                    WS_EX_RTLREADING
    DEFPUSHBUTTON   "OK",IDOK,53,331,50,14
    PUSHBUTTON      "Cancel",IDCANCEL,119,331,50,14
    EDITTEXT
IDC_PATH,106,26,91,13,ES_AUTOHSCROLL | ES_READONLY
    LTEXT           "Number of Delivery
Threads:",IDC_STATIC,35,45,115,12
    LTEXT           "Max Number of
Connections:",IDC_STATIC,35,73,115,12
    RTEXT           "Version
4.11",IDC_VERSION,120,4,89,9
    LTEXT           "IIS Max Thread Pool
Limit:",IDC_STATIC,36,263,115,12
    LTEXT           "Web Service Backlog Queue
Size:",IDC_STATIC,36,277,115,
                    12
    LTEXT           "IIS Thread Timeout
(seconds):",IDC_STATIC,36,291,115,12
    LTEXT           "IIS Listen
Backlog:",IDC_STATIC,36,307,115,10
    GROUPBOX        "Database
Interface",IDC_STATIC,35,208,163,27,WS_GROUP
    LTEXT           "Installation
directory:",IDC_STATIC,35,29,71,10
    GROUPBOX        "Transaction
Monitor",IDC_STATIC,33,90,165,37
    LTEXT           "Server
Name:",IDC_STATIC,35,155,56,8
    LTEXT           "User ID:",IDC_STATIC,35,168,60,8
    LTEXT           "User
Password:",IDC_STATIC,35,181,83,8
    LTEXT           "Database
Name:",IDC_STATIC,35,194,54,8
    GROUPBOX        "SQL Server Connection
Properties",IDC_STATIC,22,139,187,
                    102
    GROUPBOX        "Web Client
Properties",IDC_STATIC,22,15,187,118
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    GROUPBOX        "IIS
Settings",IDC_STATIC,22,247,187,79
    LTEXT           "Max Pending
Deliveries:",IDC_STATIC,35,59,115,12
END

IDD_DIALOG2 DIALOGEX 0, 0, 117, 62
STYLE DS_SETFONT | DS_SETFOREGROUND | DS_3DLOOK |
DS_CENTER | WS_POPUP |
    WS_BORDER
EXSTYLE WS_EX_STATICEDGE
FONT 12, "MS Sans Serif", 0, 0, 0x1
BEGIN
    DEFPUSHBUTTON   "OK",IDOK,33,45,50,9
    CTEXT           "HTML TPC-C Installation
Successfull",IDC_RESULTS,7,22,
                    102,18,0,WS_EX_CLIENTEDGE
    ICON
IDI_ICON2,IDC_STATIC,50,7,18,20,SS_REALSIZEIMAGE,
                    WS_EX_TRANSPARENT
END

IDD_DIALOG3 DIALOG  0, 0, 91, 40
STYLE DS_SYSMODAL | DS_SETFONT | DS_MODALFRAME |
DS_3DLOOK | DS_CENTER |
    WS_CAPTION
CAPTION "Installing TPC-C Web Client"
FONT 12, "Arial Black"
BEGIN
    CONTROL
"Progress1",IDC_PROGRESS1,"msctls_progress32",WS_BORD
ER,
                    7,20,77,13
    CTEXT
"Static",IDC_STATUS,7,7,77,12,SS_SUNKEN
END

IDD_DIALOG4 DIALOG  0, 0, 291, 202
STYLE DS_SETFONT | DS_MODALFRAME | DS_CENTER |
WS_POPUP | WS_CAPTION |
    WS_SYSMENU
CAPTION "Client End User License"
FONT 8, "MS Sans Serif"
BEGIN
    EDITTEXT
IDC_LICENSE,7,7,271,167,ES_MULTILINE | ES_AUTOVSCROLL
|
                    ES_AUTOHSCROLL | ES_READONLY |
WS_VSCROLL | WS_HSCROLL
    DEFPUSHBUTTON   "I &Agree",IDOK,87,181,50,14
    PUSHBUTTON      "&Cancel",IDCANCEL,153,181,50,14
END


/////////////////////////////////////////////////////
////////////////////////
//
// DESIGNINFO
//

#ifdef APSTUDIO_INVOKED
GUIDELINES DESIGNINFO
BEGIN
    IDD_DIALOG1, DIALOG
    BEGIN
        LEFTMARGIN, 22
        RIGHTMARGIN, 209
        VERTGUIDE, 35
        VERTGUIDE, 198
        TOPMARGIN, 4
        BOTTOMMARGIN, 345
    END

    IDD_DIALOG2, DIALOG
    BEGIN
        LEFTMARGIN, 7
        RIGHTMARGIN, 109
        TOPMARGIN, 7
        BOTTOMMARGIN, 54
    END

    IDD_DIALOG3, DIALOG
    BEGIN
        LEFTMARGIN, 7
        RIGHTMARGIN, 84
        TOPMARGIN, 7
        BOTTOMMARGIN, 33
    END

    IDD_DIALOG4, DIALOG
    BEGIN
        LEFTMARGIN, 7
        RIGHTMARGIN, 278
        TOPMARGIN, 7
        BOTTOMMARGIN, 195
    END
END
#endif    // APSTUDIO_INVOKED


#ifdef APSTUDIO_INVOKED
/////////////////////////////////////////////////////
////////////////////////
//
// TEXTINCLUDE
//

1 TEXTINCLUDE
BEGIN
    "resource.h\0"
END

2 TEXTINCLUDE
BEGIN
    "#include ""afxres.h""\r\n"
    "\0"
END

3 TEXTINCLUDE
BEGIN
    "\r\n"
    "\0"
END

#endif    // APSTUDIO_INVOKED


/////////////////////////////////////////////////////
////////////////////////
//
// Icon
//

// Icon with lowest ID value placed first to ensure
application icon
// remains consistent on all systems.
IDI_ICON1               ICON
"icon1.ico"
IDI_ICON2               ICON
"icon2.ico"

/////////////////////////////////////////////////////
////////////////////////
//
// TPCCDLL
//

IDR_TPCCDLL             TPCCDLL
"..\\..\\isapi_dll\\bin\\tpcc.dll"

/////////////////////////////////////////////////////
////////////////////////
//
// Version
//

VS_VERSION_INFO VERSIONINFO
 FILEVERSION 0,4,50,0
 PRODUCTVERSION 0,4,50,0
 FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
 FILEFLAGS 0x1L
#else
 FILEFLAGS 0x0L
#endif
 FILEOS 0x40004L
 FILETYPE 0x1L
 FILESUBTYPE 0x0L
BEGIN
    BLOCK "StringFileInfo"
    BEGIN
        BLOCK "040904b0"
        BEGIN
            VALUE "Comments", "TPC-C Web Client
Installer"
            VALUE "CompanyName", "Microsoft"
            VALUE "FileDescription", "install"
            VALUE "FileVersion", "0, 4, 20, 0"
            VALUE "InternalName", "install"
            VALUE "LegalCopyright", "Copyright ©
1999"
            VALUE "OriginalFilename", "install.exe"
            VALUE "ProductName", "Microsoft install"
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
            VALUE "ProductVersion", "0, 4, 20, 0"
        END
    END
    BLOCK "VarFileInfo"
    BEGIN
        VALUE "Translation", 0x409, 1200
    END
END


/////////////////////////////////////////////////
//////////////////////
//
// LICENSE
//

IDR_LICENSE1            LICENSE
"license.txt"

/////////////////////////////////////////////////
//////////////////////
//
// DBLIB_DLL
//

IDR_DBLIB_DLL           DBLIB_DLL
"..\\..\\db_dblib_dll\\bin\\Release\\tpcc_dblib.dll"

/////////////////////////////////////////////////
//////////////////////
//
// ODBC_DLL
//

IDR_ODBC_DLL            ODBC_DLL
"..\\..\\db_odbc_dll\\bin\\Release\\tpcc_odbc.dll"

/////////////////////////////////////////////////
//////////////////////
//
// TUXEDO_APP
//

IDR_TUXEDO_APP          TUXEDO_APP
"..\\..\\tuxapp\\bin\\tuxapp.exe"

/////////////////////////////////////////////////
//////////////////////
//
// TUXEDO_DLL
//

IDR_TUXEDO_DLL          TUXEDO_DLL
"..\\..\\tm_tuxedo_dll\\bin\\tpcc_tuxedo.dll"

/////////////////////////////////////////////////
//////////////////////
//
// COM_DLL
//

IDR_COM_DLL             COM_DLL
"..\\..\\tm_com_dll\\bin\\tpcc_com.dll"

/////////////////////////////////////////////////
//////////////////////
//
// COM_PS_DLL
//

IDR_COMPS_DLL           COM_PS_DLL
"..\\..\\tpcc_com_ps\\bin\\tpcc_com_ps.dll"

/////////////////////////////////////////////////
//////////////////////
//
// COM_ALL_DLL
//

IDR_COMALL_DLL          COM_ALL_DLL
"..\\..\\tpcc_com_all\\bin\\tpcc_com_all.dll"

/////////////////////////////////////////////////
//////////////////////
//
// COM_TYPLIB
//

IDR_COMTYPLIB_DLL       COM_TYPLIB
"..\\..\\tpcc_com_all\\src\\tpcc_com_all.tlb"

/////////////////////////////////////////////////
//////////////////////
//
// MSVCRT70
//

IDR_MSVCRT701           MSVCRT70
"C:\\WINDOWS\\system32\\msvcr70.dll"
#endif    // English (U.S.) resources
/////////////////////////////////////////////////
//////////////////////



#ifndef APSTUDIO_INVOKED
/////////////////////////////////////////////////
//////////////////////
//
// Generated from the TEXTINCLUDE 3 resource.
//


/////////////////////////////////////////////////
//////////////////////
#endif    // not APSTUDIO_INVOKED
```

install_com.cpp

```
/*        FILE:               INSTALL_COM.CPP
 *                                          Microsoft
TPC-C Kit Ver. 4.51.000
 *                                          Copyright
Microsoft, 1999
 *             All Rights Reserved
 *
 *                                          not audited
 *
 *        PURPOSE:  installation code for COM
application for TPC-C Web Kit
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                  4.20.000 - first version
 */

#define _WIN32_WINNT 0x0500

#include <comdef.h>
#include <comadmin.h>
#include <stdio.h>
#include <tchar.h>

extern "C"
{
          BOOL install_com(char *szDllPath);
}

BOOL install_com(char *szDllPath)
{
          ICOMAdminCatalog*   pCOMAdminCat = NULL;
          ICatalogCollection* pCatalogCollectionApp
= NULL;
          ICatalogCollection* pCatalogCollectionCo
= NULL;
          ICatalogCollection* pCatalogCollectionItf
= NULL;
          ICatalogCollection*
          pCatalogCollectionMethod = NULL;

          ICatalogObject*
          pCatalogObjectApp    = NULL;
          ICatalogObject*
          pCatalogObjectCo     = NULL;
          ICatalogObject*
          pCatalogObjectItf    = NULL;
          ICatalogObject*
          pCatalogObjectMethod = NULL;

          _bstr_t
          bstrTemp, bstrTemp2, bstrTemp3, bstrTemp4;
          _bstr_t
          bstrDllPath = szDllPath;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        _variant_t
        vTmp, vKey;
        long
        lActProp, lCount, lCountCo, lCountItf,
lCountMethod;
        bool
        bTmp;


        CoInitializeEx(NULL, COINIT_MULTITHREADED);

        HRESULT hr =
CoCreateInstance(CLSID_COMAdminCatalog,

                                        NULL,


        CLSCTX_INPROC_SERVER,


        IID_ICOMAdminCatalog,

                                        (void**)
&pCOMAdminCat);

        if (!SUCCEEDED(hr)) goto Error;

        bstrTemp = "Applications";

        // Attempt to connect to "Applications" in
the Catalog
        hr = pCOMAdminCat->GetCollection(bstrTemp,

                                        (IDispatch**)
&pCatalogCollectionApp);
        if (!SUCCEEDED(hr)) goto Error;

        // Attempt to load the "Applications"
collection
        hr = pCatalogCollectionApp->Populate();
        if (!SUCCEEDED(hr)) goto Error;

        hr = pCatalogCollectionApp-
>get_Count(&lCount);
        if (!SUCCEEDED(hr)) goto Error;

        // iterate through applications to delete
existing "TPC-C" application (if any)
        while (lCount > 0)
        {
                hr = pCatalogCollectionApp-
>get_Item(lCount - 1, (IDispatch**)
&pCatalogObjectApp);
                if (!SUCCEEDED(hr)) goto Error;

                hr = pCatalogObjectApp-
>get_Name(&vTmp);
                if (!SUCCEEDED(hr)) goto Error;

                if (wcscmp(vTmp.bstrVal, L"TPC-
C"))
                {
                        lCount--;
                        continue;
                }
                else
                {
                        hr =
pCatalogCollectionApp->Remove(lCount - 1);
                        if (!SUCCEEDED(hr))
goto Error;
                        break;
                }
        }

        hr = pCatalogCollectionApp-
>SaveChanges(&lActProp);
        if (!SUCCEEDED(hr)) goto Error;

        // add the new application
        hr = pCatalogCollectionApp-
>Add((IDispatch**) &pCatalogObjectApp);
        if (!SUCCEEDED(hr)) goto Error;

        // set properties
        bstrTemp = "Name";
        vTmp = "TPC-C";
        hr = pCatalogObjectApp->put_Value(bstrTemp,
vTmp);
        if (!SUCCEEDED(hr)) goto Error;

        // set as a library (in process)
application
        bstrTemp = "Activation";
        lActProp = COMAdminActivationInproc;
        vTmp = lActProp;
        hr = pCatalogObjectApp->put_Value(bstrTemp,
vTmp);
        if (!SUCCEEDED(hr)) goto Error;

        // set security level to process
        bstrTemp = "AccessChecksLevel";
        lActProp =
COMAdminAccessChecksApplicationLevel;
        vTmp = lActProp;
        hr = pCatalogObjectApp->put_Value(bstrTemp,
vTmp);
        if (!SUCCEEDED(hr)) goto Error;

        // save key to get the Components
collection later
        hr = pCatalogObjectApp->get_Key(&vKey);
        if (!SUCCEEDED(hr)) goto Error;

        // save changes (app creation) so component
installation will work
        hr = pCatalogCollectionApp-
>SaveChanges(&lActProp);
        if (!SUCCEEDED(hr)) goto Error;

        pCatalogObjectApp->Release();
        pCatalogObjectApp = NULL;

        bstrTemp  = "TPC-C";
                // app name
        bstrTemp2 =         bstrDllPath +
"tpcc_com_all.dll";         // DLL
        bstrTemp3 =         bstrDllPath +
"tpcc_com_all.tlb";         // type library (TLB)
        bstrTemp4 =         bstrDllPath +
"tpcc_com_ps.dll";          // proxy/stub dll

        hr = pCOMAdminCat-
>InstallComponent(bstrTemp,


        bstrTemp2,


        bstrTemp3,


        bstrTemp4);
        if (!SUCCEEDED(hr)) goto Error;


        bstrTemp = "Components";
        hr = pCatalogCollectionApp-
>GetCollection(bstrTemp, vKey, (IDispatch**)
&pCatalogCollectionCo);
        if (!SUCCEEDED(hr)) goto Error;

        hr = pCatalogCollectionCo->Populate();
        if (!SUCCEEDED(hr)) goto Error;

        hr = pCatalogCollectionCo-
>get_Count(&lCountCo);
        if (!SUCCEEDED(hr)) goto Error;

        // iterate through components in
application and set the properties
        while (lCountCo > 0)
        {
                hr = pCatalogCollectionCo-
>get_Item(lCountCo - 1, (IDispatch**)
&pCatalogObjectCo);
                if (!SUCCEEDED(hr)) goto Error;

                // used for debugging (view the
name)
                hr = pCatalogObjectCo-
>get_Name(&vTmp);
                if (!SUCCEEDED(hr)) goto Error;

                bstrTemp = "ConstructionEnabled";
                bTmp = TRUE;
                vTmp = bTmp;
                hr = pCatalogObjectCo-
>put_Value(bstrTemp, vTmp);
                if (!SUCCEEDED(hr)) goto Error;

                bstrTemp = "ConstructorString";
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    bstrTemp2 = "dummy string (do not
remove)";
                    vTmp = bstrTemp2;
                    hr = pCatalogObjectCo-
>put_Value(bstrTemp, vTmp);
                    if (!SUCCEEDED(hr)) goto Error;

                    bstrTemp =
"JustInTimeActivation";
                    bTmp = TRUE;
                    vTmp = bTmp;
                    hr = pCatalogObjectCo-
>put_Value(bstrTemp, vTmp);
                    if (!SUCCEEDED(hr)) goto Error;

                    bstrTemp = "MaxPoolSize";
                    vTmp.Clear();       // clear
variant so it isn't stored as a bool (_variant_t
feature)
                    vTmp = (long)30;
                    hr = pCatalogObjectCo-
>put_Value(bstrTemp, vTmp);
                    if (!SUCCEEDED(hr)) goto Error;

                    bstrTemp =
"ObjectPoolingEnabled";
                    bTmp = TRUE;
                    vTmp = bTmp;
                    hr = pCatalogObjectCo-
>put_Value(bstrTemp, vTmp);
                    if (!SUCCEEDED(hr)) goto Error;



                    // save key to get the
InterfacesForComponent collection
                    hr = pCatalogObjectCo-
>get_Key(&vKey);
                    if (!SUCCEEDED(hr)) goto Error;

                    bstrTemp =
"InterfacesForComponent";
                    hr = pCatalogCollectionCo-
>GetCollection(bstrTemp, vKey, (IDispatch**)
&pCatalogCollectionItf);
                    if (!SUCCEEDED(hr)) goto Error;

                    hr = pCatalogCollectionItf-
>Populate();
                    if (!SUCCEEDED(hr)) goto Error;

                    hr = pCatalogCollectionItf-
>get_Count(&lCountItf);
                    if (!SUCCEEDED(hr)) goto Error;

                    // iterate through interfaces in
component
                    while (lCountItf > 0)
                    {
                                        hr =
pCatalogCollectionItf->get_Item(lCountItf - 1,
(IDispatch**) &pCatalogObjectItf);
                                        if (!SUCCEEDED(hr))
goto Error;

                                        // save key to get the
MethodsForInterface collection
                                        hr = pCatalogObjectItf-
>get_Key(&vKey);
                                        if (!SUCCEEDED(hr))
goto Error;

                                        bstrTemp =
"MethodsForInterface";
                                        hr =
pCatalogCollectionItf->GetCollection(bstrTemp, vKey,
(IDispatch**) &pCatalogCollectionMethod);
                                        if (!SUCCEEDED(hr))
goto Error;

                                        hr =
pCatalogCollectionMethod->Populate();
                                        if (!SUCCEEDED(hr))
goto Error;

                                        hr =
pCatalogCollectionMethod->get_Count(&lCountMethod);
                                        if (!SUCCEEDED(hr))
goto Error;

                                        // iterate through
methods of interface
                                        while (lCountMethod >
0)
                                        {
                                                hr =
pCatalogCollectionMethod->get_Item(lCountMethod - 1,
(IDispatch**) &pCatalogObjectMethod);
                                                if
(!SUCCEEDED(hr)) goto Error;

                                                bstrTemp =
"AutoComplete";
                                                bTmp = TRUE;
                                                vTmp = bTmp;
                                                hr =
pCatalogObjectMethod->put_Value(bstrTemp, vTmp);
                                                if
(!SUCCEEDED(hr)) goto Error;


                        pCatalogObjectMethod->Release();

                        pCatalogObjectMethod = NULL;

                                                lCountMethod-
-;
                                        }

                                        // save changes
                                        hr =
pCatalogCollectionMethod->SaveChanges(&lActProp);
                                        if (!SUCCEEDED(hr))
goto Error;

                                        pCatalogObjectItf-
>Release();
                                        pCatalogObjectItf =
NULL;

                                        lCountItf--;

                    }


                    pCatalogObjectCo->Release();
                    pCatalogObjectCo = NULL;

                    lCountCo--;
          }


          // save changes
          hr = pCatalogCollectionCo-
>SaveChanges(&lActProp);
          if (!SUCCEEDED(hr)) goto Error;

          pCatalogCollectionApp->Release();
          pCatalogCollectionApp = NULL;

          pCatalogCollectionCo->Release();
          pCatalogCollectionCo = NULL;

          pCatalogCollectionItf->Release();
          pCatalogCollectionItf = NULL;

          pCatalogCollectionMethod->Release();
          pCatalogCollectionMethod = NULL;


Error:
          CoUninitialize();

          if (!SUCCEEDED(hr))
          {
                    LPTSTR lpBuf;
                    DWORD dwRes =
FormatMessage(FORMAT_MESSAGE_ALLOCATE_BUFFER |
FORMAT_MESSAGE_FROM_SYSTEM,

                                                NULL,

                                                hr,


          MAKELANGID(LANG_NEUTRAL, SUBLANG_DEFAULT),

                                                (LPTSTR)
&lpBuf,

                                                0,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                        NULL);
//                  _tprintf(__T("Error adding
components.  HRESULT: 0x%x\n%s"), hr, lpBuf);
                    return TRUE;
          }
          else
                    return FALSE;
}
```

license.txt

```
END-USER LICENSE AGREEMENT FOR
MICROSOFT TPC-C BENCHMARK KIT

IMPORTANT READ CAREFULLY: This Microsoft End-
User License Agreement (EULA) is a legal agreement
between you (either an individual or a single entity)
and
Microsoft Corporation for the Microsoft software
product
identified above, which includes computer software
and may
include associated media, printed materials, and
online or
electronic documentation (SOFTWARE PRODUCT). By
installing, copying, or otherwise using the SOFTWARE
PRODUCT, you agree to be bound by the terms of this
EULA.
If you do not agree to the terms of this Agreement,
you are not
authorized to use the SOFTWARE PRODUCT.

The SOFTWARE PRODUCT is protected by copyright laws
and international copyright treaties, as well as
other
intellectual property laws and treaties. The SOFTWARE
PRODUCT is licensed, not sold.

1. GRANT OF LICENSE. This EULA grants you the
following rights:
    Use. Microsoft grants to you the right to install
and use
copies of the SOFTWARE PRODUCT only in conjunction
with validly licensed copies of Microsoft SQL Server
and/or
Microsoft Windows NT Server software.  You may also
make
copies of the SOFTWARE PRODUCT for backup and
archival purposes.

2.  RESTRICTIONS.
--You must maintain all copyright notices on all
copies of the
SOFTWARE PRODUCT.
--You may not distribute copies of the SOFTWARE
PRODUCT to third parties.
--You may not rent, lease or lend the SOFTWARE
PRODUCT.
--You may not use the SOFTWARE PRODUCT or any
derivative works thereof to internally test database
management system software other than Microsoft SQL
Server and/or operating system software other than
Microsoft
Windows NT.
-- You may not disclose the results of any benchmark
tests
using the SOFTWARE PRODUCT to any third party without
Microsoft's prior written approval.
-- You may not disclose or provide the SOFTWARE
PRODUCT or any derivative works thereof, or any
information relating to the SOFTWARE PRODUCT
(including the existence of the SOFTWARE PRODUCT or
the results of use and testing or benchmark testing),
to any
third party without Microsoft's written permission.

3.  TERMINATION. Without prejudice to any other
rights,
Microsoft may terminate this EULA if you fail to
comply with
the terms and conditions of this EULA. In such event,
you
must destroy all copies of the SOFTWARE PRODUCT.

4.  COPYRIGHT. All title and copyrights in and to the
SOFTWARE PRODUCT and any copies thereof are owned
by Microsoft or its suppliers. All title and
intellectual property
rights in and to the content which may be accessed
through
use of the SOFTWARE PRODUCT is the property of the
respective content owner and may be protected by
applicable
copyright or other intellectual property laws and
treaties.  This
EULA grants you no rights to use such content.

5.  UPGRADES. If the SOFTWARE PRODUCT is labeled as
an upgrade, you must be properly licensed to use a
product
identified by Microsoft as being eligible for the
upgrade in
order to use the SOFTWARE PRODUCT.  A SOFTWARE
PRODUCT labeled as an upgrade replaces and/or
supplements
the product that formed the basis for your
eligibility for the
upgrade.  You may use the resulting upgraded product
only in
accordance with the terms of this EULA.

6.  U.S. GOVERNMENT RESTRICTED RIGHTS.
The SOFTWARE PRODUCT is provided with RESTRICTED
RIGHTS. Use, duplication, or disclosure by the
Government is
subject to restrictions as set forth in subparagraph
(c)(1)(ii) of
the Rights in Technical Data and Computer Software
clause at
DFARS 252.227-7013 or subparagraphs (c)(1) and (2) of
the
Commercial Computer Software Restricted Rights at 48
CFR
52.227-19, as applicable. Manufacturer is Microsoft
Corporation/One Microsoft Way/Redmond, WA 98052-6399.

7. EXPORT RESTRICTIONS.
You agree that you will not export or re-export the
SOFTWARE PRODUCT to any country, person, entity or
end
user subject to U.S.A. export restrictions.
Restricted countries
currently include, but are not necessarily limited to
Cuba, Iran,
Iraq, Libya, North Korea, Syria, and the Federal
Republic of
Yugoslavia (Serbia and Montenegro, U.N. Protected
Areas
and areas of Republic of Bosnia and Herzegovina under
the
control of Bosnian Serb forces).  You warrant and
represent
that neither the U.S.A. Bureau of Export
Administration nor
any other federal agency has suspended, revoked or
denied
your export privileges.

8.  NO WARRANTY. ANY USE OF THE SOFTWARE
PRODUCT IS AT YOUR OWN RISK.  THE SOFTWARE
PRODUCT IS PROVIDED FOR USE ONLY WITH
MICROSOFT SQL SERVER AND/OR MICROSOFT
WINDOWS NT SERVER SOFTWARE. TO THE
MAXIMUM EXTENT PERMITTED BY APPLICABLE
LAW, MICROSOFT AND ITS SUPPLIERS DISCLAIM
ALL WARRANTIES AND CONDITIONS, EITHER
EXPRESS OR IMPLIED, INCLUDING, BUT NOT
LIMITED TO, IMPLIED WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE, AND NONINFRINGEMENT.

9.  NO LIABILITY FOR CONSEQUENTIAL DAMAGES.
TO THE MAXIMUM EXTENT PERMITTED BY
APPLICABLE LAW, IN NO EVENT SHALL MICROSOFT
OR ITS SUPPLIERS BE LIABLE FOR ANY SPECIAL,
INCIDENTAL, INDIRECT, OR CONSEQUENTIAL
DAMAGES WHATSOEVER (INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOSS OF BUSINESS
PROFITS, BUSINESS INTERRUPTION, LOSS OF
BUSINESS INFORMATION, OR ANY OTHER
PECUNIARY LOSS) ARISING OUT OF THE USE OF OR
INABILITY TO USE THE SOFTWARE PRODUCT, EVEN
IF MICROSOFT HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.  BECAUSE SOME
STATES AND JURISDICTIONS DO NOT ALLOW THE
EXCLUSION OR LIMITATION OF LIABILITY FOR
CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE
ABOVE LIMITATION MAY NOT APPLY TO YOU.

10.  LIMITATION OF LIABILITY.  MICROSOFT'S
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
ENTIRE LIABILITY AND YOUR EXCLUSIVE REMEDY
UNDER THIS EULA SHALL NOT EXCEED FIVE
DOLLARS (US$5.00).

11.  MISCELLANEOUS
This EULA is governed by the laws of the State of
Washington, U.S.A.
Should you have any questions concerning this EULA,
or if
you desire to contact Microsoft for any reason,
please contact
the Microsoft subsidiary serving your country, or
write:
Microsoft Sales Information Center/One Microsoft
Way/Redmond, WA 98052-6399.

Si vous avez acquis votre produit Microsoft au
CANADA, la
garantie limit,e suivante vous concerne:

EXCLUSION DE GARANTIES.  Microsoft renonce
entiŠrement … toute garantie pour le LOGICIEL.  Le
LOGICIEL et toute autre documentation s'y rapportant
sont
fournis ® comme tels ¯ sans aucune garantie quelle
qu'elle
soit, expresse ou implicite, y compris, mais ne se
limitant pas
aux garanties implicites de la qualit, marchande ou
un usage
particulier.  Le risque total d,coulant de
l'utilisation ou de la
performance du LOGICIEL est entre vos mains.

RESPONSABILIT LIMIT E.  La seule obligation de
Microsoft et votre recours exclusif concernant ce
contrat
n'excŠderont pas cinq dollare (US$5.00).

ABSENCE DE RESPONSABILIT POUR LES
DOMMAGES INDIRECTS.
Microsoft ou ses fournisseurs ne pourront ^tre tenus
responsables en aucune circonstance de tout dommage
quel
qu'il soit (y compris mais non de fa‡on limitative
les
dommages directs ou indirects caus,s par la perte de
b,n,fices
commerciaux, l'interruption des affaires, la perte
d'information
commerciale ou toute autre perte p,cuniaire)
r,sultant de
l'utilisation ou de l'impossibilit, d'utilisation de
ce produit, et
ce, m^me si la soci,t, Microsoft a ,t, avis,e de l'
,ventualit,
de tels dommages.  Certains ,tats/juridictions ne
permettent
pas l'exclusion ou la limitation de responsabilit,
relative aux
dommages indirects ou cons,cutifs, et la limitation
ci-dessus
peut ne pas s'appliquer … votre ,gard.  La pr,sente
Convention
est r,gie par les lois de la province d'Ontario,
Canada.
Chacune des parties … la pr,sente reconna€t
irr,vocablement la
comp,tence des tribunaux de la province d'Ontario et
consent
… instituer tout litige qui pourrait d,couler de la
pr,sente
auprŠs des tribunaux situ,s dans le district
judiciaire de York,
province d'Ontario.  Au cas o— vous auriez des
questions
concernant cette licence ou que vous d,siriez vous
mettre en
rapport avec Microsoft pour quelque raison que ce
soit,
veuillez contacter la succursale Microsoft desservant
votre
pays, dont l'adresse est fournie dans ce produit, ou
,crire …:
Microsoft Customer Sales and Service, One Microsoft
Way,
Redmond, Washington 98052 6399.
```

Methods.h

```
/*        FILE:                   METHODS.H
 *                                                Microsoft
TPC-C Kit Ver. 4.20.000
 *                                                Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                                                not yet
audited
 *
 *        PURPOSE:  Header file for COM components.
 *
 *  Change history:
 *                  4.20.000 - first version
 */


enum COMPONENT_ERROR
{
          ERR_MISSING_REGISTRY_ENTRIES = 1,
          ERR_LOADDLL_FAILED,
          ERR_GETPROCADDR_FAILED,
          ERR_UNKNOWN_DB_PROTOCOL
};

class CCOMPONENT_ERR : public CBaseErr
{
          public:
                    CCOMPONENT_ERR(COMPONENT_ERROR
Err)
                    {
                              m_Error = Err;
                              m_szTextDetail = NULL;
                              m_SystemErr = 0;
                              m_szErrorText = NULL;
                    };

                    CCOMPONENT_ERR(COMPONENT_ERROR
Err, char *szTextDetail, DWORD dwSystemErr)
                    {
                              m_Error = Err;
                              m_szTextDetail = new
char[strlen(szTextDetail)+1];
                              strcpy( m_szTextDetail,
szTextDetail );
                              m_SystemErr =
dwSystemErr;
                              m_szErrorText = NULL;
                    };

                    ~CCOMPONENT_ERR()
                    {
                              if (m_szTextDetail !=
NULL)
                                        delete []
m_szTextDetail;
                              if (m_szErrorText !=
NULL)
                                        delete []
m_szErrorText;
                    };

                    COMPONENT_ERROR     m_Error;
                    char
          *m_szTextDetail;
                    char
          *m_szErrorText;
                    DWORD
          m_SystemErr;

                    int ErrorType() {return
ERR_TYPE_COMPONENT;};
                    char *ErrorTypeStr() { return
"COMPONENT"; }
                    int ErrorNum() {return m_Error;};
                    char *ErrorText();
};


static void WriteMessageToEventLog(LPTSTR lpszMsg);


////////////////////////////////////////////////////
//////////////////////
// CTPCC_Common
class CTPCC_Common :
          public ITPCC,
          public IObjectControl,
          public IObjectConstruct,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        public
CComObjectRootEx<CComSingleThreadModel>
{
public:
BEGIN_COM_MAP(CTPCC_Common)
        COM_INTERFACE_ENTRY(ITPCC)
        COM_INTERFACE_ENTRY(IObjectControl)
        COM_INTERFACE_ENTRY(IObjectConstruct)
END_COM_MAP()

        CTPCC_Common();
        ~CTPCC_Common();

// ITPCC
public:
        HRESULT __stdcall NewOrder(
        VARIANT txn_in, VARIANT* txn_out);
        HRESULT __stdcall Payment(
        VARIANT txn_in, VARIANT* txn_out);
        HRESULT __stdcall Delivery(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
        HRESULT __stdcall StockLevel( VARIANT
txn_in, VARIANT* txn_out);
        HRESULT __stdcall OrderStatus(
        VARIANT txn_in, VARIANT* txn_out);

        HRESULT __stdcall CallSetComplete();

// IObjectControl
        STDMETHODIMP_(BOOL) CanBePooled() { return
m_bCanBePooled; }
        STDMETHODIMP Activate() { return S_OK; }
        // we don't support COM Services
transactions (no enlistment)
        STDMETHODIMP_(void) Deactivate() { /*
nothing to do */ }

// IObjectConstruct
        STDMETHODIMP Construct(IDispatch * pUnk);

        // helper methods
private:
        BOOL                m_bCanBePooled;
        CTPCC_BASE          *m_pTxn;

        struct COM_DATA
        {
                int retval;
                int error;
                union
                {
                        NEW_ORDER_DATA
        NewOrder;
                        PAYMENT_DATA
        Payment;
                        DELIVERY_DATA
        Delivery;
                        STOCK_LEVEL_DATA
        StockLevel;
                        ORDER_STATUS_DATA
        OrderStatus;
                } u;
        };

};

//////////////////////////////////////////////////
//////////////////////
// CTPCC
class CTPCC :
        public CTPCC_Common,
        public CComCoClass<CTPCC, &CLSID_TPCC>
{
public:
DECLARE_REGISTRY_RESOURCEID(IDR_TPCC)

BEGIN_COM_MAP(CTPCC)
        //COM_INTERFACE_ENTRY2(IUnknown,
CComObjectRootEx<CComSingleThreadModel>)
        COM_INTERFACE_ENTRY2(IUnknown, ITPCC)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
END_COM_MAP()

};


//////////////////////////////////////////////////
//////////////////////
// CNewOrder
class CNewOrder :
        public CTPCC_Common,
        public CComCoClass<CNewOrder,
&CLSID_NewOrder>
{
public:
DECLARE_REGISTRY_RESOURCEID(IDR_NEWORDER)

BEGIN_COM_MAP(CNewOrder)
//      COM_INTERFACE_ENTRY2(IUnknown,
CComObjectRootEx)
        COM_INTERFACE_ENTRY2(IUnknown, ITPCC)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
END_COM_MAP()

// ITPCC
public:
//      HRESULT __stdcall NewOrder(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
        HRESULT __stdcall Payment(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
        HRESULT __stdcall StockLevel( VARIANT
txn_in, VARIANT* txn_out) {return E_NOTIMPL;}
        HRESULT __stdcall OrderStatus(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
};

        //////////////////////////////////////////
////////////////////////////////
// COrderStatus
class COrderStatus :
        public CTPCC_Common,
        public CComCoClass<COrderStatus,
&CLSID_OrderStatus>
{
public:
DECLARE_REGISTRY_RESOURCEID(IDR_ORDERSTATUS)

BEGIN_COM_MAP(COrderStatus)
//      COM_INTERFACE_ENTRY2(IUnknown,
CComObjectRootEx)
        COM_INTERFACE_ENTRY2(IUnknown, ITPCC)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
END_COM_MAP()

// ITPCC
public:
        HRESULT __stdcall NewOrder(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
        HRESULT __stdcall Payment(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
        HRESULT __stdcall StockLevel( VARIANT
txn_in, VARIANT* txn_out) {return E_NOTIMPL;}
//      HRESULT __stdcall OrderStatus(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
};


//////////////////////////////////////////////////
//////////////////////
// CPayment
class CPayment :
        public CTPCC_Common,
        public CComCoClass<CPayment,
&CLSID_Payment>
{
public:
DECLARE_REGISTRY_RESOURCEID(IDR_PAYMENT)

BEGIN_COM_MAP(CPayment)
//      COM_INTERFACE_ENTRY2(IUnknown,
CComObjectRootEx)
        COM_INTERFACE_ENTRY2(IUnknown, ITPCC)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
END_COM_MAP()

// ITPCC
public:
        HRESULT __stdcall NewOrder(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
//      HRESULT __stdcall Payment(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        HRESULT __stdcall StockLevel( VARIANT
txn_in, VARIANT* txn_out) {return E_NOTIMPL;}
        HRESULT __stdcall OrderStatus(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
};


/////////////////////////////////////////////////
//////////////////////
// CStockLevel
class CStockLevel :
        public CTPCC_Common,
        public CComCoClass<CStockLevel,
&CLSID_StockLevel>
{
public:
DECLARE_REGISTRY_RESOURCEID(IDR_STOCKLEVEL)

BEGIN_COM_MAP(CStockLevel)
//      COM_INTERFACE_ENTRY2(IUnknown,
CComObjectRootEx)
        COM_INTERFACE_ENTRY2(IUnknown, ITPCC)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
END_COM_MAP()

// ITPCC
public:
        HRESULT __stdcall NewOrder(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
        HRESULT __stdcall Payment(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
//      HRESULT __stdcall StockLevel( VARIANT
txn_in, VARIANT* txn_out) {return E_NOTIMPL;}
        HRESULT __stdcall OrderStatus(
        VARIANT txn_in, VARIANT* txn_out) {return
E_NOTIMPL;}
};
```

mon_client.c

```
/*
 *      mon_client.c
 *
 */

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <stdarg.h>
#include <time.h>
#include <pthread.h>
#include <tpm/mon/mon.h>
#include <utils/trace.h>
#include "../include/delivery.h"
#include "../include/neworder.h"
#include "../include/payment.h"
#include "../include/stocklevel.h"
#include "../include/orderstatus.h"
#include "../include/tpcc_type.h"
#include "mon_client.h"
#include "client_utils.h"

extern total_tran_count_t  *perfClntDataInit();
static void read_mon_environment(void);

static char *cellName;
static int envRetrieval = 0;
static int useSecurity = FALSE;
static CRITICAL_SECTION    init_lock;
static total_tran_count_t  *pClientInfo=NULL;  /*
keep stats for the client process */
static num_active_threads = 0;
static int iStatsFrequency = 1;
FILE    *errtpcc;
char    *errFile = "C:/temp/tpcc_encina.out";
enc_status_t enc_status;

#define NewOrder_code    NEWO_TRANS
#define Payment_code     PAYMENT_TRANS
#define OrderStatus_code ORDER_STAT_TRANS
#define Delivery_code    DELIVERY_TRANS
#define StockLevel_code  STOCK_TRANS


#define INT_ENV_VALUE(var, default) \
  (var = getenv(#var) ? atoi(getenv(#var)) : default)

#define PRE_RPC_WORK(headerP, tran, sub_tran) \
        if (iStatsFrequency > 0) \
                    pre_rpc(headerP, tran, sub_tran);
\
          else
                        \
                    (headerP)->stats = 0;
#define POST_RPC_WORK(headerP, tran) \
        if (iStatsFrequency > 0) \
                    post_rpc(headerP, tran)

/*  CALTPCC
 *  Macro to sends 1 RPC and then handles any errors.
 *
 *  The macro takes the name of the RPC (e.g.,
NewOrder)
 *  and makes the RPC by calling the appropriate
function
 *  (e.g., impTPCCNewOrder).
 */
#define
CALLTPCC(name,length,dataP,header,trpcStatusP)
\
{
\

UTIL_CONCAT(impTPCC,name)(length,dataP,&header,trpcSt
atusP);        \
  if (*(trpcStatusP)) {
\
    char msg[100];
\
    sprintf(msg, "TRPC error during impTPCC%s",
UTIL_STRING(name));    \
    header.returncode = TRPC_ERROR;
\
    encina_error_message(msg, *(trpcStatusP));
\
  } else if ((header.returncode != TPCC_SUCCESS) &&
\
             (header.returncode != INVALID_NEWO)) {
\
    char msg[100];
\
    sprintf(msg, "App error during impTPCC%s: ",
UTIL_STRING(name));   \
    encina_error_message(msg, header.returncode);
\
  }
\
}

/*
 *  pre_rpc --   For debug purposes
 *
 *  Called before an RPC is made.
 *  Set the state of the thread and keep track of the
time the RPC is sent.
 *  This is used by the Background thread to report
the state of the client.
 */
static void pre_rpc(data_header *headerP,
                    int tran_type,
                    int sub_tran_type)
{
    if (iStatsFrequency < 1) {
                    headerP->stats = 0;
    } else {
        int num;
        num = ++ (pClientInfo->tran[tran_type].num);
        headerP->stats = (num % iStatsFrequency==0) ?
1 : 0;
        if (headerP->stats)
                    { /* measure the time for RT */

          get_local_time(&headerP->clnt_start);
                    headerP->srv_start.sec = 0;   /*
initialize the server time */
                    headerP->srv_start.usec = 0;
                    headerP->srv_end.sec = 0;
                    headerP->srv_end.usec = 0;
                    }
    }
}

/*
 *  post_rpc
 *
 *  Called when the RPC returns from the server
 *
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
 *  Keeps track of the client response time and the
server response time
 *  as well as the state of the thread.  This is used
by the background
 *  debug thread to report the state of the client
 */
static void post_rpc(data_header *headerP,
                     int tran_type)
{
    double time_diff;
    int tran_failed;
    struct timeval start_time, end_time;

    if (headerP->stats)
                  get_local_time(&headerP-
>clnt_end);
    else
                  return;

    /* Store the info for each client.
     * Note: Since we don't use mutex for performance
reason, pClientInfo
     *       may not be accurate if more than one
thread work on the same
     *       data at a same time. But this should
give us reasonable info.
     */
    if ((headerP->returncode == TPCC_SUCCESS) ||
        (headerP->returncode == INVALID_NEWO)) {
      tran_failed = 0;
    } else {
      pClientInfo->tran[tran_type].errs ++;
      pClientInfo->errors ++;
      tran_failed = 1;
    }
    if (headerP->stats && tran_type <= MAX_TRAN_TYPE
&& tran_type > 0
       && !tran_failed) {
         /* update total server round trip response
time */
           start_time.tv_sec = headerP-
>srv_start.sec;
           start_time.tv_usec = headerP-
>srv_start.usec;
           end_time.tv_sec = headerP->srv_end.sec;
           end_time.tv_usec = headerP->srv_end.usec;
         time_diff = time_diff_ms(&end_time,
&start_time);
        pClientInfo->tran[tran_type].RTtotal[1] +=
time_diff;
           DPRINT(("srv start_time %d.%d, end_time
%d.%d, time_diff %f\n",
                           start_time.tv_sec,
start_time.tv_usec,
                           end_time.tv_sec,
end_time.tv_usec,
                           time_diff));

         /* update total client round trip response
time */
           start_time.tv_sec = headerP-
>clnt_start.sec;
           start_time.tv_usec = headerP-
>clnt_start.usec;
           end_time.tv_sec = headerP->clnt_end.sec;
           end_time.tv_usec = headerP-
>clnt_end.usec;
         time_diff = time_diff_ms(&end_time,
&start_time);
         pClientInfo->tran[tran_type].RTtotal[0] +=
time_diff;
           DPRINT(("clnt start_time %d.%d, end_time
%d.%d, time_diff %f\n",
                           start_time.tv_sec,
start_time.tv_usec,
                           end_time.tv_sec,
end_time.tv_usec,
                           time_diff));

           /* update num for the number of trans
which have RT measured */
      pClientInfo->tran[tran_type].RTcount ++;

    }
}

/*
 *  The following send_*** functions are called from
CTPCC_ENCINA class.
 *
 */

/*
 *  send_new_order
 *        Send a new order request to the server
 */
int send_new_order(long length, unsigned char *dataP)
{
    trpc_status_t trpcStatus;
    data_header  header;

    PRE_RPC_WORK(&header, NEWO_TRANS, 0);

CALLTPCC(NewOrder,length,dataP,header,&trpcStatus)
    POST_RPC_WORK(&header, NEWO_TRANS);
    if (header.returncode == INVALID_NEWO)
          return TPCC_SUCCESS;
    else
          return header.returncode;
}

/*
 *  send_payment
 *        Send a payment request to the server
 */
int send_payment(long length, unsigned char *dataP)
{
    trpc_status_t trpcStatus;
    data_header  header;

    PRE_RPC_WORK(&header, PAYMENT_TRANS, 0);

CALLTPCC(Payment,length,dataP,header,&trpcStatus);
    POST_RPC_WORK(&header, PAYMENT_TRANS);
    return header.returncode;
}

/*
 *  send_order_status
 *        Send a order status request to the server
 */
int send_order_status(long length, unsigned char
*dataP)
{
    trpc_status_t trpcStatus;
    data_header  header;

    PRE_RPC_WORK(&header, ORDER_STAT_TRANS, 0);

CALLTPCC(OrderStatus,length,dataP,header,&trpcStatus)
;
    POST_RPC_WORK(&header, ORDER_STAT_TRANS);
    return header.returncode;
}

/*
 *  send_delivery
 *        Send a delivery request to the server
 */
int send_delivery(long length, unsigned char *dataP)
{
    trpc_status_t trpcStatus;
    data_header  header;

    PRE_RPC_WORK(&header, DELIVERY_TRANS, 0);

CALLTPCC(Delivery,length,dataP,header,&trpcStatus);
    POST_RPC_WORK(&header, DELIVERY_TRANS);
    return header.returncode;
}

/*
 *  send_stock_level
 *        Send a stock level request to the server
 */
int send_stock_level(long length, unsigned char
*dataP)
{
    trpc_status_t trpcStatus;
    data_header  header;

    PRE_RPC_WORK(&header, STOCK_TRANS, 0);

CALLTPCC(StockLevel,length,dataP,header,&trpcStatus);
    POST_RPC_WORK(&header, STOCK_TRANS);
    return header.returncode;
}



/*
 *  Enroll the client:
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
 *        get the necessary handles.
 *  This function should be called only once. Use
static var client_enrolled to control it.
 */
void enroll_client()
{
    static  char  *clientName="tpcc_client";
    unsigned long status ;
    static  int   client_enrolled = 0;
    unsigned32      client_authnLevel;
    unsigned32      client_authzSvc;
    time_type a_time;
          char err_msg[100];

    MUTEX_INIT(&init_lock);
    get_local_time(&a_time);
    srand(a_time.sec ^ a_time.usec);

    MUTEX_LOCK(&init_lock);
    if (client_enrolled) {
          MUTEX_UNLOCK(&init_lock);
                return;
    }

    /* open output file for tracing */
    errtpcc = fopen(errFile, "w");
    if(!errtpcc)
    {
                sprintf(err_msg, "Cannot open
file %s", errFile);
                CHK_STATUS(1,
ERROUT_FILE_NOT_FOUND,err_msg);
    }

    get_time_init();
          // initialize the space for perfmon
    pClientInfo = perfClntDataInit();
    if (pClientInfo == NULL)  // in case something
wrong
          pClientInfo =
malloc(sizeof(total_tran_count_t));
    memset(pClientInfo, 0,
sizeof(total_tran_count_t));

    read_mon_environment();

    if(!cellName)
          CHK_STATUS(30, CELL_NAME_UNAVAILABLE,
                   "ENCINA_TPM_CELL is not set!");

    if (useSecurity) {
                client_authnLevel =
rpc_c_protect_level_connect;
                client_authzSvc =
rpc_c_authz_dce;
    } else {
                client_authnLevel =
rpc_c_protect_level_none;
                client_authzSvc =
rpc_c_authz_none;
    }

    if (envRetrieval == 0) {

ENCINA_CALL_RC("mon_RetrieveEnable",mon_RetrieveEnabl
e(FALSE),status);
          CHK_STATUS(status, MON_RETRIEVEENABLE_FAILED,
                    "mon_RetrieveEnable failed");
    }

    err_printf("enroll_client: calling mon_InitClient
\n");

ENCINA_CALL_RC("mon_InitClient",mon_InitClient(client
Name,cellName),status);
    CHK_STATUS(status, MON_INITCLIENT_FAILED,
                 "mon_InitClient failed");

    DPRINT(("mon_SecuritySetDefaults-> authn %d,
authz %d\n",
              client_authnLevel, client_authzSvc));
    ENCINA_CALL_RC("mon_SecuritySetDefaults",

           mon_SecuritySetDefaults(client_authnLevel,c
lient_authzSvc),
                status);
    CHK_STATUS(status, MON_SECURITYSET_FAILED,
                "mon_SecuritySetDefaults failed");


ENCINA_CALL_RC("mon_SetHandleCacheRefreshInterval",

           mon_SetHandleCacheRefreshInterval(300),
status);
    CHK_STATUS(status, MON_SETREFRESHINTERVAL_FAILED,
                "mon_SetHandleCacheRefreshInterval
failed");

    {
        dbInfo_data_t data;
        trpc_status_t trpcStatus;
        /* Get DB Info -- currently id does not do
anything
            but it will tell us if there is a server
out there.
            Better to know instead of when all the
terminals
            are up and ready
         */
        impTPCCNOInfo(&data, &trpcStatus);
        if (trpcStatus) {
            char msg[100];
            sprintf(msg, "TRPC error during db info
at init.");
            encina_error_message(msg, trpcStatus);
            CHK_STATUS(33,NOINFO_TRPC_ERROR,
                        "TRPC error during db info at
init");
        }
    }

    client_enrolled = 1;
    MUTEX_UNLOCK(&init_lock);
    err_printf("end of enroll_client\n");
}


/*-------------------------------------------------
-----------*/
/*        Read environment paramaters and registry
entries      */
/*-------------------------------------------------
-----------*/
static void read_mon_environment()
{
    char *env_str;
    char    *registryKey =
"SOFTWARE\\TransarcCorporation\\TxTpcc";
    HKEY    hKey;
    DWORD   size;
    DWORD   type;
    char    szTmp[256];

    cellName = getenv("ENCINA_TPM_CELL");
    CHECK_ENVIRON(cellName, "ENCINA_TPM_CELL");

    if (env_str = getenv("TPCC_ENV_RETRIEVE")) {
        envRetrieval = atoi(env_str);
    }

    if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
registryKey, 0, KEY_READ, &hKey) != ERROR_SUCCESS )
        return;

    size = sizeof(szTmp);
    if ( RegQueryValueEx(hKey, "StatsFrequency", 0,
&type, szTmp, &size)==ERROR_SUCCESS)
        iStatsFrequency = atoi(szTmp);

    RegCloseKey(hKey);
}
```

mon_client.h

```
/*
 *        mon_client.h
 *
 */

#ifndef MON_CLIENT_H
#define MON_CLIENT_H

#define MUTEX_T CRITICAL_SECTION
#define MUTEX_LOCK(a) EnterCriticalSection(a)
#define MUTEX_UNLOCK(a) LeaveCriticalSection(a)
#define MUTEX_INIT(mut)
InitializeCriticalSection(mut)
#define MUTEX_DESTROY(mut) DeleteCriticalSection(mut)
#define ERROUT errtpcc

/*initialization status */
#define INIT_SUCCESS 0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
#define INIT_FAILED  1
#define CELL_NAME_UNAVAILABLE 2
#define MON_RETRIEVEENABLE_FAILED 3
#define MON_INITCLIENT_FAILED 4
#define MON_SECURITYSET_FAILED 5
#define MON_SETREFRESHINTERVAL_FAILED 6
#define NOINFO_TRPC_ERROR 7
#define ENROLL_CLIENT_EXCEPTION 8
#define ERROUT_FILE_NOT_FOUND 9
#define LOG_FILE_NOT_FOUND 10
#define TPCC_KEY_NOT_FOUND 11
#define TERM_ALLOC_FAILED 12

/*
 *  Routines and declarations that are common to all
clients
 */
#if defined(__cplusplus)
extern "C" {
#endif
int send_new_order(long, unsigned char *);
int send_payment(long, unsigned char *);
int send_order_status(long, unsigned char *);
int send_delivery(long, unsigned char *);
int send_stock_level(long, unsigned char *);
void enroll_client();
#if defined(__cplusplus)
}
#endif

#endif  /*  MON_CLIENT_H  */
```

neworder.h

```
#ifndef TRANSARC_neworder_h
#define TRANSARC_neworder_h

#include <trpc/trpc.h>
#include "_neworder.h"

#include <encina/c_prologue.h>

#if defined(BUILDDLL)
#define DLLEXPORT __declspec( dllexport )
#else
#define DLLEXPORT extern
#endif

#ifndef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define neworder_v1_0_c_ifspec
          _neworder_v1_0_c_ifspec
#define neworder_v1_0_s_ifspec
          _neworder_v1_0_s_ifspec

typedef struct neworder_v1_0_epv {
void (ENCINA_STUB_CALLING *impTPCCNewOrder) (
#ifdef IDL_PROTOTYPES

                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

void (ENCINA_STUB_CALLING *impTPCCNOInfo) (
#ifdef IDL_PROTOTYPES

                    dbInfo_data_t *dataP,
                    trpc_status_t *trpcStatus
#endif
);

} neworder_v1_0_epv_t;

DLLEXPORT void ENCINA_STUB_CALLING impTPCCNewOrder (
#ifdef IDL_PROTOTYPES

                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

DLLEXPORT void ENCINA_STUB_CALLING impTPCCNOInfo (
#ifdef IDL_PROTOTYPES

                    dbInfo_data_t *dataP,
                    trpc_status_t *trpcStatus
#endif
);

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

extern neworder_v1_0_epv_t
          neworder_v1_0_client_epv;
extern _neworder_v1_0_epv_t
          neworder_v1_0_manager_epv;
extern rpc_mgr_epv_t
          neworder_v1_0_mgr_epv;

#include <encina/c_epilogue.h>
#endif /* TRANSARC_neworder_h */
```

orderstatus.h

```
#ifndef TRANSARC_orderstatus_h
#define TRANSARC_orderstatus_h

#include <trpc/trpc.h>
#include "_orderstatus.h"

#include <encina/c_prologue.h>

#if defined(BUILDDLL)
#define DLLEXPORT __declspec( dllexport )
#else
#define DLLEXPORT extern
#endif

#ifndef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define orderstatus_v1_0_c_ifspec
          _orderstatus_v1_0_c_ifspec
#define orderstatus_v1_0_s_ifspec
          _orderstatus_v1_0_s_ifspec

typedef struct orderstatus_v1_0_epv {
void (ENCINA_STUB_CALLING *impTPCCOrderStatus) (
#ifdef IDL_PROTOTYPES

                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

} orderstatus_v1_0_epv_t;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
DLLEXPORT void ENCINA_STUB_CALLING impTPCCOrderStatus
(
#ifdef IDL_PROTOTYPES

                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

extern orderstatus_v1_0_epv_t
          orderstatus_v1_0_client_epv;
extern _orderstatus_v1_0_epv_t
          orderstatus_v1_0_manager_epv;
extern rpc_mgr_epv_t
          orderstatus_v1_0_mgr_epv;

#include <encina/c_epilogue.h>
#endif /* TRANSARC_orderstatus_h */
```

payment.h

```
#ifndef TRANSARC_payment_h

#define TRANSARC_payment_h

#include <trpc/trpc.h>
#include "_payment.h"

#include <encina/c_prologue.h>

#if defined(BUILDDLL)
#define DLLEXPORT __declspec( dllexport )
#else
#define DLLEXPORT extern
#endif

#ifndef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define payment_v1_0_c_ifspec _payment_v1_0_c_ifspec
#define payment_v1_0_s_ifspec _payment_v1_0_s_ifspec

typedef struct payment_v1_0_epv {
void (ENCINA_STUB_CALLING *impTPCCPayment) (
#ifdef IDL_PROTOTYPES

                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

} payment_v1_0_epv_t;

DLLEXPORT void ENCINA_STUB_CALLING impTPCCPayment (
#ifdef IDL_PROTOTYPES

                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

extern payment_v1_0_epv_t
          payment_v1_0_client_epv;
extern _payment_v1_0_epv_t
          payment_v1_0_manager_epv;
extern rpc_mgr_epv_t
          payment_v1_0_mgr_epv;

#include <encina/c_epilogue.h>
#endif /* TRANSARC_payment_h */
```

ReadRegistry.cpp

```
/*        FILE:                READREGISTRY.CPP
 *                                          Microsoft
TPC-C Kit Ver. 4.20.000
 *                                          Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                                          not yet
audited
 *
 *        PURPOSE:  Implementation for TPC-C Tuxedo
class.
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                  4.20.000 - first version
 */


/* FUNCTION: ReadTPCCRegistrySettings
 *
 * PURPOSE:         This function reads the NT
registry for startup parameters. There parameters are
 *                           under the TPCC key.
 *
 * RETURNS          FALSE = no errors
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
 *                              TRUE  = error reading
registry
 */
BOOL ReadTPCCRegistrySettings( TPCCREGISTRYDATA *pReg
)
{
          HKEY      hKey;
          DWORD     size;
          DWORD     type;
          DWORD     dwTmp;
          char      szTmp[256];

          if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SOFTWARE\\Microsoft\\TPCC", 0, KEY_READ, &hKey) !=
ERROR_SUCCESS )
                    return TRUE;

          // determine database protocol to use; may
be either ODBC or DBLIB
          pReg->eDB_Protocol = Unspecified;
          size = sizeof(szTmp);
          if ( RegQueryValueEx(hKey, "DB_Protocol",
0, &type, (BYTE *)&szTmp, &size) == ERROR_SUCCESS )
          {
                    if ( !stricmp(szTmp,
szDBNames[ODBC]) )
                              pReg->eDB_Protocol =
ODBC;
                    else if ( !stricmp(szTmp,
szDBNames[DBLIB]) )
                              pReg->eDB_Protocol =
DBLIB;
          }

          pReg->eTxnMon = None;
          // determine txn monitor to use; may be
either TUXEDO, or blank
          size = sizeof(szTmp);
          if ( RegQueryValueEx(hKey, "TxnMonitor", 0,
&type, (BYTE *)&szTmp, &size) == ERROR_SUCCESS )
          {
                    if ( !stricmp(szTmp,
szTxnMonNames[TUXEDO]) )
                              pReg->eTxnMon = TUXEDO;
                    else if ( !stricmp(szTmp,
szTxnMonNames[ENCINA]) )
                              pReg->eTxnMon = ENCINA;
                    else if ( !stricmp(szTmp,
szTxnMonNames[COM]) )
                              pReg->eTxnMon = COM;
          }

          pReg->bCOM_SinglePool = FALSE;
          size = sizeof(szTmp);
          if ( RegQueryValueEx(hKey,
"COM_SinglePool", 0, &type, (BYTE *)&szTmp, &size) ==
ERROR_SUCCESS )
          {
                    if ( !stricmp(szTmp, "YES") )
                              pReg->bCOM_SinglePool =
TRUE;
          }

          pReg->dwMaxConnections = 0;
          size = sizeof(dwTmp);
          if ( ( RegQueryValueEx(hKey,
"MaxConnections", 0, &type, (LPBYTE)&dwTmp, &size) ==
ERROR_SUCCESS )
                    && (type == REG_DWORD) )
                    pReg->dwMaxConnections = dwTmp;

          pReg->dwMaxPendingDeliveries = 0;
          size = sizeof(dwTmp);
          if ( ( RegQueryValueEx(hKey,
"MaxPendingDeliveries", 0, &type, (LPBYTE)&dwTmp,
&size) == ERROR_SUCCESS )
                    && (type == REG_DWORD) )
                    pReg->dwMaxPendingDeliveries =
dwTmp;

          pReg->dwNumberOfDeliveryThreads = 0;
          size = sizeof(dwTmp);
          if ( ( RegQueryValueEx(hKey,
"NumberOfDeliveryThreads", 0, &type, (LPBYTE)&dwTmp,
&size) == ERROR_SUCCESS )
                    && (type == REG_DWORD) )
                    pReg->dwNumberOfDeliveryThreads =
dwTmp;

          size = sizeof( pReg->szPath );
          if ( RegQueryValueEx(hKey, "Path", 0,
&type, (BYTE *)&pReg->szPath, &size) != ERROR_SUCCESS
)
                    pReg->szPath[0] = 0;

          size = sizeof( pReg->szDbServer );
          if ( RegQueryValueEx(hKey, "DbServer", 0,
&type, (BYTE *)&pReg->szDbServer, &size) !=
ERROR_SUCCESS )
                    pReg->szDbServer[0] = 0;

          size = sizeof( pReg->szDbName );
          if ( RegQueryValueEx(hKey, "DbName", 0,
&type, (BYTE *)&pReg->szDbName, &size) !=
ERROR_SUCCESS )
                    pReg->szDbName[0] = 0;

          size = sizeof( pReg->szDbUser );
          if ( RegQueryValueEx(hKey, "DbUser", 0,
&type, (BYTE *)&pReg->szDbUser, &size) !=
ERROR_SUCCESS )
                    pReg->szDbUser[0] = 0;

          size = sizeof( pReg->szDbPassword );
          if ( RegQueryValueEx(hKey, "DbPassword", 0,
&type, (BYTE *)&pReg->szDbPassword, &size) !=
ERROR_SUCCESS )
                    pReg->szDbPassword[0] = 0;

          size = sizeof( pReg->szSPPrefix );
          if ( RegQueryValueExW(hKey, L"SPPrefix", 0,
&type, (BYTE *)&pReg->szSPPrefix, &size) !=
ERROR_SUCCESS )
                    pReg->szSPPrefix[0] = L'\0';

          pReg->dwConnectDelay = 0;
          size = sizeof(dwTmp);
          if ( ( RegQueryValueEx(hKey,
"ConnectDelay", 0, &type, (LPBYTE)&dwTmp, &size) ==
ERROR_SUCCESS )
                    && (type == REG_DWORD) )
                    pReg->dwConnectDelay = dwTmp;

          pReg->bCallNoDuplicatesNewOrder = FALSE;
          size = sizeof(dwTmp);
          if ( ( RegQueryValueEx(hKey,
"CallNoDuplicatesNewOrder", 0, &type, (LPBYTE)&dwTmp,
&size) == ERROR_SUCCESS )
                    && (type == REG_DWORD) )
                    pReg->bCallNoDuplicatesNewOrder =
dwTmp;

          RegCloseKey(hKey);

          return FALSE;
}
```

ReadRegistry.h

```
/*        FILE:                ReadRegistry.h
 *                                        Microsoft
TPC-C Kit Ver. 4.20.000
 *                                        Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                                        not audited
 *
 *        PURPOSE:  Header for registry related code.
 *
 *  Change history:
 *                4.20.000 - first version
 */

enum DBPROTOCOL { Unspecified, ODBC, DBLIB };
const char *szDBNames[] = { "Unspecified", "ODBC",
"DBLIB" };

enum TXNMON { None, TUXEDO, ENCINA, COM };
const char *szTxnMonNames[] = { "NONE", "TUXEDO",
"ENCINA", "COM" };

//This structure defines the data necessary to keep
distinct for each terminal or client connection.
typedef struct _TPCCREGISTRYDATA
{
          enum DBPROTOCOL eDB_Protocol;
          enum TXNMON eTxnMon;
          BOOL bCOM_SinglePool;
          DWORD dwMaxConnections;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        DWORD dwMaxPendingDeliveries;
        DWORD dwNumberOfDeliveryThreads;
        char szPath[128];
        char szDbServer[32];
        char szDbName[32];
        char szDbUser[32];
        char szDbPassword[32];
        wchar_t szSPPrefix[32];
        //tpcc_odbc.dll stored procedures prefix
        DWORD dwConnectDelay;         // delay in
ms to use in pacing connection open and close
        BOOL bCallNoDuplicatesNewOrder;        //
whether to check for non-duplicate item ids and call
a different New Order SP
} TPCCREGISTRYDATA, *PTPCCREGISTRYDATA;

BOOL ReadTPCCRegistrySettings( TPCCREGISTRYDATA *pReg
);
```

RESOURCE.H

```
//{{NO_DEPENDENCIES}}
// Microsoft Visual C++ generated include file.
// Used by install.rc
//
#define IDD_DIALOG1                     101
#define IDI_ICON1                       102
#define IDR_TPCCDLL                     103
#define IDD_DIALOG2                     105
#define IDI_ICON2                       106
#define IDR_DELIVERY                    107
#define IDD_DIALOG3                     108
#define IDR_LICENSE1                    112
#define IDD_DIALOG4                     113
#define IDR_TPCCOBJ1                    117
#define IDR_TPCCSTUB1                   118
#define IDR_DBLIB_DLL                   122
#define IDR_ODBC_DLL                    123
#define IDR_TUXEDO_APP                  124
#define IDR_TUXEDO_DLL                  125
#define IDR_COM_DLL                     126
#define IDR_COMPS_DLL                   127
#define IDR_COMALL_DLL                  128
#define IDR_COMTYPLIB_DLL               129
#define IDR_MSVCRT701                   130
#define BN_LOG                          1001
#define ED_KEEP                         1002
#define ED_THREADS                      1003
#define ED_THREADS2                     1004
#define IDC_PATH                        1007
#define IDC_VERSION                     1009
#define IDC_RESULTS                     1010
#define IDC_PROGRESS1                   1011
#define IDC_STATUS                      1012
#define IDC_BUTTON1                     1013
#define ED_MAXCONNECTION                1014
#define ED_IIS_MAX_THEAD_POOL_LIMIT     1015
#define ED_MAXDELIVERIES                1016
#define ED_WEB_SERVICE_BACKLOG_QUEUE_SIZE 1017
#define ED_IIS_THREAD_TIMEOUT           1018
#define ED_IIS_LISTEN_BACKLOG           1019
#define IDC_DBLIB                       1021
#define IDC_LICENSE                     1022
#define IDC_ODBC                        1022
#define IDC_CONNECT_POOL                1023
#define ED_DB_SERVER                    1023
#define ED_USER_CONNECT_DELAY_TIME      1024
#define ED_DB_USER_ID                   1024
#define IDC_MTS                         1025
#define IDC_TM_MTS                      1025
#define IDC_TM_TUXEDO                   1026
#define IDC_TM_NONE                     1027
#define ED_DB_PASSWORD                  1028
#define ED_DB_NAME                      1029
#define IDC_TM_ENCINA                   1030

// Next default values for new objects
//
#ifdef APSTUDIO_INVOKED
#ifndef APSTUDIO_READONLY_SYMBOLS
#define _APS_NEXT_RESOURCE_VALUE        131
#define _APS_NEXT_COMMAND_VALUE         40001
#define _APS_NEXT_CONTROL_VALUE         1031
#define _APS_NEXT_SYMED_VALUE           101
#endif
#endif
```

stocklevel.h

```
#ifndef TRANSARC_stocklevel_h
#define TRANSARC_stocklevel_h

#include <trpc/trpc.h>
#include "_stocklevel.h"

#include <encina/c_prologue.h>

#if defined(BUILDDLL)
#define DLLEXPORT __declspec( dllexport )
#else
#define DLLEXPORT extern
#endif

#ifndef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define stocklevel_v1_0_c_ifspec
          _stocklevel_v1_0_c_ifspec
#define stocklevel_v1_0_s_ifspec
          _stocklevel_v1_0_s_ifspec

typedef struct stocklevel_v1_0_epv {
void (ENCINA_STUB_CALLING *impTPCCStockLevel) (
#ifdef IDL_PROTOTYPES

                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

} stocklevel_v1_0_epv_t;

DLLEXPORT void ENCINA_STUB_CALLING impTPCCStockLevel
(
#ifdef IDL_PROTOTYPES

                    idl_long_int length,
                    idl_char *dataP,
                    data_header *headerP,
                    trpc_status_t *trpcStatus
#endif
);

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

trpc_handle_t        ENCINA_CALLING
mon_handle_t_tranBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

void       ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
          mon_handle_t        handle,
          trpc_handle_t       trpcHandle,
          trpc_tranInfo_t     *tranInfoP,
          trpc_ifSpec_t *ifSpecP
#endif
          );

extern stocklevel_v1_0_epv_t
          stocklevel_v1_0_client_epv;
extern _stocklevel_v1_0_epv_t
          stocklevel_v1_0_manager_epv;
extern rpc_mgr_epv_t
          stocklevel_v1_0_mgr_epv;

#include <encina/c_epilogue.h>
#endif /* TRANSARC_stocklevel_h */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

tpcc.cpp

```
/*        FILE:                TPCC.C
 *                                     Microsoft
TPC-C Kit Ver. 4.20.000
 *                                     Copyright
Microsoft, 1999
 *             All Rights Reserved
 *
 *                                     Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Main module for TPCC.DLL which is
an ISAPI service dll.
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                  4.20.000 - reworked error
handling; added options for COM and Encina txn
monitors
 */

#include <windows.h>
#include <process.h>
#include <tchar.h>
#include <stdio.h>
#include <stdarg.h>
#include <malloc.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <io.h>
#include <assert.h>

#include <sqltypes.h>

#ifdef ICECAP
#include <icapexp.h>
#endif

#include "..\..\common\src\trans.h"
          //tpckit transaction header contains
definations of structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\ReadRegistry.h"

#include "..\..\common\txnlog\include\rtetime.h"
#include "..\..\common\txnlog\include\spinlock.h"
#include "..\..\common\txnlog\include\txnlog.h"

// Database layer includes
#include "..\..\db_dblib_dll\src\tpcc_dblib.h"
          // DBLIB implementation of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h"
          // ODBC implementation of TPC-C txns

// Txn monitor layer includes
#include "..\..\tm_com_dll\src\tpcc_com.h"
                    // COM Services implementation on
TPC-C txns
#include "..\..\tm_tuxedo_dll\src\tpcc_tux.h"
          // interface to Tuxedo libraries
#include "..\..\tm_encina_dll\src\tpcc_enc.h"
          // interface to Encina libraries

#include "httpext.h"
          //ISAPI DLL information header
#include "tpcc.h"
          //this dlls specific structure, value e.t.
header.


#define   LEN_ERR_STRING      256

// defines for Make<Txn>Form calls to distinguish
input and output flavors
#define   OUTPUT_FORM         0
#define INPUT_FORM  1

char
          szMyComputerName[MAX_COMPUTERNAME_LENGTH+1]
;

//Terminal client id structure
TERM      Term = { 0, 0, 0, NULL };

// The WEBCLIENT_VERSION string specifies the version
level of this web client interface.
// The RTE must be synchronized with the interface
level on login, otherwise the login
// will fail.  This is a sanity check to catch
problems resulting from mismatched versions
// of the RTE and web client.
#define WEBCLIENT_VERSION "420"

static    CRITICAL_SECTION
          TermCriticalSection;

static  HINSTANCE hLibInstanceTm = NULL;
static  HINSTANCE hLibInstanceDb = NULL;

TYPE_CTPCC_DBLIB    *pCTPCC_DBLIB_new;
TYPE_CTPCC_ODBC               *pCTPCC_ODBC_new;
TYPE_CTPCC_TUXEDO   *pCTPCC_TUXEDO_new;
TYPE_CTPCC_ENCINA   *pCTPCC_ENCINA_new;
TYPE_CTPCC_ENCINA   *pCTPCC_ENCINA_post_init;
TYPE_CTPCC_COM                *pCTPCC_COM_new;

// For deferred Delivery txns:

CTxnLog
          *txnDelilog = NULL;
          //used to log delivery transaction
information

HANDLE
          hWorkerSemaphore    = INVALID_HANDLE_VALUE;
HANDLE
          hDoneEvent                                =
INVALID_HANDLE_VALUE;
HANDLE
          *pDeliHandles                 = NULL;

// configuration settings from registry
TPCCREGISTRYDATA              Reg;


DWORD
          dwNumDeliveryThreads = 4;
CRITICAL_SECTION              DelBuffCriticalSection;
                    //critical section for delivery
transactions cache
DELIVERY_TRANSACTION          *pDelBuff
          = NULL;
DWORD
          dwDelBuffSize                 = 100;
          // size of circular buffer for delivery
txns
DWORD
          dwDelBuffFreeCount;
          // number of buffers free
DWORD
          dwDelBuffBusyIndex  = 0;                //
index position of entry waiting to be delivered
DWORD
          dwDelBuffFreeIndex  = 0;                //
index position of unused entry

// Critical section to synchronize connection open
and close.
//
CRITICAL_SECTION hConnectCriticalSection;

#include "..\..\common\src\ReadRegistry.cpp"

/* FUNCTION: DllMain
 *
 * PURPOSE:         This function is the entry point
for the DLL.  This implementation is based on the
 *                           fact that
DLL_PROCESS_ATTACH is only called from the inet
service once.
 *
 * ARGUMENTS:       HANDLE    hModule
                    module handle
 *                                     DWORD
          ul_reason_for_call  reason for call
 *                                     LPVOID
          lpReserved
          reserved for future use
 *
 * RETURNS:                   BOOL      FALSE
                             errors occured in
initialization
 *
          TRUE                                      DLL
successfully initialized
 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
BOOL APIENTRY DllMain(HANDLE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{
          DWORD  i;
          char szEvent[LEN_ERR_STRING] = "\0";
          char szLogFile[128];
          char szDllName[128];

// debugging....
// DebugBreak();

          try
          {
                    switch( ul_reason_for_call )
                    {
                              case
DLL_PROCESS_ATTACH:
                                        {

          DWORD dwSize = MAX_COMPUTERNAME_LENGTH+1;

          GetComputerName(szMyComputerName, &dwSize);

          szMyComputerName[dwSize] = 0;
                                        }


          DisableThreadLibraryCalls((HMODULE)hModule)
;

          InitializeCriticalSection(&TermCriticalSect
ion);

                                        if (
ReadTPCCRegistrySettings( &Reg ) )

          throw new CWEBCLNT_ERR(
ERR_MISSING_REGISTRY_ENTRIES );

                                        dwDelBuffSize
= min( Reg.dwMaxPendingDeliveries, 10000 );  // min
with 10000 as a sanity constraint

          dwNumDeliveryThreads = min(
Reg.dwNumberOfDeliveryThreads, 100 );  // min with
100 as a sanity constraint

                                        TermInit();

                                        // load DLL
for txn monitor
                                        if
(Reg.eTxnMon == TUXEDO)
                                        {

          strcpy( szDllName, Reg.szPath );

          strcat( szDllName, "tpcc_tuxedo.dll");

          hLibInstanceTm = LoadLibrary( szDllName );
                                                  if
(hLibInstanceTm == NULL)

          throw new CWEBCLNT_ERR( ERR_LOADDLL_FAILED,
szDllName, GetLastError() );

                                                  //
get function pointer to wrapper for class constructor

          pCTPCC_TUXEDO_new = (TYPE_CTPCC_TUXEDO*)
GetProcAddress(hLibInstanceTm,"CTPCC_TUXEDO_new");
                                                  if
(pCTPCC_TUXEDO_new == NULL)

          throw new CWEBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                                        }
                                        else if
(Reg.eTxnMon == ENCINA)
                                        {

          strcpy( szDllName, Reg.szPath );

          strcat( szDllName, "tpcc_encina.dll");

          hLibInstanceTm = LoadLibrary( szDllName );
                                                  if
(hLibInstanceTm == NULL)

          throw new CWEBCLNT_ERR( ERR_LOADDLL_FAILED,
szDllName, GetLastError() );
                                                  //
get function pointer to wrapper for class constructor

          pCTPCC_ENCINA_new = (TYPE_CTPCC_ENCINA*)
GetProcAddress(hLibInstanceTm,"CTPCC_ENCINA_new");

          pCTPCC_ENCINA_post_init =
(TYPE_CTPCC_ENCINA*)
GetProcAddress(hLibInstanceTm,"CTPCC_ENCINA_post_init
");
                                                  if
(pCTPCC_ENCINA_new == NULL)

          throw new CWEBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                                        }
                                        else if
(Reg.eTxnMon == COM)
                                        {

          strcpy( szDllName, Reg.szPath );

          strcat( szDllName, "tpcc_com.dll");

          hLibInstanceTm = LoadLibrary( szDllName );
                                                  if
(hLibInstanceTm == NULL)

          throw new CWEBCLNT_ERR( ERR_LOADDLL_FAILED,
szDllName, GetLastError() );
                                                  //
get function pointer to wrapper for class constructor

          pCTPCC_COM_new = (TYPE_CTPCC_COM*)
GetProcAddress(hLibInstanceTm,"CTPCC_COM_new");
                                                  if
(pCTPCC_COM_new == NULL)

          throw new CWEBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                                        }

                                        // load DLL
for database connection
                                        if
((Reg.eTxnMon == None) || (dwNumDeliveryThreads > 0))
                                        {
                                                  if
(Reg.eDB_Protocol == DBLIB)
                                                  {

          strcpy( szDllName, Reg.szPath );

          strcat( szDllName, "tpcc_dblib.dll");

          hLibInstanceDb = LoadLibrary( szDllName );

          if (hLibInstanceDb == NULL)

                    throw new CWEBCLNT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );


          // get function pointer to wrapper for
class constructor

          pCTPCC_DBLIB_new = (TYPE_CTPCC_DBLIB*)
GetProcAddress(hLibInstanceDb,"CTPCC_DBLIB_new");

          if (pCTPCC_DBLIB_new == NULL)

                    throw new CWEBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                                                  }
          else if (Reg.eDB_Protocol == ODBC)
                                                  {

          strcpy( szDllName, Reg.szPath );

          strcat( szDllName, "tpcc_odbc.dll");

          hLibInstanceDb = LoadLibrary( szDllName );

          if (hLibInstanceDb == NULL)

                    throw new CWEBCLNT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        // get function pointer to wrapper for
class constructor

        pCTPCC_ODBC_new = (TYPE_CTPCC_ODBC*)
GetProcAddress(hLibInstanceDb,"CTPCC_ODBC_new");

        if (pCTPCC_ODBC_new == NULL)

                throw new CWEBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );

                                                }
                                        }

                                        if
(dwNumDeliveryThreads)
                                        {
                                                //
Initialize delivery delay critical section
                                                //

        InitializeCriticalSection(&hConnectCritical
Section);

                                                //
for deferred delivery txns:

        hDoneEvent = CreateEvent( NULL, TRUE /*
manual reset */, FALSE /* initially not signalled */,
NULL );

        InitializeCriticalSection(&DelBuffCriticalS
ection);

        hWorkerSemaphore = CreateSemaphore( NULL,
0, dwDelBuffSize, NULL );

        dwDelBuffFreeCount = dwDelBuffSize;


        InitJulianTime(NULL);

                                                //
create unique log file name based on delilog-yymmdd-
hhmm.log

        SYSTEMTIME Time;

        GetLocalTime( &Time );

        wsprintf( szLogFile, "%sdelivery-
%2.2d%2.2d%2.2d-%2.2d%2.2d-%2.2ds%2.2dms.log",

        Reg.szPath, Time.wYear % 100, Time.wMonth,
Time.wDay, Time.wHour, Time.wMinute, Time.wSecond,
Time.wMilliseconds );

        txnDelilog = new CTxnLog(szLogFile,
TXN_LOG_WRITE);

        //write event into txn log for START

        txnDelilog-
>WriteCtrlRecToLog(TXN_EVENT_START, szMyComputerName,
sizeof(szMyComputerName));

                                                //
allocate structures for delivery buffers and thread
mgmt

        pDeliHandles = new
HANDLE[dwNumDeliveryThreads];

        pDelBuff = new
DELIVERY_TRANSACTION[dwDelBuffSize];
                                                //
launch DeliveryWorkerThread to perform actual
delivery txns

        for(i=0; i<dwNumDeliveryThreads; i++)
                                                {

        pDeliHandles[i] = (HANDLE) _beginthread(
DeliveryWorkerThread, 0, NULL );

        if (pDeliHandles[i] ==
INVALID_HANDLE_VALUE)

                throw new CWEBCLNT_ERR(
ERR_DELIVERY_THREAD_FAILED );
                                                }
                                        }

                                        break;

                                case
DLL_PROCESS_DETACH:
                                        if
(dwNumDeliveryThreads)
                                        {
                                                if
(txnDelilog != NULL)
                                                {

        //write event into txn log for STOP

        txnDelilog-
>WriteCtrlRecToLog(TXN_EVENT_STOP, szMyComputerName,
sizeof(szMyComputerName));


        // This will do a clean shutdown of the
delivery log file

        CTxnLog   *txnDelilogLocal = txnDelilog;

        txnDelilog= NULL;

        delete txnDelilogLocal;
                                                }

        delete [] pDeliHandles;

        delete [] pDelBuff;


        CloseHandle( hWorkerSemaphore );

        CloseHandle( hDoneEvent );

        DeleteCriticalSection(&DelBuffCriticalSecti
on);

                                                //
Delete delivery delay critical section
                                                //

        DeleteCriticalSection(&hConnectCriticalSect
ion);
                                        }


        DeleteCriticalSection(&TermCriticalSection)
;

                                        if
(hLibInstanceTm != NULL)

        FreeLibrary( hLibInstanceTm );

        hLibInstanceTm = NULL;

                                        if
(hLibInstanceDb != NULL)

        FreeLibrary( hLibInstanceDb );

        hLibInstanceDb = NULL;

                                        Sleep(500);
                                        break;

                                default:
                                        /* nothing
*/;
                }
        }
        catch (CBaseErr *e)
        {
                TCHAR szMsg[256];

                _sntprintf(szMsg, sizeof(szMsg),
"%s error, code %d: %s",
                                        e-
>ErrorTypeStr(), e->ErrorNum(), e->ErrorText());
                WriteMessageToEventLog( szMsg );
                delete e;
                TerminateExtension(0);
                return FALSE;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        }
        catch (...)
        {

        WriteMessageToEventLog(TEXT("Unhandled
exception.  DLL could not load."));
                TerminateExtension(0);
                return FALSE;
        }

        return TRUE;
}


/* FUNCTION: GetExtensionVersion
 *
 * PURPOSE:         This function is called by the
inet service when the DLL is first loaded.
 *
 * ARGUMENTS:       HSE_VERSION_INFO    *pVer
        passed in structure in which to place
expected version number.
 *
 * RETURNS:                 TRUE      inet service
expected return value.
 */

BOOL WINAPI GetExtensionVersion(HSE_VERSION_INFO
*pVer)
{
        pVer->dwExtensionVersion =
MAKELONG(HSE_VERSION_MINOR, HSE_VERSION_MAJOR);
        lstrcpyn(pVer->lpszExtensionDesc, "TPC-C
Server.", HSE_MAX_EXT_DLL_NAME_LEN);

        // TODO: why do we need this here instead
of in the DLL attach?
        if (Reg.eTxnMon == ENCINA)
                pCTPCC_ENCINA_post_init();

        return TRUE;
}

/* FUNCTION: TerminateExtension
 *
 * PURPOSE:         This function is called by the
inet service when the DLL is about to be unloaded.
 *                          Release all resources
in anticipation of being unloaded.
 *
 * RETURNS:                 TRUE      inet service
expected return value.
 */

BOOL WINAPI TerminateExtension( DWORD dwFlags )
{
        if (pDeliHandles)
        {
                SetEvent( hDoneEvent );
                for(DWORD i=0;
i<dwNumDeliveryThreads; i++)
                        WaitForSingleObject(
pDeliHandles[i], INFINITE );
        }

        TermDeleteAll();
        return TRUE;
}


/* FUNCTION: HttpExtensionProc
 *
 * PURPOSE:         This function is the main entry
point for the TPCC DLL. The internet service
 *                          calls this function
passing in the http string.
 *
 * ARGUMENTS:       EXTENSION_CONTROL_BLOCK
        *pECB     structure pointer to passed in
internet
 *
                  service information.
 *
 * RETURNS:                 DWORD
        HSE_STATUS_SUCCESS
                  connection can be dropped if
error
 *
        HSE_STATUS_SUCCESS_AND_KEEP_CONN
        keep connect valid comment sent
 *
 * COMMENTS:        None
 *
 */

DWORD WINAPI
HttpExtensionProc(EXTENSION_CONTROL_BLOCK *pECB)
{
        int                         iCmd, FormId,
TermId, iSyncId;
        char                szBuffer[4096];

        int                         lpbSize;
        static char         szHeader[] = "200 Ok";
        DWORD               dwSize = 6;
        // initial value is strlen(szHeader)
        char                szHeader1[4096];


#ifdef ICECAP
        StartCAP();
#endif

        try
        {
                //process http query
                ProcessQueryString(pECB, &iCmd,
&FormId, &TermId, &iSyncId);

                if (TermId != 0)
                {
                        if ( TermId < 0 ||
TermId >= Term.iNumEntries ||
Term.pClientData[TermId].iNextFree != -1 )
                        {
                                //
debugging...
                                char
szTmp[128];
                                wsprintf(
szTmp, "Invalid term ID; TermId = %d", TermId );

        WriteMessageToEventLog( szTmp );

                                throw new
CWEBCLNT_ERR( ERR_INVALID_TERMID );
                        }

                        //must have a valid
syncid here since termid is valid
                        if (iSyncId !=
Term.pClientData[TermId].iSyncId)
                                throw new
CWEBCLNT_ERR( ERR_INVALID_SYNC_CONNECTION );

                        //set use time

        Term.pClientData[TermId].iTickCount =
GetTickCount();
                }


                switch(iCmd)
                {
                case 0:
                        WelcomeForm(pECB,
szBuffer);
                        break;
                case 1:
                        switch( FormId )
                        {
                                case
WELCOME_FORM:
                                case
MAIN_MENU_FORM:

        break;
                                case
NEW_ORDER_FORM:

        ProcessNewOrderForm(pECB, TermId,
szBuffer);

        break;
                                case
PAYMENT_FORM:

        ProcessPaymentForm(pECB, TermId, szBuffer);

        break;
                                case
DELIVERY_FORM:
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          ProcessDeliveryForm(pECB, TermId,
szBuffer);

          break;
                                        case
ORDER_STATUS_FORM:

          ProcessOrderStatusForm(pECB, TermId,
szBuffer);

          break;
                                        case
STOCK_LEVEL_FORM:

          ProcessStockLevelForm(pECB, TermId,
szBuffer);

          break;
                              }
                              break;
                    case 2:
                              // new-order selected
from menu; display new-order input form

          MakeNewOrderForm(TermId, NULL, INPUT_FORM,
szBuffer);
                              break;
                    case 3:
                              // payment selected
from menu; display payment input form
                              MakePaymentForm(TermId,
NULL, INPUT_FORM, szBuffer);
                              break;
                    case 4:
                              // delivery selected
from menu; display delivery input form

          MakeDeliveryForm(TermId, NULL, INPUT_FORM,
szBuffer);
                              break;
                    case 5:
                              // order-status
selected from menu; display order-status input form

          MakeOrderStatusForm(TermId, NULL,
INPUT_FORM, szBuffer);
                              break;
                    case 6:
                              // stock-level selected
from menu; display stock-level input form

          MakeStockLevelForm(TermId, NULL,
INPUT_FORM, szBuffer);
                              break;
                    case 7:
                              // ExitCmd
                              TermDelete(TermId);
                              WelcomeForm(pECB,
szBuffer);
                              break;
                    case 8:
                              SubmitCmd(pECB,
szBuffer);
                              break;
                    case 9:
                              // menu

          MakeMainMenuForm(TermId,
Term.pClientData[TermId].iSyncId, szBuffer);
                              break;
                    case 10:
                              // CMD=Clear
                              // resets all
connections; should only be used when no other
connections are active
                              TermDeleteAll();
                              TermInit();
                              WelcomeForm(pECB,
szBuffer);
                              break;
                    case 11:  // CMD=Stats
                              StatsCmd(pECB,
szBuffer);
                              break;
                    }
          }
          catch (CBaseErr *e)
          {
                    ErrorForm( pECB, e->ErrorType(),
e->ErrorNum(), TermId, iSyncId, e->ErrorText(),
szBuffer );
                    delete e;
          }
          catch (...)
          {
                    ErrorForm( pECB, ERR_TYPE_WEBDLL,
0, TermId, iSyncId, "Error: Unhandled exception in
Web Client.", szBuffer );
          }

#ifdef ICECAP
          StopCAP();
#endif


          lpbSize = strlen(szBuffer);
          wsprintf(szHeader1,
                              "Content-Type:
text/html\r\n"
                              "Content-Length:
%d\r\n"
                              "Connection: Keep-
Alive\r\n\r\n" , lpbSize);
          strcat( szHeader1, szBuffer );

          (*pECB->ServerSupportFunction)(pECB-
>ConnID, HSE_REQ_SEND_RESPONSE_HEADER, szHeader,
(LPDWORD) &dwSize, (LPDWORD)szHeader1);

          //finish up and keep connection
          pECB->dwHttpStatusCode = 200;
          return HSE_STATUS_SUCCESS_AND_KEEP_CONN;
}


void WriteMessageToEventLog(LPTSTR lpszMsg)
{
    TCHAR   szMsg[256];
    HANDLE  hEventSource;
    LPTSTR  lpszStrings[2];

    // Use event logging to log the error.
    //
    hEventSource = RegisterEventSource(NULL,
TEXT("TPCC.DLL"));

    _stprintf(szMsg, TEXT("Error in TPCC.DLL: "));
    lpszStrings[0] = szMsg;
    lpszStrings[1] = lpszMsg;

    if (hEventSource != NULL)
        {
        ReportEvent(hEventSource, // handle of event
source
            EVENTLOG_ERROR_TYPE,  // event type
            0,                    // event category
            0,                    // event ID
            NULL,                 // current user's
SID
            2,                    // strings in
lpszStrings
            0,                    // no bytes of raw
data
            (LPCTSTR *)lpszStrings,    // array of
error strings
            NULL);                // no raw data

        (VOID) DeregisterEventSource(hEventSource);
    }
}


/* FUNCTION: DeliveryWorkerThread
 *
 * PURPOSE:         This function processes deferred
delivery txns.  There are typically several
 *                              threads running this
routine.  The number of threads is determined by an
entry
 *                              read from the registry.
The thread waits for work by waiting on semaphore.
 *                              When a delivery txn is
posted, the semaphore is released.  After processing
 *                              the delivery txn,
information is logged to record the txn status and
execution
 *                              time.
 */

/*static*/ void DeliveryWorkerThread(void *ptr)
{
          CTPCC_BASE                    *pTxn = NULL;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        DELIVERY_TRANSACTION
        delivery;
        PDELIVERY_DATA
        pDeliveryData;
        TXN_RECORD_TPCC_DELIV_DEF     txnDeliRec;

        DWORD
        index;
        HANDLE
        handles[2];

        SYSTEMTIME                    trans_end;
                //delivery transaction finished
time
        SYSTEMTIME                    trans_start;
        //delivery transaction start time

        assert(txnDelilog != NULL);

        try
        {
                if (Reg.eDB_Protocol == ODBC)
                {
                        if (Reg.dwConnectDelay
> 0)
                        {
                                //
Synchronize connect (for VIA)
                                //

        EnterCriticalSection(&hConnectCriticalSecti
on);


        Sleep(Reg.dwConnectDelay);

                                pTxn =
pCTPCC_ODBC_new( Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword,


        szMyComputerName, Reg.szDbName,


        Reg.szSPPrefix,
Reg.bCallNoDuplicatesNewOrder );


        LeaveCriticalSection(&hConnectCriticalSecti
on);
                        }
                }
                else
                {
                        if (Reg.eDB_Protocol ==
DBLIB)
                                pTxn =
pCTPCC_DBLIB_new( Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword, szMyComputerName, Reg.szDbName );
                }
                        pDeliveryData = pTxn-
>BuffAddr_Delivery();
        }
        catch (CBaseErr *e)
        {
                char szTmp[1024];
                wsprintf( szTmp, "Error in
Delivery Txn thread.  Could not connect to database.
"
                                        "%s.
Server=%s, User=%s, Password=%s, Database=%s",
                                        e-
>ErrorText(), Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword, Reg.szDbName );
                WriteMessageToEventLog( szTmp );
                delete e;
                goto ErrorExit;
        }
        catch (...)
        {

        WriteMessageToEventLog(TEXT("Unhandled
exception caught in DeliveryWorkerThread."));
                goto ErrorExit;
        }

        while (TRUE)
        {
                try
                {
                        //while delivery thread
running, i.e. user has not requested termination
                        while (TRUE)
                        {
                                // need to
wait for multiple objects: program exit or worker
semaphore;
                                handles[0] =
hDoneEvent;
                                handles[1] =
hWorkerSemaphore;
                                index =
WaitForMultipleObjects( 2, &handles[0], FALSE,
INFINITE );
                                if (index ==
WAIT_OBJECT_0)

        goto ErrorExit;


        ZeroMemory(&txnDeliRec,
sizeof(txnDeliRec));

        txnDeliRec.TxnType =
TXN_REC_TYPE_TPCC_DELIV_DEF;

                                // make a
local copy of current entry from delivery buffer and
increment buffer index

        EnterCriticalSection(&DelBuffCriticalSectio
n);
                                delivery =
*(pDelBuff+dwDelBuffBusyIndex);

        dwDelBuffFreeCount++;

        dwDelBuffBusyIndex++;
                                if
(dwDelBuffBusyIndex == dwDelBuffSize)   // wrap-
around if at end of buffer

        dwDelBuffBusyIndex = 0;


        LeaveCriticalSection(&DelBuffCriticalSectio
n);


        pDeliveryData->w_id = delivery.w_id;

        pDeliveryData->o_carrier_id =
delivery.o_carrier_id;


        txnDeliRec.w_id = pDeliveryData->w_id;

        txnDeliRec.o_carrier_id = pDeliveryData-
>o_carrier_id;

        txnDeliRec.TxnStartT0 =
Get64BitTime(&delivery.queue);

                                GetLocalTime(
&trans_start );
                                pTxn-
>Delivery();
                                GetLocalTime(
&trans_end );

                                //log txn

        txnDeliRec.TxnStatus = ERR_SUCCESS;
                                for (int i=0;
i<10; i++)

        txnDeliRec.o_id[i] = pDeliveryData-
>o_id[i];

        txnDeliRec.DeltaT4 =
(int)(Get64BitTime(&trans_end) -
txnDeliRec.TxnStartT0);

        txnDeliRec.DeltaTxnExec =
(int)(Get64BitTime(&trans_end) -
Get64BitTime(&trans_start));

                                if
(txnDelilog != NULL)
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        txnDelilog->WriteToLog(&txnDeliRec);
                        }
                }
                catch (CBaseErr *e)
                {
                        char szTmp[1024];
                        wsprintf( szTmp, "%s
Error (code %d) in Delivery Txn thread. %s",

e->ErrorTypeStr(), e->ErrorNum(), e->ErrorText() );
                        WriteMessageToEventLog(
szTmp );

                        // log the error txn
                        txnDeliRec.TxnStatus =
e->ErrorType();
                        if (txnDelilog != NULL)
                                txnDelilog-
>WriteToLog(&txnDeliRec);

                        delete e;
                }
                catch (...)
                {
                        // unhandled exception;
shouldn't happen; not much we can do...

        WriteMessageToEventLog(TEXT("Unhandled
exception caught in DeliveryWorkerThread."));
                }
        }

ErrorExit:
        if (Reg.dwConnectDelay > 0)
        {
                // Synchronize disconnect (for
VIA)
                //

        EnterCriticalSection(&hConnectCriticalSecti
on);

                Sleep(Reg.dwConnectDelay);

                delete pTxn;


        LeaveCriticalSection(&hConnectCriticalSecti
on);
        }

        _endthread();
}

/* FUNCTION: PostDeliveryInfo
 *
 * PURPOSE:         This function enters the delivery
txn into the deferred delivery buffer.
 *
 * RETURNS:                 BOOL      FALSE
        delivery information posted successfully
 *
        TRUE      error cannot post delivery info
 */

BOOL PostDeliveryInfo(long w_id, short o_carrier_id)
{
        BOOL bError;

        EnterCriticalSection(&DelBuffCriticalSectio
n);
        if (dwDelBuffFreeCount > 0)
        {
                bError = FALSE;
                (pDelBuff+dwDelBuffFreeIndex)-
>w_id                   = w_id;
                (pDelBuff+dwDelBuffFreeIndex)-
>o_carrier_id       = o_carrier_id;

        GetLocalTime(&(pDelBuff+dwDelBuffFreeIndex)
->queue);

                dwDelBuffFreeCount--;
                dwDelBuffFreeIndex++;
                if (dwDelBuffFreeIndex ==
dwDelBuffSize)
                        dwDelBuffFreeIndex = 0;
                // wrap-around if at end of
buffer
        }
        else
                // No free buffers.  Return an
error, which indicates that the delivery buffer is
full.
                // Most likely, the number of
delivery worker threads needs to be increased to keep
up
                // with the txn rate.
                bError = TRUE;
        LeaveCriticalSection(&DelBuffCriticalSectio
n);

        if (!bError)
                // increment worker semaphore to
wake up a worker thread
                ReleaseSemaphore(
hWorkerSemaphore, 1, NULL );

        return bError;
}

/* FUNCTION: ProcessQueryString
 *
 * PURPOSE:         This function extracts the
relevent information out of the http command passed
in from
 *                          the browser.
 *
 * COMMENTS:        If this is the initial connection
i.e. client is at welcome screen then
 *                                  there will
not be a terminal id or current form id.  If this is
the case
 *                                  then the
pTermid and pFormid return values are undefined.
 */

void ProcessQueryString(EXTENSION_CONTROL_BLOCK
*pECB, int *pCmd, int *pFormId, int *pTermId, int
*pSyncId)
{
        char *ptr = pECB->lpszQueryString;
        char szBuffer[25];
        int i;

        //allowable client command strings i.e.
CMD=command
        static char *szCmds[] =
        {
                "Process", "..NewOrder..",
"..Payment..", "..Delivery..", "..Order-Status..",
"..Stock-Level..",
                "..Exit..", "Submit", "Menu",
"Clear", "Stats", ""
        };

        *pCmd      = 0;               // default is
the login screen
        *pTermId = 0;

        // if no params (i.e., empty query string),
then return login screen
        if (strlen(pECB->lpszQueryString) == 0)
                return;

        // parse FORMID, TERMID, and SYNCID
        *pFormId = GetIntKeyValue(&ptr, "FORMID",
NO_ERR, NO_ERR);
        *pTermId = GetIntKeyValue(&ptr, "TERMID",
NO_ERR, NO_ERR);
        *pSyncId = GetIntKeyValue(&ptr, "SYNCID",
NO_ERR, NO_ERR);

        // parse CMD
        GetKeyValue(&ptr, "CMD", szBuffer,
sizeof(szBuffer), ERR_COMMAND_UNDEFINED);

        // see which command it matches
        for(i=0; ; i++)
        {
                if (szCmds[i][0] == 0)
                        // no more; no match;
return error
                        throw new CWEBCLNT_ERR(
ERR_COMMAND_UNDEFINED );
                if ( !strcmp(szCmds[i], szBuffer)
)
                {
                        *pCmd = i+1;
                        break;
                }
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        }
}

/* FUNCTION: void WelcomeForm
 *
 */

void WelcomeForm(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer)
{
        char szTmp[1024];

        //welcome to tpc-c html form buffer, this
is first form client sees.
        strcpy( szBuffer,
        "<HTML><HEAD><TITLE>TPC-C Web
Client</TITLE></HEAD><BODY>"

        "<B><BIG>Microsoft TPC-C Web Client (ver
4.20)</BIG></B> <BR> <BR>"

        "<font face=\"Courier New\"><PRE>"

        "Compiled: "__DATE__", "__TIME__" <BR>"

        "Source:   "__FILE__" ("__TIMESTAMP__")
<BR>"

        "</PRE></font>"

        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"

        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\"
VALUE=\"0\">"

        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\"
VALUE=\"0\">"

        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\"
VALUE=\"1\">"

        "<INPUT TYPE=\"hidden\" NAME=\"TERMID\"
VALUE=\"0\">"

        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\"
VALUE=\"0\">"

        "<INPUT TYPE=\"hidden\" NAME=\"VERSION\"
VALUE=\"" WEBCLIENT_VERSION "\">"
                        );

        sprintf( szTmp,     "Configuration
Settings: <BR><font face=\"Courier New\"
color=\"blue\"><PRE>"

        "Txn Monitor            = <B>%s</B><BR>"

        "Database protocol      = <B>%s</B><BR>"

        "Max Connections        = <B>%d</B><BR>"
                                                "#
of Delivery Threads  = <B>%d</B><BR>"

        "Max Pending Deliveries = <B>%d</B><BR>"
                                ,
szTxnMonNames[Reg.eTxnMon],
szDBNames[Reg.eDB_Protocol],
                                Reg.dwMaxConnections,
dwNumDeliveryThreads, dwDelBuffSize );
        strcat( szBuffer, szTmp);

        if (Reg.eTxnMon == COM)
        {
                sprintf( szTmp,     "COM Single
Pool        = <B>%s</B><BR>",
                                Reg.bCOM_SinglePool ?
"YES" : "NO" );
                strcat( szBuffer, szTmp);
        }
        strcat( szBuffer, "</PRE></font>");

        if (Reg.eTxnMon == None)
                // connection options may be
specified when not using a txn monitor
                sprintf( szTmp,     "Please enter
your database options for this connection:<BR>"

        "<font face=\"Courier New\"
color=\"blue\"><PRE>"

        "DB Server    = <INPUT NAME=\"db_server\"
SIZE=20 VALUE=\"%s\"><BR>"

        "DB User ID   = <INPUT NAME=\"db_user\"
SIZE=20 VALUE=\"%s\"><BR>"

        "DB Password  = <INPUT NAME=\"db_passwd\"
SIZE=20 VALUE=\"%s\"><BR>"

        "DB Name      = <INPUT NAME=\"db_name\"
SIZE=20 VALUE=\"%s\"><BR>"

        "</PRE></font>"
                                        ,
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword,
Reg.szDbName );
        else
                // if using a txn monitor,
connection options are determined from registry;
can't
                // set per user.  show options
fyi
                sprintf( szTmp,     "Database
options which will be used by the transaction
monitor:<BR>"

        "<font face=\"Courier New\"
color=\"blue\"><PRE>"

        "DB Server              = <B>%s</B><BR>"

        "DB User ID             = <B>%s</B><BR>"

        "DB Password            = <B>%s</B><BR>"

        "DB Name                = <B>%s</B><BR>"

        "</PRE></font>"
                                ,
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword,
Reg.szDbName );
        strcat( szBuffer, szTmp);

        sprintf( szTmp,     "Please enter your
Warehouse and District for this session:<BR>"

        "<font face=\"Courier New\"
color=\"blue\"><PRE>" );
        strcat( szBuffer, szTmp);
        strcat( szBuffer,   "Warehouse ID = <INPUT
NAME=\"w_id\" SIZE=6><BR>"

        "District ID  = <INPUT NAME=\"d_id\"
SIZE=2><BR>"

        "</PRE></font><HR>"

        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"Submit\">"

        "</FORM></BODY></HTML>");
}

/* FUNCTION: SubmitCmd
 *
 * PURPOSE:         This function allocated a new
terminal id in the Term structure array.
 *
 */

void SubmitCmd(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer)
{
        int                 iNewTerm;
        char      *ptr = pECB->lpszQueryString;

        char      szVersion[32]       = { 0 };
        char      szServer[32]        = { 0 };
        char      szUser[32]                      =
"sa";
        char      szPassword[32]      = { 0 };
        char      szDatabase[32]      = "tpcc";

        // validate version field; the version
field ensures that the RTE is synchronized with the
web client
        GetKeyValue(&ptr, "VERSION", szVersion,
sizeof(szVersion), ERR_VERSION_MISMATCH);
        if ( strcmp( szVersion, WEBCLIENT_VERSION )
)
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    throw new CWEBCLNT_ERR(
ERR_VERSION_MISMATCH );

          if (Reg.eTxnMon == None)
          {
                    // parse Server name
                    GetKeyValue(&ptr, "db_server",
szServer, sizeof(szServer), ERR_NO_SERVER_SPECIFIED);
                    // parse User name
                    GetKeyValue(&ptr, "db_user",
szUser, sizeof(szUser), NO_ERR);
                    // parse Password
                    GetKeyValue(&ptr, "db_passwd",
szPassword, sizeof(szPassword), NO_ERR);
                    // parse Database name
                    GetKeyValue(&ptr, "db_name",
szDatabase, sizeof(szDatabase), NO_ERR);
          }

          // parse warehouse ID
          int w_id = GetIntKeyValue(&ptr, "w_id",
ERR_HTML_ILL_FORMED, ERR_W_ID_INVALID);
          if ( w_id < 1 )
                    throw new CWEBCLNT_ERR(
ERR_W_ID_INVALID );

          // parse district ID
          int d_id = GetIntKeyValue(&ptr, "d_id",
ERR_HTML_ILL_FORMED, ERR_D_ID_INVALID);
          if ( d_id < 1 || d_id > 10 )
                    throw new CWEBCLNT_ERR(
ERR_D_ID_INVALID );


          iNewTerm = TermAdd();

          Term.pClientData[iNewTerm].w_id = w_id;
          Term.pClientData[iNewTerm].d_id = d_id;

          try
          {
                    if (Reg.eTxnMon == TUXEDO)

          Term.pClientData[iNewTerm].pTxn =
pCTPCC_TUXEDO_new();
                    else if (Reg.eTxnMon == ENCINA)

          Term.pClientData[iNewTerm].pTxn =
pCTPCC_ENCINA_new();
                    else if (Reg.eTxnMon == COM)

          Term.pClientData[iNewTerm].pTxn =
pCTPCC_COM_new( Reg.bCOM_SinglePool );
                    else if (Reg.eDB_Protocol ==
ODBC)

          Term.pClientData[iNewTerm].pTxn =
pCTPCC_ODBC_new(    szServer, szUser, szPassword,
szMyComputerName,
          szDatabase, Reg.szSPPrefix,


          Reg.bCallNoDuplicatesNewOrder );
                    else if (Reg.eDB_Protocol ==
DBLIB)

          Term.pClientData[iNewTerm].pTxn =
pCTPCC_DBLIB_new( szServer, szUser, szPassword,
szMyComputerName, szDatabase );
          }
          catch (...)
          {
                    TermDelete(iNewTerm);
                    throw;              // pass
exception upward
          }

          MakeMainMenuForm(iNewTerm,
Term.pClientData[iNewTerm].iSyncId, szBuffer);
}

/* FUNCTION: StatsCmd
 *
 * PURPOSE:         This function returns to the
browser the total number of active terminal ids.
 *                              This routine is for
development/debugging purposes.
 *
 */

void StatsCmd(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer)
{
          int i;
          int       iTotal;

          EnterCriticalSection(&TermCriticalSection);

          iTotal = 0;
          for(i=0; i<Term.iNumEntries; i++)
          {
                    if (Term.pClientData[i].iNextFree
== -1)
                              iTotal++;
          }

          LeaveCriticalSection(&TermCriticalSection);

          wsprintf( szBuffer,

          "<HTML><HEAD><TITLE>TPC-C Web Client
Stats</TITLE></HEAD>"
                              "<BODY><B><BIG> Total
Active Connections: %d </BIG></B><BR></BODY></HTML>"
                              , iTotal );
}

char *CWEBCLNT_ERR::ErrorText()
{
          static SERRORMSG errorMsgs[] =
          {
                    {         ERR_COMMAND_UNDEFINED,

          "Command undefined."

                                                       },
                    {         ERR_D_ID_INVALID,

          "Invalid District ID Must be 1 to 10."

                    },
                    {
          ERR_DELIVERY_CARRIER_ID_RANGE,
                    "Delivery Carrier ID out of range
must be 1 - 10."
          },
                    {
          ERR_DELIVERY_CARRIER_INVALID,
          "Delivery Carrier ID invalid must be
numeric 1 - 10."                                    },
                    {
          ERR_DELIVERY_MISSING_OCD_KEY,
          "Delivery missing Carrier ID key \"OCD*\"."

                    },
                    {
          ERR_DELIVERY_THREAD_FAILED,
                    "Could not start delivery worker
thread."
                    },
                    {         ERR_GETPROCADDR_FAILED,

          "Could not map proc in DLL.  GetProcAddr
error.  DLL="                                       },
                    {         ERR_HTML_ILL_FORMED,

          "Required key field is missing from HTML
string."                                            },
                    {
          ERR_INVALID_SYNC_CONNECTION,
          "Invalid Terminal Sync ID."

                                                       },
                    {         ERR_INVALID_TERMID,

          "Invalid Terminal ID."

                                                       },
                    {         ERR_LOADDLL_FAILED,

          "Load of DLL failed.  DLL="

                                                  },
                    {
          ERR_MAX_CONNECTIONS_EXCEEDED,
          "No connections available.  Max Connections
is probably too low."   },
                    {
          ERR_MISSING_REGISTRY_ENTRIES,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        "Required registry entries are missing.
Rerun INSTALL to correct."    },
                {
          ERR_NEWORDER_CUSTOMER_INVALID,
                "New Order customer id invalid
data type, range = 1 to 3000."                    },
                {
          ERR_NEWORDER_CUSTOMER_KEY,
                "New Order missing Customer key
\"CID*\"."
                          },
                {
          ERR_NEWORDER_DISTRICT_INVALID,
                "New Order District ID Invalid
range 1 - 10."
                },
                {
          ERR_NEWORDER_FORM_MISSING_DID,
                "New Order missing District key
\"DID*\"."
                          },
                {
          ERR_NEWORDER_ITEMID_INVALID,
          "New Order Item Id is wrong data type, must
be numeric."                              },
                {
          ERR_NEWORDER_ITEMID_RANGE,
                "New Order Item Id is out of
range. Range = 1 to 999999."                      },
                {
          ERR_NEWORDER_ITEMID_WITHOUT_SUPPW,
          "New Order Item_Id field entered without a
corresponding Supp_W."        },
                {
          ERR_NEWORDER_MISSING_IID_KEY,
          "New Order missing Item Id key \"IID*\"."

                },
                {
          ERR_NEWORDER_MISSING_QTY_KEY,
          "New Order Missing Qty key \"Qty##*\"."

                },
                {
          ERR_NEWORDER_MISSING_SUPPW_KEY,
                "New Order missing Supp_W key
\"SP##*\"."
                          },
                {
          ERR_NEWORDER_NOITEMS_ENTERED,
          "New Order No order lines entered."

                          },
                {
          ERR_NEWORDER_QTY_INVALID,
                "New Order Qty invalid must be
numeric range 1 - 99."
          },
                {         ERR_NEWORDER_QTY_RANGE,
          "New Order Qty is out of range. Range = 1
to 99."                                           },
                {
          ERR_NEWORDER_QTY_WITHOUT_SUPPW,
                "New Order Qty field entered
without a corresponding Supp_W."                  },
                {
          ERR_NEWORDER_SUPPW_INVALID,
                "New Order Supp_W invalid data
type must be numeric."
          },        {
          ERR_NO_SERVER_SPECIFIED,
                "No Server name specified."

                                                  },
                {
          ERR_ORDERSTATUS_CID_AND_CLT,
          "Order Status Only Customer ID or Last Name
may be entered, not both."    },
                {
          ERR_ORDERSTATUS_CID_INVALID,
          "Order Status Customer ID invalid, range
must be numeric 1 - 3000."    },
                {
          ERR_ORDERSTATUS_CLT_RANGE,
                "Order Status Customer last name
longer than 16 characters."             },
                {
          ERR_ORDERSTATUS_DID_INVALID,
          "Order Status District invalid, value must
be numeric 1 - 10."           },
                {
          ERR_ORDERSTATUS_MISSING_CID_CLT,
          "Order Status Either Customer ID or Last
Name must be entered."                    },
                {
          ERR_ORDERSTATUS_MISSING_CID_KEY,
          "Order Status missing Customer key
\"CID*\"."
                          },
                {
          ERR_ORDERSTATUS_MISSING_CLT_KEY,
          "Order Status missing Customer Last Name
key \"CLT*\"."                                    },
                {
          ERR_ORDERSTATUS_MISSING_DID_KEY,
          "Order Status missing District key
\"DID*\"."
                          },
                {
          ERR_PAYMENT_CDI_INVALID,
                "Payment Customer district
invalid must be numeric."
          },
                {
          ERR_PAYMENT_CID_AND_CLT,
                "Payment Only Customer ID or Last
Name may be entered, not both."         },
                {
          ERR_PAYMENT_CUSTOMER_INVALID,
          "Payment Customer data type invalid, must
be numeric."                                      },
                {
          ERR_PAYMENT_CWI_INVALID,
                "Payment Customer Warehouse
invalid, must be numeric."
          },
                {
          ERR_PAYMENT_DISTRICT_INVALID,
          "Payment District ID is invalid, must be 1
- 10."                                            },
                {
          ERR_PAYMENT_HAM_INVALID,
                "Payment Amount invalid data type
must be numeric."
          },
                {         ERR_PAYMENT_HAM_RANGE,

          "Payment Amount out of range, 0 - 9999.99."

                },
                {
          ERR_PAYMENT_LAST_NAME_TO_LONG,
                "Payment Customer last name
longer than 16 characters."
          },
                {
          ERR_PAYMENT_MISSING_CDI_KEY,
          "Payment missing Customer district key
\"CDI*\"."
          },
                {
          ERR_PAYMENT_MISSING_CID_CLT,
          "Payment Either Customer ID or Last Name
must be entered."                         },
                {
          ERR_PAYMENT_MISSING_CID_KEY,
          "Payment missing Customer Key \"CID*\"."

                },
                {
          ERR_PAYMENT_MISSING_CLT_KEY,
          "Payment missing Customer Last Name key
\"CLT*\"."
          },        {
          ERR_PAYMENT_MISSING_CWI_KEY,
          "Payment missing Customer Warehouse key
\"CWI*\"."
          },
                {
          ERR_PAYMENT_MISSING_DID_KEY,
          "Payment missing District Key \"DID*\"."

                },
                {
          ERR_PAYMENT_MISSING_HAM_KEY,
          "Payment missing Amount key \"HAM*\"."

                },
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                {
        ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
        "Stock Level; missing Threshold key
\"TT*\"."
        },
                {
        ERR_STOCKLEVEL_THRESHOLD_INVALID,
        "Stock Level; Threshold value must be in
the range = 1 - 99."                    },
                {
        ERR_STOCKLEVEL_THRESHOLD_RANGE,
                "Stock Level Threshold out of
range, range must be 1 - 99."                   },
                {       ERR_VERSION_MISMATCH,

        "Invalid version field.  RTE and Web Client
are probably out of sync." },
                {       ERR_W_ID_INVALID,

        "Invalid Warehouse ID."

                                                },
                {       0,

                        ""




                                                }
        };

        char szTmp[256];
        int i = 0;
        while (TRUE)
        {
                if (errorMsgs[i].szMsg[0] == 0)
                {
                        strcpy( szTmp, "Unknown
error number." );
                        break;
                }
                if (m_Error ==
errorMsgs[i].iError)
                {
                        strcpy( szTmp,
errorMsgs[i].szMsg );
                        break;
                }
                i++;
        }

        if (m_szTextDetail)
                strcat( szTmp, m_szTextDetail );
        if (m_SystemErr)
                wsprintf( szTmp+strlen(szTmp), "
Error=%d", m_SystemErr );

        m_szErrorText = new char[strlen(szTmp)+1];
        strcpy( m_szErrorText, szTmp );
        return m_szErrorText;

}
```

```
/* FUNCTION: GetKeyValue
 *
 * PURPOSE:         This function parses a http
formatted string for specific key values.
 *
 * ARGUMENTS:       char
        *pQueryString       http string from client
browser
 *                                       char
                *pKey                           key
value to look for
 *                                       char
                *pValue
        character array into which to place key's
value
 *                                       int
                        iMax
        maximum length of key value array.
 *                                       WEBERROR
        err
        error value to throw
 *
 * RETURNS:                   nothing.
 *
 * ERROR:           if (the pKey value is not found)
then
 *                                                      if
(err == 0)
 *
        return (empty string)
 *
        else
 *
        throw CWEBCLNT_ERR(err)
 *
 * COMMENTS:        http keys are formatted either
KEY=value& or KEY=value\0. This DLL formats
 *                                       TPC-C input
fields in such a manner that the keys can be
extracted in the
 *                                       above manner.
 */

void GetKeyValue(char **pQueryString, char *pKey,
char *pValue, int iMax, WEBERROR err)
{
        char *ptr;

        if ( !(ptr=strstr(*pQueryString, pKey)) )
                goto ErrorExit;
        ptr += strlen(pKey);
        if ( *ptr != '=' )
                goto ErrorExit;
        ptr++;

        iMax--;  // one position is for terminating
null
        while( *ptr && *ptr != '&' && iMax)
        {
                *pValue++ = *ptr++;
                iMax--;
        }
        *pValue = 0;  // terminating null

        *pQueryString = ptr;
        return;

ErrorExit:
        if (err != NO_ERR)
                throw new CWEBCLNT_ERR( err );
        *pValue = 0;  // return empty result string
}

/* FUNCTION: GetIntKeyValue
 *
 * PURPOSE:         This function parses a http
formatted string for a specific key value.
 *
 * ARGUMENTS:       char
        *pQueryString       http string from client
browser
 *                                       char
                *pKey                           key
value to look for
 *                                       WEBERROR
        NoKeyErr            error value to throw if
key not found
 *                                       WEBERROR
        NotIntErr           error value to throw if
value not numeric
 *
 * RETURNS:                   integer
 *
 * ERROR:           if (the pKey value is not found)
then
 *                                                      if
(NoKeyErr != NO_ERR)
 *
        throw CWEBCLNT_ERR(err)
 *
        else
 *
        return 0
 *                                       else if (non-
numeric char found) then
 *                                                      if
(NotIntErr != NO_ERR) then
 *
        throw CWEBCLNT_ERR(err)
 *
        else
 *
        return 0
 *
 * COMMENTS:        http keys are formatted either
KEY=value& or KEY=value\0. This DLL formats
 *                                       TPC-C input
fields in such a manner that the keys can be
extracted in the
 *                                       above manner.
 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
int GetIntKeyValue(char **pQueryString, char *pKey,
WEBERROR NoKeyErr, WEBERROR NotIntErr)
{
          char *ptr0;
          char *ptr;

          if ( !(ptr=strstr(*pQueryString, pKey)) )
                    goto ErrorNoKey;
          ptr += strlen(pKey);
          if ( *ptr != '=' )
                    goto ErrorNoKey;
          ptr++;

          ptr0 = ptr;                    // remember
starting point
          // scan string until a terminator (null or
&) or a non-digit
          while( *ptr && *ptr != '&' && isdigit(*ptr)
)
                    ptr++;

          // make sure we stopped scanning for the
right reason
          if ((ptr0 == ptr) || (*ptr && *ptr != '&'))
          {
                    if (NotIntErr != NO_ERR)
                              throw new CWEBCLNT_ERR(
NoKeyErr );
                    return 0;
          }

          *pQueryString = ptr;
          return atoi(ptr0);

ErrorNoKey:
          if (NoKeyErr != NO_ERR)
                    throw new CWEBCLNT_ERR( NoKeyErr
);
          return 0;
}

/* FUNCTION: TermInit
 *
 * PURPOSE:         This function initializes the
client terminal structure; it is called when the
TPCC.DLL
 *                           is first loaded by the
inet service.
 *
 */

void TermInit(void)
{
          EnterCriticalSection(&TermCriticalSection);

          Term.iMasterSyncId  = 1;
          Term.iNumEntries    =
Reg.dwMaxConnections+1;

          Term.pClientData    = NULL;
          Term.pClientData    =
(PCLIENTDATA)malloc(Term.iNumEntries *
sizeof(CLIENTDATA));
          if (Term.pClientData == NULL)
          {

          LeaveCriticalSection(&TermCriticalSection);
                    throw new CWEBCLNT_ERR(
ERR_MEM_ALLOC_FAILED );
          }

          ZeroMemory( Term.pClientData,
Term.iNumEntries * sizeof(CLIENTDATA) );

          Term.iFreeList                =
Term.iNumEntries-1;
          // build free list
          // note: Term.pClientData[0].iNextFree gets
set to -1, which marks it as "in use".
          //       This is intentional, as the zero
entry is used as an anchor and never
          //                   allocated as an actual
terminal.
          for(int i=0; i<Term.iNumEntries; i++)
                    Term.pClientData[i].iNextFree =
i-1;

          LeaveCriticalSection(&TermCriticalSection);
}

/* FUNCTION: TermDeleteAll
 *
 * PURPOSE:         This function frees allocated
resources associated with the terminal structure.
 *
 * ARGUMENTS:       none
 *
 * RETURNS:                  None
 *
 * COMMENTS:        This function is called only when
the inet service unloads the TPCC.DLL
 *
 */

void TermDeleteAll(void)
{
          EnterCriticalSection(&TermCriticalSection);

          for(int i=1; i<Term.iNumEntries; i++)
          {
                    if (Term.pClientData[i].iNextFree
== -1)
                              delete
Term.pClientData[i].pTxn;
          }

          Term.iFreeList                = 0;
          Term.iNumEntries    = 0;
          if ( Term.pClientData )
                    free(Term.pClientData);
          Term.pClientData    = NULL;
          LeaveCriticalSection(&TermCriticalSection);
}

/* FUNCTION: TermAdd
 *
 * PURPOSE:         This function assigns a terminal
id which is used to identify a client browser.
 *
 * RETURNS:                  int
          assigned terminal id
 *
 */

int TermAdd(void)
{
          DWORD     i;
          int                iNewTerm, iTickCount;

          if (Term.iNumEntries == 0)
                    return -1;

          EnterCriticalSection(&TermCriticalSection);
          if (Term.iFreeList != 0)
          {         // position is available
                    iNewTerm = Term.iFreeList;
                    Term.iFreeList =
Term.pClientData[iNewTerm].iNextFree;

          Term.pClientData[iNewTerm].iNextFree = -1;
// indicates this position is in use
          }
          else
          {         // no open slots, so find the
slot that hasn't been used in the longest time and
reuse it
                    for(iNewTerm=1, i=1,
iTickCount=0x7FFFFFFF; i<Reg.dwMaxConnections; i++)
                    {
                              if (iTickCount >
Term.pClientData[i].iTickCount)
                              {
                                        iTickCount =
Term.pClientData[i].iTickCount;
                                        iNewTerm = i;
                              }
                    }
                    // if oldest term is less than
one minute old, it probably means that more
connections
                    // are being attempted than were
specified as "Max Connections" at install.  In this
case,
                    // do not bump existing
connection; instead, return error to requestor.
                    if ((GetTickCount() - iTickCount)
< 60000)
                    {

          LeaveCriticalSection(&TermCriticalSection);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                              throw new CWEBCLNT_ERR(
ERR_MAX_CONNECTIONS_EXCEEDED );
                    }
          }

          Term.pClientData[iNewTerm].iTickCount =
GetTickCount();
          Term.pClientData[iNewTerm].iSyncId =
Term.iMasterSyncId++;
          Term.pClientData[iNewTerm].pTxn = NULL;

          LeaveCriticalSection(&TermCriticalSection);
          return iNewTerm;
}

/* FUNCTION: TermDelete
 *
 * PURPOSE:          This function makes a terminal
entry in the Term array available for reuse.
 *
 * ARGUMENTS:        int
                              id
          Terminal id of client exiting
 *
 */

void TermDelete(int id)
{
          if ( id > 0 && id < Term.iNumEntries )
          {
                    delete Term.pClientData[id].pTxn;

                    // put onto free list

          EnterCriticalSection(&TermCriticalSection);

                    Term.pClientData[id].iNextFree =
Term.iFreeList;
                    Term.iFreeList = id;


          LeaveCriticalSection(&TermCriticalSection);
          }
}


/* FUNCTION: MakeErrorForm
 */

void ErrorForm(EXTENSION_CONTROL_BLOCK *pECB, int
iType, int iErrorNum, int iTermId, int iSyncId, char
*szErrorText, char *szBuffer )
{
          wsprintf(szBuffer,
                    "<HTML><HEAD><TITLE>TPC-C
Error</TITLE></HEAD><BODY>"
                    "<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"TERMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
                    "<BOLD>An Error
Occurred</BOLD><BR><BR>"
                    "%s"
                    "<BR><BR><HR>"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..NewOrder..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Payment..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Delivery..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Order-Status..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Exit..\">"
                    "</FORM></BODY></HTML>"
                    , iType, iErrorNum,
MAIN_MENU_FORM, iTermId, iSyncId, szErrorText );
}

/* FUNCTION: MakeMainMenuForm
 */

void MakeMainMenuForm(int iTermId, int iSyncId, char
*szForm)
{
          wsprintf(szForm,
                    "<HTML><HEAD><TITLE>TPC-C Main
Menu</TITLE></HEAD><BODY>"
                    "Select Desired
Transaction.<BR><HR>"
                    "<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"0\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"TERMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..NewOrder..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Payment..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Delivery..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Order-Status..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
                    "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Exit..\">"
                    "</FORM></BODY></HTML>"
                    , MAIN_MENU_FORM, iTermId,
iSyncId);
}

/* FUNCTION: MakeStockLevelForm
 *
 * PURPOSE:          This function constructs the
Stock Level HTML page.
 *
 * COMMENTS:         The internal client buffer is
created when the terminal id is assigned and should
not
 *                                        be freed
except when the client terminal id is no longer
needed.
 */

void MakeStockLevelForm(int iTermId, STOCK_LEVEL_DATA
*pStockLevelData, BOOL bInput, char *szForm)
{
          int       c;

          c = wsprintf(szForm,
                    "<HTML><HEAD><TITLE>TPC-C Stock
Level</TITLE></HEAD><FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"0\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"TERMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
                    "<PRE><font face=\"Courier\">
Stock-Level<BR>"
                    "Warehouse: %6.6d   District:
%2.2d<BR> <BR>",
                    STOCK_LEVEL_FORM, iTermId,
Term.pClientData[iTermId].iSyncId,
                    Term.pClientData[iTermId].w_id,
Term.pClientData[iTermId].d_id);

          if ( bInput )
          {
                    strcpy(szForm+c,
                              "Stock Level Threshold:
<INPUT NAME=\"TT*\" SIZE=2><BR> <BR>"
                              "low stock:
</font><BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR>"
                              " <BR> <BR> <BR> <BR>
<BR> <BR> <BR></PRE><HR>"
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Process\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Menu\">"
                              "</FORM></HTML>" );
          }
          else
          {
                    wsprintf(szForm+c,
                              "Stock Level Threshold:
%2.2d<BR> <BR>"
                              "low stock:
%3.3d</font> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR>"
                              " <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR></PRE><HR>"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..NewOrder..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Payment..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Delivery..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Order-Status..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Exit..\">"
                              "</FORM></HTML>"
                              , pStockLevelData-
>threshold, pStockLevelData->low_stock);
          }
}

/* FUNCTION: MakeNewOrderForm
 *
 * COMMENTS:        The internal client buffer is
created when the terminal id is assigned and should
not
 *                                        be freed
except when the client terminal id is no longer
needed.
 */

void MakeNewOrderForm(int iTermId, NEW_ORDER_DATA
*pNewOrderData, BOOL bInput, char *szForm)
{
          int                 i, c;
          BOOL      bValid;
          static    char szBR[] = " <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR> <BR>";

          if (!bInput)
                    assert( pNewOrderData-
>exec_status_code == eOK || pNewOrderData-
>exec_status_code == eInvalidItem );

          bValid = (bInput || (pNewOrderData-
>exec_status_code == eOK));

          c = wsprintf(szForm,
                              "<HTML><HEAD><TITLE>TPC-C New
Order</TITLE></HEAD><BODY>"
                              "<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
                              "<INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"%d\">"
                              "<INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
                              "<INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
                              "<INPUT TYPE=\"hidden\"
NAME=\"TERMID\" VALUE=\"%d\">"
                              "<INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
                              "<PRE><font face=\"Courier\">
New Order<BR>"
                              , bValid ? 0 : ERR_BAD_ITEM_ID,
NEW_ORDER_FORM, iTermId,
Term.pClientData[iTermId].iSyncId);

          if ( bInput )
          {
                    c += wsprintf(szForm+c,
"Warehouse: %6.6d   ", Term.pClientData[iTermId].w_id
);

                    strcpy( szForm+c,
                                        "District: <INPUT
NAME=\"DID*\" SIZE=1>
Date:<BR>"
                                        "Customer:  <INPUT
NAME=\"CID*\" SIZE=4>   Name:
Credit:      %Disc:<BR>"
                                        "Order Number:
Number of Lines:           W_tax:         D_tax:<BR>
<BR>"
                                        " Supp_W  Item_Id  Item
Name                Qty  Stock  B/G  Price
Amount<BR>"
                                        "  <INPUT
NAME=\"SP00*\" SIZE=4>  <INPUT NAME=\"IID00*\"
SIZE=6>                                 <INPUT
NAME=\"Qty00*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP01*\" SIZE=4>  <INPUT NAME=\"IID01*\"
SIZE=6>                                 <INPUT
NAME=\"Qty01*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP02*\" SIZE=4>  <INPUT NAME=\"IID02*\"
SIZE=6>                                 <INPUT
NAME=\"Qty02*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP03*\" SIZE=4>  <INPUT NAME=\"IID03*\"
SIZE=6>                                 <INPUT
NAME=\"Qty03*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP04*\" SIZE=4>  <INPUT NAME=\"IID04*\"
SIZE=6>                                 <INPUT
NAME=\"Qty04*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP05*\" SIZE=4>  <INPUT NAME=\"IID05*\"
SIZE=6>                                 <INPUT
NAME=\"Qty05*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP06*\" SIZE=4>  <INPUT NAME=\"IID06*\"
SIZE=6>                                 <INPUT
NAME=\"Qty06*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP07*\" SIZE=4>  <INPUT NAME=\"IID07*\"
SIZE=6>                                 <INPUT
NAME=\"Qty07*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP08*\" SIZE=4>  <INPUT NAME=\"IID08*\"
SIZE=6>                                 <INPUT
NAME=\"Qty08*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP09*\" SIZE=4>  <INPUT NAME=\"IID09*\"
SIZE=6>                                 <INPUT
NAME=\"Qty09*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP10*\" SIZE=4>  <INPUT NAME=\"IID10*\"
SIZE=6>                                 <INPUT
NAME=\"Qty10*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP11*\" SIZE=4>  <INPUT NAME=\"IID11*\"
SIZE=6>                                 <INPUT
NAME=\"Qty11*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP12*\" SIZE=4>  <INPUT NAME=\"IID12*\"
SIZE=6>                                 <INPUT
NAME=\"Qty12*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP13*\" SIZE=4>  <INPUT NAME=\"IID13*\"
SIZE=6>                                 <INPUT
NAME=\"Qty13*\" SIZE=1><BR>"
                                        "  <INPUT
NAME=\"SP14*\" SIZE=4>  <INPUT NAME=\"IID14*\"
SIZE=6>                                 <INPUT
NAME=\"Qty14*\" SIZE=1><BR>"
                                        "Execution Status:
Total:<BR>"
                                        "</font></PRE><HR>"
                                        "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Process\">"
                                        "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Menu\">"
                                        "</FORM></HTML>"
                                        );
          }
          else
          {
                    c += wsprintf(szForm+c,
"Warehouse: %6.6d   District: %2.2d
Date: ",
                                        pNewOrderData->w_id,
                                        pNewOrderData->d_id);

                    if ( bValid )
                    {
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                              c += wsprintf(szForm+c,
"%2.2d-%2.2d-%4.4d %2.2d:%2.2d:%2.2d",

          pNewOrderData->o_entry_d.day,

          pNewOrderData->o_entry_d.month,

          pNewOrderData->o_entry_d.year,

          pNewOrderData->o_entry_d.hour,

          pNewOrderData->o_entry_d.minute,

          pNewOrderData->o_entry_d.second);
                    }

                    c += wsprintf(szForm+c,
"<BR>Customer:  %4.4d   Name: %-16s   Credit: %-2s
",
                              pNewOrderData->c_id,
pNewOrderData->c_last, pNewOrderData->c_credit);

                    if ( bValid )
                    {
                              c += sprintf(szForm+c,

          "%%Disc: %5.2f            <BR>"

          "Order Number: %8.8d  Number of Lines:
%2.2d        W_tax: %5.2f   D_tax: %5.2f  <BR> <BR>"

          " Supp_W  Item_Id  Item Name
Qty  Stock  B/G  Price    Amount<BR>",

          100.0*pNewOrderData->c_discount,

          pNewOrderData->o_id,

          pNewOrderData->o_ol_cnt,
                                        100.0 *
pNewOrderData->w_tax,
                                        100.0 *
pNewOrderData->d_tax);

                              for(i=0;
i<pNewOrderData->o_ol_cnt; i++)
                              {
                                        c +=
sprintf(szForm+c, "%6.6d   %6.6d   %-24s  %2.2d
%3.3d    %1.1s   $%6.2f  $%7.2f  <BR>",

          pNewOrderData->OL[i].ol_supply_w_id,

          pNewOrderData->OL[i].ol_i_id,

          pNewOrderData->OL[i].ol_i_name,

          pNewOrderData->OL[i].ol_quantity,

          pNewOrderData->OL[i].ol_stock,

          pNewOrderData->OL[i].ol_brand_generic,

          pNewOrderData->OL[i].ol_i_price,

          pNewOrderData->OL[i].ol_amount );
                              }
                    }
                    else
                    {
                              c += wsprintf(szForm+c,
                                        "%Disc:<BR>"
                                        "Order
Number: %8.8d  Number of Lines:              W_tax:
D_tax:<BR> <BR>"
                                        " Supp_W
Item_Id  Item Name                 Qty  Stock  B/G
Price    Amount<BR>"
                                        ,
pNewOrderData->o_id);

                              i = 0;
                    }

                    strncpy( szForm+c, szBR, (15-i)*5
);
                    c += (15-i)*5;

                    if ( bValid )
                              c += sprintf(szForm+c,
"Execution Status: Transaction commited.
Total:  $%8.2f  ",

          pNewOrderData->total_amount);
                    else
                              c += wsprintf(szForm+c,
"Execution Status: Item number is not valid.
Total:");

                    strcpy(szForm+c,
                              "
<BR></font></PRE><HR>"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..NewOrder..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Payment..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Delivery..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Order-Status..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Exit..\">"
                              "</FORM></HTML>"
                              );
          }
}

/* FUNCTION: MakePaymentForm
 *
 * COMMENTS:        The internal client buffer is
created when the terminal id is assigned and should
not
 *                                  be freed
except when the client terminal id is no longer
needed.
 */

void MakePaymentForm(int iTermId, PAYMENT_DATA
*pPaymentData, BOOL bInput, char *szForm)
{
          int c;

          c = wsprintf(szForm,
                    "<HTML><HEAD><TITLE>TPC-C
Payment</TITLE></HEAD><BODY>"
                    "<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"0\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"TERMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
                    "<PRE><font face=\"Courier\">
Payment<BR>"
                    "Date: "
                    , PAYMENT_FORM, iTermId,
Term.pClientData[iTermId].iSyncId);

          if ( !bInput )
          {
                    c += wsprintf(szForm+c, "%2.2d-
%2.2d-%4.4d %2.2d:%2.2d:%2.2d",
                              pPaymentData-
>h_date.day,
                              pPaymentData-
>h_date.month,
                              pPaymentData-
>h_date.year,
                              pPaymentData-
>h_date.hour,
                              pPaymentData-
>h_date.minute,
                              pPaymentData-
>h_date.second);
          }

          if ( bInput )
          {
                    c += wsprintf(szForm+c,
                              "<BR> <BR>Warehouse:
%6.6d"
                              "
District: <INPUT NAME=\"DID*\" SIZE=1><BR> <BR> <BR>
<BR> <BR>"
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                              "Customer: <INPUT
NAME=\"CID*\" SIZE=4>"
                              "Cust-Warehouse: <INPUT
NAME=\"CWI*\" SIZE=4>  "
                              "Cust-District: <INPUT
NAME=\"CDI*\" SIZE=1><BR>"
                              "Name:
<INPUT NAME=\"CLT*\" SIZE=16>
Since:<BR>"
                              "
Credit:<BR>"
                              "
Disc:<BR>"
                              "
Phone:<BR> <BR>"
                              "Amount Paid:
$<INPUT NAME=\"HAM*\" SIZE=7>      New Cust-
Balance:<BR>"
                              "Credit Limit:<BR>
<BR>Cust-Data: <BR> <BR> <BR> <BR>
<BR></font></PRE><HR>"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Process\"><INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Menu\">"
                              "</BODY></FORM></HTML>"
                              ,
Term.pClientData[iTermId].w_id);
          }
          else
          {
                    c += wsprintf(szForm+c,
                              "<BR> <BR>Warehouse:
%6.6d                        District: %2.2d<BR>"
                              "%-20s
%-20s<BR>"
                              "%-20s
%-20s<BR>"
                              "%-20s %-2s %5.5s-%4.4s
%-20s %-2s %5.5s-%4.4s<BR> <BR>"
                              "Customer: %4.4d  Cust-
Warehouse: %6.6d  Cust-District: %2.2d<BR>"
                              "Name:   %-16s %-2s %-
16s     Since:  %2.2d-%2.2d-%4.4d<BR>"
                              "        %-20s
Credit: %-2s<BR>"

                              ,
Term.pClientData[iTermId].w_id, pPaymentData->d_id
                              , pPaymentData-
>w_street_1, pPaymentData->d_street_1
                              , pPaymentData-
>w_street_2, pPaymentData->d_street_2
                              , pPaymentData->w_city,
pPaymentData->w_state, pPaymentData->w_zip,
pPaymentData->w_zip+5
                              , pPaymentData->d_city,
pPaymentData->d_state, pPaymentData->d_zip,
pPaymentData->d_zip+5
                              , pPaymentData->c_id,
pPaymentData->c_w_id,         pPaymentData->c_d_id
                              , pPaymentData-
>c_first, pPaymentData->c_middle, pPaymentData-
>c_last
                              , pPaymentData-
>c_since.day, pPaymentData->c_since.month,
                    pPaymentData->c_since.year
                              , pPaymentData-
>c_street_1, pPaymentData->c_credit
                              );

          c += sprintf(szForm+c,
                              "        %-20s
%%Disc:  %5.2f<BR>",
                              pPaymentData-
>c_street_2, 100.0*pPaymentData->c_discount);

                    c += wsprintf(szForm+c,
                              "        %-20s %-2s
%5.5s-%4.4s       Phone:  %6.6s-%3.3s-%3.3s-%4.4s<BR>
<BR>",
                              pPaymentData->c_city,
pPaymentData->c_state, pPaymentData->c_zip,
pPaymentData->c_zip+5,
                              pPaymentData->c_phone,
pPaymentData->c_phone+6, pPaymentData->c_phone+9,
pPaymentData->c_phone+12 );

                    c += sprintf(szForm+c,
                              "Amount Paid:
$%7.2f      New Cust-Balance: $%14.2f<BR>"
                              "Credit Limit:
$%13.2f<BR> <BR>"
                              , pPaymentData-
>h_amount, pPaymentData->c_balance
                              , pPaymentData-
>c_credit_lim
                              );

                    if ( pPaymentData->c_credit[0] ==
'B' && pPaymentData->c_credit[1] == 'C' )
                              c += wsprintf(szForm+c,

                    "Cust-Data: %-50.50s<BR>           %-
50.50s<BR>           %-50.50s<BR>           %-
50.50s<BR>",

                    pPaymentData->c_data, pPaymentData-
>c_data+50, pPaymentData->c_data+100, pPaymentData-
>c_data+150 );
                    else
                              strcpy(szForm+c, "Cust-
Data: <BR> <BR> <BR> <BR>");

                    strcat(szForm,      "
<BR></font></PRE><HR>"

          "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..NewOrder..\">"

          "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Payment..\">"

          "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Delivery..\">"

          "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Order-Status..\">"

          "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Stock-Level..\">"

          "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Exit..\">"

          "</BODY></FORM></HTML>");
          }

}

/* FUNCTION: MakeOrderStatusForm
 *
 * COMMENTS:        The internal client buffer is
created when the terminal id is assigned and should
not
 *                                    be freed
except when the client terminal id is no longer
needed.
 */

void MakeOrderStatusForm(int iTermId,
ORDER_STATUS_DATA *pOrderStatusData, BOOL bInput,
char *szForm)
{
          int               i, c;
          static char szBR[] = " <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR>";

          c = wsprintf(szForm,
                    "<HTML><HEAD><TITLE>TPC-C Order-
Status</TITLE></HEAD><BODY>"
                    "<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"0\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"TERMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
                    "<PRE><font face=\"Courier\">
Order-Status<BR>"
                    "Warehouse: %6.6d   ",
                    ORDER_STATUS_FORM, iTermId,
Term.pClientData[iTermId].iSyncId,
Term.pClientData[iTermId].w_id);

          if ( bInput )
          {
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    strcpy(szForm+c,
                              "District: <INPUT
NAME=\"DID*\" SIZE=1><BR>"
                              "Customer: <INPUT
NAME=\"CID*\" SIZE=4>   Name:
<INPUT NAME=\"CLT*\" SIZE=23><BR>"
                              "Cust-Balance:<BR>
<BR>"
                              "Order-Number:
Entry-Date:                        Carrier-
Number:<BR>"
                              "Supply-W     Item-Id
Qty     Amount      Delivery-Date<BR> <BR> <BR> <BR>
<BR>"
                              " <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR> <BR> <BR></font></PRE>"
                              "<HR><INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Process\"><INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">"
                              "</BODY></FORM></HTML>"
);
          }
          else
          {
                    c += wsprintf(szForm+c,
                              "District: %2.2d<BR>"
                              "Customer: %4.4d
Name: %-16s %-2s %-16s<BR>",
                              pOrderStatusData->d_id,
pOrderStatusData->c_id,
                              pOrderStatusData-
>c_first, pOrderStatusData->c_middle,
pOrderStatusData->c_last);

                    c += sprintf(szForm+c, "Cust-
Balance: $%9.2f<BR> <BR>",
                              pOrderStatusData-
>c_balance);

                    c += wsprintf(szForm+c,
                              "Order-Number: %8.8d
Entry-Date: %2.2d-%2.2d-%4.4d %2.2d:%2.2d:%2.2d
Carrier-Number: %2.2d<BR>"
                              "Supply-W     Item-Id
Qty     Amount      Delivery-Date<BR>",
                              pOrderStatusData->o_id,
                              pOrderStatusData-
>o_entry_d.day,
                              pOrderStatusData-
>o_entry_d.month,
                              pOrderStatusData-
>o_entry_d.year,
                              pOrderStatusData-
>o_entry_d.hour,
                              pOrderStatusData-
>o_entry_d.minute,
                              pOrderStatusData-
>o_entry_d.second,
                              pOrderStatusData-
>o_carrier_id);

                    for(i=0; i< pOrderStatusData-
>o_ol_cnt; i++)
                    {
                              c += sprintf(szForm+c,
"  %6.6d     %6.6d     %2.2d     $%8.2f      %2.2d-
%2.2d-%4.4d<BR>",

          pOrderStatusData->OL[i].ol_supply_w_id,

          pOrderStatusData->OL[i].ol_i_id,

          pOrderStatusData->OL[i].ol_quantity,

          pOrderStatusData->OL[i].ol_amount,

          pOrderStatusData->OL[i].ol_delivery_d.day,

          pOrderStatusData-
>OL[i].ol_delivery_d.month,

          pOrderStatusData-
>OL[i].ol_delivery_d.year);
                    }

                    strncpy( szForm+c, szBR, (15-i)*5
);
                    c += (15-i)*5;

                    strcpy(szForm+c,

          "</font></PRE><HR><INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..NewOrder..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Payment..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Delivery..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Order-Status..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Exit..\">"
                              "</BODY></FORM></HTML>"
);
          }
}

/* FUNCTION: MakeDeliveryForm
 *
 * COMMENTS:        The internal client buffer is
created when the terminal id is assigned and should
not
 *                                        be freed
except when the client terminal id is no longer
needed.
 */

void MakeDeliveryForm(int iTermId, DELIVERY_DATA
*pDeliveryData, BOOL bInput, char *szForm)
{
          int       c;

          c = wsprintf(szForm,
                    "<HTML><HEAD><TITLE>TPC-C
Delivery</TITLE></HEAD><BODY>"
                    "<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"TERMID\" VALUE=\"%d\">"
                    "<INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
                    "<PRE><font face=\"Courier\">
Delivery<BR>"
                    "Warehouse: %6.6d<BR> <BR>",
                    (!bInput && (pDeliveryData-
>exec_status_code != eOK)) ? ERR_TYPE_DELIVERY_POST :
0,
                    DELIVERY_FORM, iTermId,
Term.pClientData[iTermId].iSyncId,
Term.pClientData[iTermId].w_id);

          if ( bInput )
          {
                    strcpy( szForm+c,
                              "Carrier Number: <INPUT
NAME=\"OCD*\" SIZE=1><BR> <BR>"
                              "Execution Status: <BR>
<BR> <BR> <BR> <BR> <BR> <BR> <BR>"
                              " <BR> <BR> <BR> <BR>
<BR> <BR> <BR> </font></PRE><HR>"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Process\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Menu\">"
                              "</BODY></FORM></HTML>"
);
          }
          else
          {
                    wsprintf( szForm+c,
                              "Carrier Number:
%2.2d<BR> <BR>"
                              "Execution Status: %s
<BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>"
                              " <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> </font></PRE>"
                              "<HR><INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"..NewOrder..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Payment..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Delivery..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Order-Status..\">"
                              "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Exit..\">"
                                "</BODY></FORM></HTML>"

                                , pDeliveryData-
>o_carrier_id,
                                (pDeliveryData-
>exec_status_code == eOK) ? "Delivery has been
queued." : "Delivery Post Failed     "
                                );
          }
}

/* FUNCTION: ProcessNewOrderForm
 *
 * PURPOSE:          This function gets and validates
the input data from the new order form
 *                                filling in the required
input variables. it then calls the SQLNewOrder
 *                                transaction, constructs
the output form and writes it back to client
 *                                browser.
 */

void ProcessNewOrderForm(EXTENSION_CONTROL_BLOCK
          *pECB, int iTermId, char *szBuffer)
{
          PNEW_ORDER_DATA               pNewOrder;

          pNewOrder = Term.pClientData[iTermId].pTxn-
>BuffAddr_NewOrder();

          ZeroMemory(pNewOrder,
sizeof(NEW_ORDER_DATA));
          pNewOrder->w_id =
Term.pClientData[iTermId].w_id;
          GetNewOrderData(pECB->lpszQueryString,
pNewOrder);

          Term.pClientData[iTermId].pTxn->NewOrder();

          pNewOrder = Term.pClientData[iTermId].pTxn-
>BuffAddr_NewOrder();
          MakeNewOrderForm(iTermId, pNewOrder,
OUTPUT_FORM, szBuffer );
}

/* FUNCTION: void ProcessPaymentForm
 *
 * PURPOSE:          This function gets and validates
the input data from the payment form
 *                                filling in the required
input variables. It then calls the SQLPayment
 *                                transaction, constructs
the output form and writes it back to client
 *                                browser.
 *
 * ARGUMENTS:        EXTENSION_CONTROL_BLOCK
          *pECB     passed in structure pointer from
inetsrv.
 *                                        int

          iTermId   client browser terminal id
 *
 */

void ProcessPaymentForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer)
{
          PPAYMENT_DATA       pPayment;

          pPayment = Term.pClientData[iTermId].pTxn-
>BuffAddr_Payment();
          ZeroMemory(pPayment, sizeof(PAYMENT_DATA));
          pPayment->w_id =
Term.pClientData[iTermId].w_id;
          GetPaymentData(pECB->lpszQueryString,
pPayment);

          Term.pClientData[iTermId].pTxn->Payment();

          pPayment = Term.pClientData[iTermId].pTxn-
>BuffAddr_Payment();
          MakePaymentForm(iTermId, pPayment,
OUTPUT_FORM, szBuffer);
}

/* FUNCTION: ProcessOrderStatusForm
 *
 * PURPOSE:          This function gets and validates
the input data from the Order Status
 *                                form filling in the
required input variables. It then calls the
 *                                SQLOrderStatus
transaction, constructs the output form and writes it
 *                                back to client browser.
 *
 * ARGUMENTS:        EXTENSION_CONTROL_BLOCK
          *pECB     passed in structure pointer from
inetsrv.
 *                                        int

          iTermId   client browser terminal id
 *
 */

void ProcessOrderStatusForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer)
{
          PORDER_STATUS_DATA  pOrderStatus;

          pOrderStatus =
Term.pClientData[iTermId].pTxn-
>BuffAddr_OrderStatus();
          ZeroMemory(pOrderStatus,
sizeof(ORDER_STATUS_DATA));
          pOrderStatus->w_id =
Term.pClientData[iTermId].w_id;
          GetOrderStatusData(pECB->lpszQueryString,
pOrderStatus);
          Term.pClientData[iTermId].pTxn-
>OrderStatus();

          pOrderStatus =
Term.pClientData[iTermId].pTxn-
>BuffAddr_OrderStatus();
          MakeOrderStatusForm(iTermId, pOrderStatus,
OUTPUT_FORM, szBuffer);
}

/* FUNCTION: ProcessDeliveryForm
 *
 * PURPOSE:          This function gets and validates
the input data from the delivery form
 *                                filling in the required
input variables. It then calls the PostDeliveryInfo
 *                                Api, The client is then
informed that the transaction has been posted.
 *
 * ARGUMENTS:        EXTENSION_CONTROL_BLOCK
          *pECB     passed in structure pointer from
inetsrv.
 *                                        int

          iTermId   client browser terminal id
 *
 */

void ProcessDeliveryForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer)
{
          char      *ptr = pECB->lpszQueryString;

          PDELIVERY_DATA      pDelivery;

          pDelivery = Term.pClientData[iTermId].pTxn-
>BuffAddr_Delivery();
          ZeroMemory(pDelivery,
sizeof(DELIVERY_DATA));
          pDelivery->w_id =
Term.pClientData[iTermId].w_id;

          pDelivery->o_carrier_id       =
GetIntKeyValue(&ptr, "OCD*",
ERR_DELIVERY_MISSING_OCD_KEY,
ERR_DELIVERY_CARRIER_INVALID);
          if ( pDelivery->o_carrier_id > 10 ||
pDelivery->o_carrier_id < 1 )
                    throw new CWEBCLNT_ERR(
ERR_DELIVERY_CARRIER_ID_RANGE );

          if (dwNumDeliveryThreads)
          {
                    //post delivery info
                    if ( PostDeliveryInfo(pDelivery-
>w_id, pDelivery->o_carrier_id) )
                              pDelivery-
>exec_status_code = eDeliveryFailed;
                    else
                              pDelivery-
>exec_status_code = eOK;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        }
        else // delivery is done synchronously if
no delivery threads configured
                Term.pClientData[iTermId].pTxn-
>Delivery();

        pDelivery = Term.pClientData[iTermId].pTxn-
>BuffAddr_Delivery();
        MakeDeliveryForm(iTermId, pDelivery,
OUTPUT_FORM, szBuffer);
}

/* FUNCTION: ProcessStockLevelForm
 *
 * PURPOSE:         This function gets and validates
the input data from the Stock Level
 *                          form filling in the
required input variables. It then calls the
 *                          SQLStockLevel
transaction, constructs the output form and writes it
 *                          back to client browser.
 *
 * ARGUMENTS:       EXTENSION_CONTROL_BLOCK
        *pECB     passed in structure pointer from
inetsrv.
 *                                      int

        iTermId   client browser terminal id
 *
 */

void ProcessStockLevelForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer)
{
        char                *ptr = pECB-
>lpszQueryString;

        PSTOCK_LEVEL_DATA   pStockLevel;

        pStockLevel =
Term.pClientData[iTermId].pTxn-
>BuffAddr_StockLevel();
        ZeroMemory( pStockLevel,
sizeof(STOCK_LEVEL_DATA) );

        pStockLevel->w_id =
Term.pClientData[iTermId].w_id;
        pStockLevel->d_id =
Term.pClientData[iTermId].d_id;

        pStockLevel->threshold =
GetIntKeyValue(&ptr, "TT*",
ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
ERR_STOCKLEVEL_THRESHOLD_INVALID);
        if ( pStockLevel->threshold >= 100 ||
pStockLevel->threshold < 0 )
                throw new CWEBCLNT_ERR(
ERR_STOCKLEVEL_THRESHOLD_RANGE );

        Term.pClientData[iTermId].pTxn-
>StockLevel();
        pStockLevel =
Term.pClientData[iTermId].pTxn-
>BuffAddr_StockLevel();
        MakeStockLevelForm(iTermId, pStockLevel,
OUTPUT_FORM, szBuffer);
}

/* FUNCTION: GetNewOrderData
 *
 * PURPOSE:         This function extracts and
validates the new order form data from an http
command string.
 *
 * ARGUMENTS:       LPSTR
        lpszQueryString               client
browser http command string
 *
        NEW_ORDER_DATA      *pNewOrderData
        pointer to new order data structure
 *
 */

void GetNewOrderData(LPSTR lpszQueryString,
NEW_ORDER_DATA *pNewOrderData)
{
        char      szTmp[26];
        int                 i;
        short     items;
        int                 ol_i_id, ol_quantity;
        char      *ptr = lpszQueryString;

        static char szSP[MAX_OL_NEW_ORDER_ITEMS][6]
=
                { "SP00*", "SP01*", "SP02*",
"SP03*", "SP04*",
                  "SP05*", "SP06*", "SP07*",
"SP08*", "SP09*",
                  "SP10*", "SP11*", "SP12*",
"SP13*", "SP14*" };
        static char
szIID[MAX_OL_NEW_ORDER_ITEMS][7] =
                { "IID00*", "IID01*", "IID02*",
"IID03*", "IID04*",
                  "IID05*", "IID06*", "IID07*",
"IID08*", "IID09*",
                  "IID10*", "IID11*", "IID12*",
"IID13*", "IID14*" };
        static char
szQty[MAX_OL_NEW_ORDER_ITEMS][7] =
                { "Qty00*", "Qty01*", "Qty02*",
"Qty03*", "Qty04*",
                  "Qty05*", "Qty06*", "Qty07*",
"Qty08*", "Qty09*",
                  "Qty10*", "Qty11*", "Qty12*",
"Qty13*", "Qty14*" };

        pNewOrderData->d_id = GetIntKeyValue(&ptr,
"DID*", ERR_NEWORDER_FORM_MISSING_DID,
ERR_NEWORDER_DISTRICT_INVALID);
        pNewOrderData->c_id = GetIntKeyValue(&ptr,
"CID*", ERR_NEWORDER_CUSTOMER_KEY,
ERR_NEWORDER_CUSTOMER_INVALID);

        for(i=0, items=0; i<MAX_OL_NEW_ORDER_ITEMS;
i++)
        {
                GetKeyValue(&ptr, szSP[i], szTmp,
sizeof(szTmp), ERR_NEWORDER_MISSING_SUPPW_KEY);
                if ( szTmp[0] )
                {
                        if ( !IsNumeric(szTmp)
)
                                throw new
CWEBCLNT_ERR( ERR_NEWORDER_SUPPW_INVALID );
                        pNewOrderData-
>OL[items].ol_supply_w_id = atoi(szTmp);

                        ol_i_id =
pNewOrderData->OL[items].ol_i_id =

                GetIntKeyValue(&ptr, szIID[i],
ERR_NEWORDER_MISSING_IID_KEY,
ERR_NEWORDER_ITEMID_INVALID);
                        if ( ol_i_id > 999999
|| ol_i_id < 1 )
                                throw new
CWEBCLNT_ERR( ERR_NEWORDER_ITEMID_RANGE );

                        ol_quantity =
pNewOrderData->OL[items].ol_quantity =

                GetIntKeyValue(&ptr, szQty[i],
ERR_NEWORDER_MISSING_QTY_KEY,
ERR_NEWORDER_QTY_INVALID);
                        if ( ol_quantity > 99
|| ol_quantity < 1 )
                                throw new
CWEBCLNT_ERR( ERR_NEWORDER_QTY_RANGE );

                        items++;
                }
                else
                {       // nothing entered for
supply warehouse, so item id and qty must also be
blank
                        GetKeyValue(&ptr,
szIID[i], szTmp, sizeof(szTmp),
ERR_NEWORDER_MISSING_IID_KEY);
                        if ( szTmp[0] )
                                throw new
CWEBCLNT_ERR( ERR_NEWORDER_ITEMID_WITHOUT_SUPPW );

                        GetKeyValue(&ptr,
szQty[i], szTmp, sizeof(szTmp),
ERR_NEWORDER_MISSING_QTY_KEY);
                        if ( szTmp[0] )
                                throw new
CWEBCLNT_ERR( ERR_NEWORDER_QTY_WITHOUT_SUPPW );
                }
        }
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        if ( items == 0 )
                throw new CWEBCLNT_ERR(
ERR_NEWORDER_NOITEMS_ENTERED );

        pNewOrderData->o_ol_cnt = items;
}

/* FUNCTION: GetPaymentData
 *
 * PURPOSE:         This function extracts and
validates the payment form data from an http command
string.
 *
 * ARGUMENTS:       LPSTR
        lpszQueryString               client
browser http command string
 *                                    PAYMENT_DATA
        *pPaymentData                 pointer to
payment data structure
 */

void GetPaymentData(LPSTR lpszQueryString,
PAYMENT_DATA *pPaymentData)
{
        char      szTmp[26];
        char      *ptr = lpszQueryString;
        BOOL      bCustIdBlank;
        int               iLen;

        pPaymentData->d_id = GetIntKeyValue(&ptr,
"DID*", ERR_PAYMENT_MISSING_DID_KEY,
ERR_PAYMENT_DISTRICT_INVALID);

        GetKeyValue(&ptr, "CID*", szTmp,
sizeof(szTmp), ERR_PAYMENT_MISSING_CID_KEY);
        if ( szTmp[0] == 0 )
        {
                bCustIdBlank = TRUE;
                pPaymentData->c_id = 0;
        }
        else
        {       // parse customer id and verify
that last name was NOT entered
                bCustIdBlank = FALSE;
                if ( !IsNumeric(szTmp) )
                        throw new CWEBCLNT_ERR(
ERR_PAYMENT_CUSTOMER_INVALID );
                pPaymentData->c_id = atoi(szTmp);
        }

        pPaymentData->c_w_id = GetIntKeyValue(&ptr,
"CWI*", ERR_PAYMENT_MISSING_CWI_KEY,
ERR_PAYMENT_CWI_INVALID);
        pPaymentData->c_d_id = GetIntKeyValue(&ptr,
"CDI*", ERR_PAYMENT_MISSING_CDI_KEY,
ERR_PAYMENT_CDI_INVALID);

        if ( bCustIdBlank )
        {       // customer id is blank, so last
name must be entered
                GetKeyValue(&ptr, "CLT*", szTmp,
sizeof(szTmp), ERR_PAYMENT_MISSING_CLT_KEY);
                if ( szTmp[0] == 0 )
                        throw new CWEBCLNT_ERR(
ERR_PAYMENT_MISSING_CID_CLT );

                _strupr( szTmp );
                if ( strlen(szTmp) >
LAST_NAME_LEN )
                        throw new CWEBCLNT_ERR(
ERR_PAYMENT_LAST_NAME_TO_LONG );

                strcpy(pPaymentData->c_last,
szTmp);
                // pad with spaces so that the
client layer doesn't have to do it
                // before passing parameters to
stored procedure
                iLen = strlen(pPaymentData-
>c_last);
                memset(pPaymentData->c_last +
iLen, ' ', LAST_NAME_LEN - iLen);
                pPaymentData-
>c_last[LAST_NAME_LEN] = 0;
        }
        else
        {       // parse customer id and verify
that last name was NOT entered
                GetKeyValue(&ptr, "CLT*", szTmp,
sizeof(szTmp), ERR_PAYMENT_MISSING_CLT_KEY);
                if ( szTmp[0] != 0 )
                        throw new CWEBCLNT_ERR(
ERR_PAYMENT_CID_AND_CLT );
        }

        GetKeyValue(&ptr, "HAM*", szTmp,
sizeof(szTmp), ERR_PAYMENT_MISSING_HAM_KEY);
        if (!IsDecimal(szTmp))
                throw new CWEBCLNT_ERR(
ERR_PAYMENT_HAM_INVALID );
        pPaymentData->h_amount = atof(szTmp);
        if ( pPaymentData->h_amount >= 10000.00 ||
pPaymentData->h_amount < 0 )
                throw new CWEBCLNT_ERR(
ERR_PAYMENT_HAM_RANGE );
}

/* FUNCTION: GetOrderStatusData
 *
 * PURPOSE:         This function extracts and
validates the payment form data from an http command
string.
 *
 */
void GetOrderStatusData(LPSTR lpszQueryString,
ORDER_STATUS_DATA *pOrderStatusData)
{
        char      szTmp[26];
        char      *ptr = lpszQueryString;
        int               iLen;

        pOrderStatusData->d_id =
GetIntKeyValue(&ptr, "DID*",
ERR_ORDERSTATUS_MISSING_DID_KEY,
ERR_ORDERSTATUS_DID_INVALID);

        GetKeyValue(&ptr, "CID*", szTmp,
sizeof(szTmp), ERR_ORDERSTATUS_MISSING_CID_KEY);
        if ( szTmp[0] == 0 )
        {       // customer id is blank, so last
name must be entered
                pOrderStatusData->c_id = 0;
                GetKeyValue(&ptr, "CLT*", szTmp,
sizeof(szTmp), ERR_ORDERSTATUS_MISSING_CLT_KEY);
                if ( szTmp[0] == 0 )
                        throw new CWEBCLNT_ERR(
ERR_ORDERSTATUS_MISSING_CID_CLT );

                _strupr( szTmp );
                if ( strlen(szTmp) >
LAST_NAME_LEN )
                        throw new CWEBCLNT_ERR(
ERR_ORDERSTATUS_CLT_RANGE );

                strcpy(pOrderStatusData->c_last,
szTmp);
                // pad with spaces so that the
client layer doesn't have to do it
                // before passing parameters to
stored procedure
                iLen = strlen(pOrderStatusData-
>c_last);
                memset(pOrderStatusData->c_last +
iLen, ' ', LAST_NAME_LEN - iLen);
                pOrderStatusData-
>c_last[LAST_NAME_LEN] = 0;
        }
        else
        {       // parse customer id and verify
that last name was NOT entered
                if ( !IsNumeric(szTmp) )
                        throw new CWEBCLNT_ERR(
ERR_ORDERSTATUS_CID_INVALID );
                pOrderStatusData->c_id =
atoi(szTmp);
                GetKeyValue(&ptr, "CLT*", szTmp,
sizeof(szTmp), ERR_ORDERSTATUS_MISSING_CLT_KEY);
                if ( szTmp[0] != 0 )
                        throw new CWEBCLNT_ERR(
ERR_ORDERSTATUS_CID_AND_CLT );
        }

}

/* FUNCTION: BOOL IsNumeric(char *ptr)
 *
 * PURPOSE:         This function determines if a
string is numeric. It fails if any characters other
 *                          than numeric and null
terminator are present.
 *
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
 * ARGUMENTS:       char
          *ptr      pointer to string to check.
 *
 * RETURNS:                  BOOL      FALSE     if
string is not all numeric
 *
          TRUE      if string contains only numeric
characters i.e. '0' - '9'
 */

BOOL IsNumeric(char *ptr)
{
          if ( *ptr == 0 )
                    return FALSE;

          while( *ptr && isdigit(*ptr) )
                    ptr++;
          return ( !*ptr );
}

/* FUNCTION: BOOL IsDecimal(char *ptr)
 *
 * PURPOSE:          This function determines if a
string is a non-negative decimal value.
 *          It fails if any characters other than a
series of numbers followed by
 *                              a decimal point,
another series of numbers, and a null terminator are
present.
 *
 * ARGUMENTS:       char
          *ptr      pointer to string to check.
 *
 * RETURNS:                  BOOL      FALSE     if
string is not a valid non-negative decimal value
 *
          TRUE      if string is OK
 */

BOOL IsDecimal(char *ptr)
{
          char *dotptr;
          BOOL  bValid;

          if ( *ptr == 0 )
                    return FALSE;

          // find decimal point
          dotptr = strchr( ptr, '.' );
          if (dotptr == NULL)
                    // no decimal point, so just
check for numeric
                    return IsNumeric(ptr);
          *dotptr = 0;  // temporarily replace
decimal with a terminator

          if ( *ptr != 0 )
                    bValid = IsNumeric(ptr);
          // string starts with decimal point
          else if (*(dotptr+1) == 0)
                    return FALSE;  // nothing but a
decimal point is bad
          else
                    bValid = TRUE;

          if (*(dotptr+1) != 0)
                    // check text after decimal point
                    bValid &= IsNumeric(dotptr+1);

          *dotptr = '.';  // replace decimal point
          return bValid;
}
```

tpcc.h

```
/*        FILE:             TPCC.H
 *                                        Microsoft
TPC-C Kit Ver. 4.20.000
 *                                        Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                                        Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Header file for ISAPI TPCC.DLL,
defines structures and functions used in the isapi
tpcc.dll.
 *
 */

//VERSION RESOURCE DEFINES
#define _APS_NEXT_RESOURCE_VALUE
                    101
#define _APS_NEXT_COMMAND_VALUE
                                  40001
#define _APS_NEXT_CONTROL_VALUE
                                  1000
#define _APS_NEXT_SYMED_VALUE
                    101

#define TP_MAX_RETRIES
                                        50


//note that the welcome form must be processed first
as terminal ids assigned here, once the
//terminal id is assigned then the forms can be
processed in any order.
#define WELCOME_FORM
                                  1
          //beginning form no term id assigned, form
id
#define MAIN_MENU_FORM
                                  2
          //term id assigned main menu form id
#define NEW_ORDER_FORM
                                  3
          //new order form id
#define PAYMENT_FORM
                                  4
          //payment form id
#define DELIVERY_FORM
                                  5
          //delivery form id
#define ORDER_STATUS_FORM
                    6                   //order
status id
#define STOCK_LEVEL_FORM
                    7                   //stock level
form id

//This macro is used to prevent the compiler error
unused formal parameter
#define UNUSEDPARAM(x) (x = x)


//This structure defines the data necessary to keep
distinct for each terminal or client connection.
typedef struct _CLIENTDATA
{
          int                             iNextFree;
                                          //index of
next free element or -1 if this entry in use.
          int                             w_id;
                                          //warehouse
id assigned at welcome form
          int                             d_id;
                                          //district id
assigned at welcome form

          int                             iSyncId;
                                  //syncronization id
          int                             iTickCount;
                                          //time of
last access;

          CTPCC_BASE          *pTxn;

} CLIENTDATA, *PCLIENTDATA;


//This structure is used to define the operational
interface for terminal id support
typedef struct _TERM
{
          int                             iNumEntries;

          //total allocated terminal array entries
          int                             iFreeList;

          //next available terminal array element or
-1 if none
          int
          iMasterSyncId;
                    //syncronization id
          CLIENTDATA          *pClientData;
                                          //pointer to
allocated client data
} TERM;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
typedef TERM *PTERM;
                                        //pointer to
terminal structure type


          enum WEBERROR
          {
                    NO_ERR,
                    ERR_COMMAND_UNDEFINED,
                    ERR_D_ID_INVALID,
                    ERR_DELIVERY_CARRIER_ID_RANGE,
                    ERR_DELIVERY_CARRIER_INVALID,
                    ERR_DELIVERY_MISSING_OCD_KEY,
                    ERR_DELIVERY_THREAD_FAILED,
                    ERR_GETPROCADDR_FAILED,
                    ERR_HTML_ILL_FORMED,
                    ERR_INVALID_SYNC_CONNECTION,
                    ERR_INVALID_TERMID,
                    ERR_LOADDLL_FAILED,
                    ERR_MAX_CONNECTIONS_EXCEEDED,
                    ERR_MEM_ALLOC_FAILED,
                    ERR_MISSING_REGISTRY_ENTRIES,
                    ERR_NEWORDER_CUSTOMER_INVALID,
                    ERR_NEWORDER_CUSTOMER_KEY,
                    ERR_NEWORDER_DISTRICT_INVALID,
                    ERR_NEWORDER_FORM_MISSING_DID,
                    ERR_NEWORDER_ITEMID_INVALID,
                    ERR_NEWORDER_ITEMID_RANGE,

          ERR_NEWORDER_ITEMID_WITHOUT_SUPPW,
                    ERR_NEWORDER_MISSING_IID_KEY,
                    ERR_NEWORDER_MISSING_QTY_KEY,
                    ERR_NEWORDER_MISSING_SUPPW_KEY,
                    ERR_NEWORDER_NOITEMS_ENTERED,
                    ERR_NEWORDER_QTY_INVALID,
                    ERR_NEWORDER_QTY_RANGE,
                    ERR_NEWORDER_QTY_WITHOUT_SUPPW,
                    ERR_NEWORDER_SUPPW_INVALID,
                    ERR_NO_SERVER_SPECIFIED,
                    ERR_ORDERSTATUS_CID_AND_CLT,
                    ERR_ORDERSTATUS_CID_INVALID,
                    ERR_ORDERSTATUS_CLT_RANGE,
                    ERR_ORDERSTATUS_DID_INVALID,
                    ERR_ORDERSTATUS_MISSING_CID_CLT,
                    ERR_ORDERSTATUS_MISSING_CID_KEY,
                    ERR_ORDERSTATUS_MISSING_CLT_KEY,
                    ERR_ORDERSTATUS_MISSING_DID_KEY,
                    ERR_PAYMENT_CDI_INVALID,
                    ERR_PAYMENT_CID_AND_CLT,
                    ERR_PAYMENT_CUSTOMER_INVALID,
                    ERR_PAYMENT_CWI_INVALID,
                    ERR_PAYMENT_DISTRICT_INVALID,
                    ERR_PAYMENT_HAM_INVALID,
                    ERR_PAYMENT_HAM_RANGE,
                    ERR_PAYMENT_LAST_NAME_TO_LONG,
                    ERR_PAYMENT_MISSING_CDI_KEY,
                    ERR_PAYMENT_MISSING_CID_CLT,
                    ERR_PAYMENT_MISSING_CID_KEY,
                    ERR_PAYMENT_MISSING_CLT,
                    ERR_PAYMENT_MISSING_CLT_KEY,
                    ERR_PAYMENT_MISSING_CWI_KEY,
                    ERR_PAYMENT_MISSING_DID_KEY,
                    ERR_PAYMENT_MISSING_HAM_KEY,

          ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
                    ERR_STOCKLEVEL_THRESHOLD_INVALID,
                    ERR_STOCKLEVEL_THRESHOLD_RANGE,
                    ERR_VERSION_MISMATCH,
                    ERR_W_ID_INVALID
          };

class CWEBCLNT_ERR : public CBaseErr
{
          public:

                    CWEBCLNT_ERR(WEBERROR Err)
                    {
                              m_Error = Err;
                              m_szTextDetail = NULL;
                              m_SystemErr = 0;
                              m_szErrorText = NULL;
                    };

                    CWEBCLNT_ERR(WEBERROR Err, char
*szTextDetail, DWORD dwSystemErr)
                    {
                              m_Error = Err;
                              m_szTextDetail = new
char[strlen(szTextDetail)+1];
                              strcpy( m_szTextDetail,
szTextDetail );
                              m_SystemErr =
dwSystemErr;
                              m_szErrorText = NULL;
                    };

                    ~CWEBCLNT_ERR()
                    {
                              if (m_szTextDetail !=
NULL)
                                        delete []
m_szTextDetail;
                              if (m_szErrorText !=
NULL)
                                        delete []
m_szErrorText;
                    };

                    WEBERROR  m_Error;
                    char
          *m_szTextDetail;    //
                    char
          *m_szErrorText;
                    DWORD               m_SystemErr;

                    int ErrorType() {return
ERR_TYPE_WEBDLL;};
                    char *ErrorTypeStr() { return
"WEBCLIENT"; }
                    int ErrorNum() {return m_Error;};
                    char *ErrorText();
};

//These constants have already been defined in
engstut.h, but since we do
//not want to include it in the delisrv executable
#define   TXN_EVENT_START               2
#define   TXN_EVENT_STOP                4
#define TXN_EVENT_WARNING     6
          //used to record a warning into the log

//function prototypes

BOOL APIENTRY DllMain(HANDLE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved);
void WriteMessageToEventLog(LPTSTR lpszMsg);
void ProcessQueryString(EXTENSION_CONTROL_BLOCK
*pECB, int *pCmd, int *pFormId, int *pTermId, int
*pSyncId);
void WelcomeForm(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer);
void SubmitCmd(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer);
void BeginCmd(EXTENSION_CONTROL_BLOCK *pECB, int
iFormId, int iTermId);
void ProcessCmd(EXTENSION_CONTROL_BLOCK *pECB, int
iFormId, int iTermId);
void StatsCmd(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer);
void ErrorMessage(EXTENSION_CONTROL_BLOCK *pECB, int
iError, int iErrorType, char *szMsg, int iTermId);
void GetKeyValue(char **pQueryString, char *pKey,
char *pValue, int iMax, WEBERROR err);
int  GetIntKeyValue(char **pQueryString, char *pKey,
WEBERROR NoKeyErr, WEBERROR NotIntErr);
void TermInit(void);
void TermDeleteAll(void);
int  TermAdd(void);
void TermDelete(int id);
void ErrorForm(EXTENSION_CONTROL_BLOCK *pECB, int
iType, int iErrorNum, int iTermId, int iSyncId, char
*szErrorText, char *szBuffer );
void MakeMainMenuForm(int iTermId, int iSyncId, char
*szForm);
void MakeStockLevelForm(int iTermId, STOCK_LEVEL_DATA
*pStockLevelData, BOOL bInput, char *szForm);
void MakeNewOrderForm(int iTermId, NEW_ORDER_DATA
*pNewOrderData, BOOL bInput, char *szForm);
void MakePaymentForm(int iTermId, PAYMENT_DATA
*pPaymentData, BOOL bInput, char *szForm);
void MakeOrderStatusForm(int iTermId,
ORDER_STATUS_DATA *pOrderStatusData, BOOL bInput,
char *szForm);
void MakeDeliveryForm(int iTermId, DELIVERY_DATA
*pDeliveryData, BOOL bInput, char *szForm);
void ProcessNewOrderForm(EXTENSION_CONTROL_BLOCK
          *pECB, int iTermId, char *szBuffer);
void ProcessPaymentForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void ProcessOrderStatusForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
void ProcessDeliveryForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void ProcessStockLevelForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void GetNewOrderData(LPSTR lpszQueryString,
NEW_ORDER_DATA *pNewOrderData);
void GetPaymentData(LPSTR lpszQueryString,
PAYMENT_DATA *pPaymentData);
void GetOrderStatusData(LPSTR lpszQueryString,
ORDER_STATUS_DATA *pOrderStatusData);
BOOL PostDeliveryInfo(long w_id, short o_carrier_id);
BOOL IsNumeric(char *ptr);
BOOL IsDecimal(char *ptr);
void DeliveryWorkerThread(void *ptr);
```

tpcc.rc

```
//Microsoft Developer Studio generated resource
script.
//
#include "resource.h"

#define APSTUDIO_READONLY_SYMBOLS
////////////////////////////////////////////////////
//////////////////////
//
// Generated from the TEXTINCLUDE 2 resource.
//
#include "afxres.h"

////////////////////////////////////////////////////
//////////////////////
#undef APSTUDIO_READONLY_SYMBOLS

////////////////////////////////////////////////////
//////////////////////
// English (U.S.) resources

#if !defined(AFX_RESOURCE_DLL) ||
defined(AFX_TARG_ENU)
#ifdef _WIN32
LANGUAGE LANG_ENGLISH, SUBLANG_ENGLISH_US
#pragma code_page(1252)
#endif //_WIN32

#ifndef _MAC
////////////////////////////////////////////////////
//////////////////////
//
// Version
//

VS_VERSION_INFO VERSIONINFO
 FILEVERSION 0,4,0,0
 PRODUCTVERSION 0,4,0,0
 FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
 FILEFLAGS 0x1L
#else
 FILEFLAGS 0x0L
#endif
 FILEOS 0x40004L
 FILETYPE 0x2L
 FILESUBTYPE 0x0L
BEGIN
    BLOCK "StringFileInfo"
    BEGIN
        BLOCK "040904b0"
        BEGIN
            VALUE "Comments", "TPC-C HTML DLL Server
(DBLIB)\0"
            VALUE "CompanyName", "Microsoft\0"
            VALUE "FileDescription", "TPC-C HTML DLL
Server (DBLIB)\0"
            VALUE "FileVersion", "0, 4, 0, 0\0"
            VALUE "InternalName", "tpcc\0"
            VALUE "LegalCopyright", "Copyright ©
1997\0"
            VALUE "OriginalFilename", "tpcc.dll\0"
            VALUE "ProductName", "Microsoft tpcc\0"
            VALUE "ProductVersion", "0, 4, 0, 0\0"
        END
    END
    BLOCK "VarFileInfo"
    BEGIN
        VALUE "Translation", 0x409, 1200
    END
END

#endif    // !_MAC


#ifdef APSTUDIO_INVOKED
////////////////////////////////////////////////////
//////////////////////
//
// TEXTINCLUDE
//

1 TEXTINCLUDE DISCARDABLE
BEGIN
    "resource.h\0"
END

2 TEXTINCLUDE DISCARDABLE
BEGIN
    "#include ""afxres.h""\r\n"
    "\0"
END

3 TEXTINCLUDE DISCARDABLE
BEGIN
    "\r\n"
    "\0"
END

#endif    // APSTUDIO_INVOKED


////////////////////////////////////////////////////
//////////////////////
//
// Dialog
//

IDD_DIALOG1 DIALOG DISCARDABLE  0, 0, 186, 95
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION |
WS_SYSMENU
CAPTION "Dialog"
FONT 8, "MS Sans Serif"
BEGIN
    DEFPUSHBUTTON   "OK",IDOK,129,7,50,14
    PUSHBUTTON      "Cancel",IDCANCEL,129,24,50,14
END


////////////////////////////////////////////////////
//////////////////////
//
// DESIGNINFO
//

#ifdef APSTUDIO_INVOKED
GUIDELINES DESIGNINFO DISCARDABLE
BEGIN
    IDD_DIALOG1, DIALOG
    BEGIN
        LEFTMARGIN, 7
        RIGHTMARGIN, 179
        TOPMARGIN, 7
        BOTTOMMARGIN, 88
    END
END
#endif    // APSTUDIO_INVOKED

#endif    // English (U.S.) resources
////////////////////////////////////////////////////
//////////////////////



#ifndef APSTUDIO_INVOKED
////////////////////////////////////////////////////
//////////////////////
//
// Generated from the TEXTINCLUDE 3 resource.
//


////////////////////////////////////////////////////
//////////////////////
#endif    // not APSTUDIO_INVOKED
```

tpcc_com.cpp

```
/*        FILE:                TPCC_COM.CPP
 *                                        Microsoft
TPC-C Kit Ver. 4.20.000
 *                                        Copyright
Microsoft, 1999
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
 *              All Rights Reserved
 *
 *                                      not yet
audited
 *
 *        PURPOSE:  Source file for TPC-C COM+ class
implementation.
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                  4.20.000 - first version
 */

// needed for CoinitializeEx
#define _WIN32_WINNT 0x0400

#include <windows.h>

// need to declare functions for export
#define DllDecl  __declspec( dllexport )

#include "..\..\common\src\trans.h"
          //tpckit transaction header contains
definations of structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_com.h"

#include "..\..\tpcc_com_ps\src\tpcc_com_ps_i.c"
#include "..\..\tpcc_com_all\src\tpcc_com_all_i.c"

// wrapper routine for class constructor
__declspec(dllexport) CTPCC_COM* CTPCC_COM_new(BOOL
bSinglePool)
{
          return new CTPCC_COM(bSinglePool);
}

CTPCC_COM::CTPCC_COM(BOOL bSinglePool)
{
          HRESULT hr = NULL;
          long lRet = 0;
          ULONG ulTmpSize = 0;

          m_pTxn                          = NULL;
          m_pNewOrder                     = NULL;
          m_pPayment                      = NULL;
          m_pStockLevel       = NULL;
          m_pOrderStatus      = NULL;

          m_bSinglePool       = bSinglePool;

          ulTmpSize = (ULONG) sizeof(COM_DATA);
          VariantInit(&m_vTxn);
          m_vTxn.vt = VT_SAFEARRAY;

          m_vTxn.parray =
SafeArrayCreateVector(VT_UI1, ulTmpSize, ulTmpSize);
          if (!m_vTxn.parray)
                    throw new CCOMERR( E_FAIL );
          memset((void*)m_vTxn.parray-
>pvData,0,ulTmpSize);
          m_pTxn = (COM_DATA*)m_vTxn.parray->pvData;

          hr = CoInitializeEx(NULL,
COINIT_MULTITHREADED);
          if (FAILED(hr))
          {
                    throw new CCOMERR( hr );
          }

          // create components
          if (m_bSinglePool)
          {
                    hr = CoCreateInstance(CLSID_TPCC,
NULL, CLSCTX_SERVER, IID_ITPCC, (void
**)&m_pNewOrder);
                    if (FAILED(hr))
                              throw new CCOMERR(hr);

                    // all txns will use same
component
                    m_pPayment = m_pNewOrder;
                    m_pStockLevel = m_pNewOrder;
                    m_pOrderStatus = m_pNewOrder;
          }
          else
          {
                    // use different components for
each txn

                    hr =
CoCreateInstance(CLSID_NewOrder, NULL, CLSCTX_SERVER,
IID_ITPCC, (void **)&m_pNewOrder);
                    if (FAILED(hr))
                              throw new CCOMERR(hr);

                    hr =
CoCreateInstance(CLSID_Payment, NULL, CLSCTX_SERVER,
IID_ITPCC, (void **)&m_pPayment);
                    if (FAILED(hr))
                              throw new CCOMERR(hr);

                    hr =
CoCreateInstance(CLSID_StockLevel, NULL,
CLSCTX_SERVER, IID_ITPCC, (void **)&m_pStockLevel);
                    if (FAILED(hr))
                              throw new CCOMERR(hr);

                    hr =
CoCreateInstance(CLSID_OrderStatus, NULL,
CLSCTX_SERVER, IID_ITPCC, (void **)&m_pOrderStatus);
                    if (FAILED(hr))
                              throw new CCOMERR(hr);
          }

          // call setcomplete to release each
component back into pool
          hr = m_pNewOrder->CallSetComplete();
          if (FAILED(hr))
                    throw new CCOMERR(hr);

          if (!m_bSinglePool)
          {
                    hr = m_pPayment-
>CallSetComplete();
                    if (FAILED(hr))
                              throw new CCOMERR(hr);

                    hr = m_pStockLevel-
>CallSetComplete();
                    if (FAILED(hr))
                              throw new CCOMERR(hr);

                    hr = m_pOrderStatus-
>CallSetComplete();
                    if (FAILED(hr))
                              throw new CCOMERR(hr);
          }
}

CTPCC_COM::~CTPCC_COM()
{
          if (m_pTxn)
                    SafeArrayDestroy(m_vTxn.parray);

          ReleaseInterface(m_pNewOrder);
          if (!m_bSinglePool)
          {
                    ReleaseInterface(m_pPayment);
                    ReleaseInterface(m_pStockLevel);
                    ReleaseInterface(m_pOrderStatus);
          }
          CoUninitialize();
}

void CTPCC_COM::NewOrder()
{
          VARIANT   vTxn_out;

          HRESULT hr = m_pNewOrder->NewOrder(m_vTxn,
&vTxn_out);
          if (FAILED(hr))
                    throw new CCOMERR( hr );
          memcpy(m_pTxn, (void *)vTxn_out.parray-
>pvData,vTxn_out.parray->rgsabound[0].cElements);
          SafeArrayDestroy(vTxn_out.parray);

          if ( m_pTxn->ErrorType != ERR_SUCCESS )
                    throw new CCOMERR( m_pTxn-
>ErrorType, m_pTxn->error );
}

void CTPCC_COM::Payment()
{
          VARIANT   vTxn_out;

          HRESULT hr = m_pPayment->Payment(m_vTxn,
&vTxn_out);
          if (FAILED(hr))
                    throw new CCOMERR( hr );
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        memcpy(m_pTxn, (void *)vTxn_out.parray-
>pvData,vTxn_out.parray->rgsabound[0].cElements);
        SafeArrayDestroy(vTxn_out.parray);

        if ( m_pTxn->ErrorType != ERR_SUCCESS )
                throw new CCOMERR( m_pTxn-
>ErrorType, m_pTxn->error );
}

void CTPCC_COM::StockLevel()
{
        VARIANT   vTxn_out;

        HRESULT hr = m_pStockLevel-
>StockLevel(m_vTxn, &vTxn_out);
        if (FAILED(hr))
                throw new CCOMERR( hr );
        memcpy(m_pTxn, (void *)vTxn_out.parray-
>pvData,vTxn_out.parray->rgsabound[0].cElements);
        SafeArrayDestroy(vTxn_out.parray);

        if ( m_pTxn->ErrorType != ERR_SUCCESS )
                throw new CCOMERR( m_pTxn-
>ErrorType, m_pTxn->error );
}

void CTPCC_COM::OrderStatus()
{
        VARIANT   vTxn_out;

        HRESULT hr = m_pOrderStatus-
>OrderStatus(m_vTxn, &vTxn_out);
        if (FAILED(hr))
                throw new CCOMERR( hr );
        memcpy(m_pTxn, (void *)vTxn_out.parray-
>pvData,vTxn_out.parray->rgsabound[0].cElements);
        SafeArrayDestroy(vTxn_out.parray);

        if ( m_pTxn->ErrorType != ERR_SUCCESS )
                throw new CCOMERR( m_pTxn-
>ErrorType, m_pTxn->error );
}
```

tpcc_com.h

```
/*      FILE:                   TPCC_COM.H
 *                                      Microsoft
TPC-C Kit Ver. 4.20.000
 *                                      Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                                      not yet
audited
 *
 *      PURPOSE:  Header file for TPC-C COM+ class
implementation.
 *
 *  Change history:
 *                  4.20.000 - first version
 */

#pragma once

#include <stdio.h>
#include "..\..\tpcc_com_ps\src\tpcc_com_ps.h"

// need to declare functions for import, unless
define has already been created
// by the DLL's .cpp module for export.
#ifndef DllDecl
#define DllDecl  __declspec( dllimport )
#endif

class CCOMERR : public CBaseErr
{
        private:
                char m_szErrorText[64];

        public:
                // use this interface for genuine
COM errors
                CCOMERR( HRESULT hr )
                {
                        m_hr = hr;
                        m_iErrorType = 0;
                        m_iError = 0;
                }

                // use this interface to
impersonate a non-COM error type
                CCOMERR( int iErrorType, int
iError )
                {
                        m_iErrorType =
iErrorType;
                        m_iError = iError;
                        m_hr = S_OK;
                }

                int             m_hr;
                int             m_iErrorType;
                int             m_iError;

                // A CCOMERR class can
impersonate another class, which happens if the error
                // was not actually a COM
Services error, but was simply transmitted back via
COM.
                int ErrorType()
                {
                        if (m_iErrorType == 0)
                                return
ERR_TYPE_COM;
                        else
                                return
m_iErrorType;
                }

                char *ErrorTypeStr() { return
"COM"; }
                int ErrorNum() {return m_hr;}

                char *ErrorText()
                {
                        if (m_hr == S_OK)
                                sprintf(
m_szErrorText, "Error: Class %d, error # %d",
m_iErrorType, m_iError );
                        else
                                sprintf(
m_szErrorText, "Error: COM HRESULT %x", m_hr );
                        return m_szErrorText;
                }
};

class DllDecl CTPCC_COM : public CTPCC_BASE
{
        private:
                BOOL m_bSinglePool;

                // COM Interface pointers
                ITPCC*
        m_pNewOrder;
                ITPCC*
        m_pPayment;
                ITPCC*
        m_pStockLevel;
                ITPCC*
        m_pOrderStatus;

                struct COM_DATA
                {
                        int ErrorType;
                        int error;
                        union
                        {

        NEW_ORDER_DATA                  NewOrder;
                                        PAYMENT_DATA
                Payment;
                                        DELIVERY_DATA
                Delivery;

        STOCK_LEVEL_DATA    StockLevel;

        ORDER_STATUS_DATA   OrderStatus;
                        } u;
                } *m_pTxn;

                VARIANT m_vTxn;
        public:
                CTPCC_COM(BOOL bSinglePool);
                ~CTPCC_COM(void);

                inline PNEW_ORDER_DATA
        BuffAddr_NewOrder()             { return
&m_pTxn->u.NewOrder;    };
                inline PPAYMENT_DATA
        BuffAddr_Payment()              { return
&m_pTxn->u.Payment;     };
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    inline PDELIVERY_DATA
          BuffAddr_Delivery()           { return
&m_pTxn->u.Delivery;    };
                    inline PSTOCK_LEVEL_DATA
          BuffAddr_StockLevel()         { return
&m_pTxn->u.StockLevel;  };
                    inline PORDER_STATUS_DATA
          BuffAddr_OrderStatus()        { return
&m_pTxn->u.OrderStatus; };

                    void NewOrder                 ();
                    void Payment                  ();
                    void StockLevel               ();
                    void OrderStatus    ();
                    void Delivery                 ()
{ throw new CCOMERR(E_NOTIMPL); }  // not supported
};


inline void ReleaseInterface(IUnknown *pUnk)
{
          if (pUnk)
          {
                    pUnk->Release();
                    pUnk = NULL;
          }
}


// wrapper routine for class constructor
extern "C" __declspec(dllexport) CTPCC_COM*
CTPCC_COM_new(BOOL);

typedef CTPCC_COM* (TYPE_CTPCC_COM)(BOOL);
```

tpcc_com_all.cpp

```
/*        FILE:                TPCC_COM_ALL.CPP
 *                                       Microsoft
TPC-C Kit Ver. 4.20.000
 *                                       Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                                       Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Implementation for TPC-C Tuxedo
class.
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                4.20.000 - updated rev number to
match kit
 */

#define STRICT
#define _WIN32_WINNT 0x0400
#define _ATL_APARTMENT_THREADED

#include <stdio.h>
#include <atlbase.h>
//You may derive a class from CComModule and use it
if you want to override
//something, but do not change the name of _Module
extern CComModule _Module;

#include <atlcom.h>
#include <initguid.h>
#include <transact.h>
//#include <atlimpl.cpp>
#include <comsvcs.h>

#include <sqltypes.h>
#include <sql.h>
#include <sqlext.h>

#include "tpcc_com_ps.h"
#include "..\..\common\src\trans.h"
                                  //tpckit transaction
header contains defination of structures specific to
TPC-C
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\error.h"
#include "..\..\common\src\ReadRegistry.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h"
          // DBLIB implementation of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h"
          // ODBC implementation of TPC-C txns

#include "resource.h"
#include "tpcc_com_all.h"
#include "tpcc_com_all_i.c"
#include "Methods.h"
#include "..\..\tpcc_com_ps\src\tpcc_com_ps_i.c"
#include "..\..\common\src\ReadRegistry.cpp"


CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)
          OBJECT_ENTRY(CLSID_TPCC, CTPCC)
          OBJECT_ENTRY(CLSID_NewOrder, CNewOrder)
          OBJECT_ENTRY(CLSID_OrderStatus,
COrderStatus)
          OBJECT_ENTRY(CLSID_Payment, CPayment)
          OBJECT_ENTRY(CLSID_StockLevel, CStockLevel)
END_OBJECT_MAP()


// configuration settings from registry
TPCCREGISTRYDATA    Reg;
char
          szMyComputerName[MAX_COMPUTERNAME_LENGTH+1]
;

static  HINSTANCE hLibInstanceDb = NULL;

TYPE_CTPCC_DBLIB    *pCTPCC_DBLIB_new;
TYPE_CTPCC_ODBC               *pCTPCC_ODBC_new;

// Critical section to synchronize connection open
and close.
//
CRITICAL_SECTION hConnectCriticalSection;

////////////////////////////////////////////////////
////////////////////////
// DLL Entry Point

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInstance, DWORD
dwReason, LPVOID /*lpReserved*/)
{
          char szDllName[128];

          try
          {
                    if (dwReason ==
DLL_PROCESS_ATTACH)
                    {
                              _Module.Init(ObjectMap,
hInstance);

          DisableThreadLibraryCalls(hInstance);

                              DWORD dwSize =
MAX_COMPUTERNAME_LENGTH+1;

          GetComputerName(szMyComputerName, &dwSize);

          szMyComputerName[dwSize] = 0;

                              if (
ReadTPCCRegistrySettings( &Reg ) )
                                        throw new
CCOMPONENT_ERR( ERR_MISSING_REGISTRY_ENTRIES );

                              if (Reg.eDB_Protocol ==
DBLIB)
                              {
                                        strcpy(
szDllName, Reg.szPath );
                                        strcat(
szDllName, "tpcc_dblib.dll");

          hLibInstanceDb = LoadLibrary( szDllName );
                                        if
(hLibInstanceDb == NULL)

          throw new CCOMPONENT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                                        // get
function pointer to wrapper for class constructor
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        pCTPCC_DBLIB_new = (TYPE_CTPCC_DBLIB*)
GetProcAddress(hLibInstanceDb,"CTPCC_DBLIB_new");
                                        if
(pCTPCC_DBLIB_new == NULL)

        throw new CCOMPONENT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                                }
                                else if
(Reg.eDB_Protocol == ODBC)
                                {
                                        strcpy(
szDllName, Reg.szPath );
                                        strcat(
szDllName, "tpcc_odbc.dll");

        hLibInstanceDb = LoadLibrary( szDllName );
                                        if
(hLibInstanceDb == NULL)

        throw new CCOMPONENT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                                        // get
function pointer to wrapper for class constructor

        pCTPCC_ODBC_new = (TYPE_CTPCC_ODBC*)
GetProcAddress(hLibInstanceDb,"CTPCC_ODBC_new");
                                        if
(pCTPCC_ODBC_new == NULL)

        throw new CCOMPONENT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                                }
                                else
                                        throw new
CCOMPONENT_ERR( ERR_UNKNOWN_DB_PROTOCOL );

                                if (Reg.dwConnectDelay
> 0)
                                {

        InitializeCriticalSection(&hConnectCritical
Section);
                                }

                        }
                        else if (dwReason ==
DLL_PROCESS_DETACH)
                                _Module.Term();

        }
        catch (CBaseErr *e)
        {
                TCHAR szMsg[256];

                _sntprintf(szMsg, sizeof(szMsg),
"%s error, code %d: %s",
                                        e-
>ErrorTypeStr(), e->ErrorNum(), e->ErrorText());
                WriteMessageToEventLog( szMsg );

                delete e;
                return FALSE;
        }
        catch (...)
        {

        WriteMessageToEventLog(TEXT("Unhandled
exception in object DllMain"));
                return FALSE;
        }

        return TRUE;        // OK
}

////////////////////////////////////////////////////
//////////////////////
// Used to determine whether the DLL can be unloaded
by OLE

STDAPI DllCanUnloadNow(void)
{
        return (_Module.GetLockCount()==0) ? S_OK :
S_FALSE;
}

////////////////////////////////////////////////////
//////////////////////
// Returns a class factory to create an object of the
requested type

STDAPI DllGetClassObject(REFCLSID rclsid, REFIID
riid, LPVOID* ppv)
{
        return _Module.GetClassObject(rclsid, riid,
ppv);
}

////////////////////////////////////////////////////
//////////////////////
// DllRegisterServer - Adds entries to the system
registry

STDAPI DllRegisterServer(void)
{
        // registers object, typelib and all
interfaces in typelib
        return _Module.RegisterServer(TRUE);
}

////////////////////////////////////////////////////
//////////////////////
// DllUnregisterServer - Removes entries from the
system registry

STDAPI DllUnregisterServer(void)
{
        _Module.UnregisterServer();
        return S_OK;
}

static void WriteMessageToEventLog(LPTSTR lpszMsg)
{
    TCHAR   szMsg[256];
    HANDLE  hEventSource;
    LPTSTR  lpszStrings[2];

    // Use event logging to log the error.
    //
    hEventSource = RegisterEventSource(NULL,
TEXT("tpcc_com_all.dll"));

    _stprintf(szMsg, TEXT("Error in COM+ TPC-C
Component: "));
    lpszStrings[0] = szMsg;
    lpszStrings[1] = lpszMsg;

    if (hEventSource != NULL)
        {
        ReportEvent(hEventSource, // handle of event
source
            EVENTLOG_ERROR_TYPE,  // event type
            0,                    // event category
            0,                    // event ID
            NULL,                 // current user's
SID
            2,                    // strings in
lpszStrings
            0,                    // no bytes of raw
data
            (LPCTSTR *)lpszStrings,    // array of
error strings
            NULL);                // no raw data

        (VOID) DeregisterEventSource(hEventSource);
    }
}

inline void ReleaseInterface(IUnknown *pUnk)
{
        if (pUnk)
        {
                pUnk->Release();
                pUnk = NULL;
        }
}

/* FUNCTION: CCOMPONENT_ERR::ErrorText
 *
 */

char* CCOMPONENT_ERR::ErrorText(void)
{
        static SERRORMSG errorMsgs[] =
        {
                { ERR_MISSING_REGISTRY_ENTRIES,
        "Required entries missing from registry."
                                        },
                { ERR_LOADDLL_FAILED,
                "Load of DLL failed.  DLL="
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    },
                    { ERR_GETPROCADDR_FAILED,
          "Could not map proc in DLL.  GetProcAddr
error.  DLL="       },
                    { ERR_UNKNOWN_DB_PROTOCOL,
          "Unknown database protocol specified in
registry."                    },
                    { 0,
                                        ""


                              }
          };

          char szTmp[256];
          int i = 0;
          while (TRUE)
          {
                    if (errorMsgs[i].szMsg[0] == 0)
                    {
                              strcpy( szTmp, "Unknown
error number." );
                              break;
                    }
                    if (m_Error ==
errorMsgs[i].iError)
                    {
                              strcpy( szTmp,
errorMsgs[i].szMsg );
                              break;
                    }
                    i++;
          }

          if (m_szTextDetail)
                    strcat( szTmp, m_szTextDetail );
          if (m_SystemErr)
                    wsprintf( szTmp+strlen(szTmp), "
Error=%d", m_SystemErr );

          m_szErrorText = new char[strlen(szTmp)+1];
          strcpy( m_szErrorText, szTmp );
          return m_szErrorText;
}


CTPCC_Common::CTPCC_Common()
{
          m_pTxn = NULL;
          m_bCanBePooled = TRUE;
}

CTPCC_Common::~CTPCC_Common()
{
          // Pace connection close for VIA.
          //
          if (Reg.dwConnectDelay > 0)
          {
                    EnterCriticalSection(&hConnectCriticalSecti
on);

                              Sleep(Reg.dwConnectDelay);
                    }

                    if (m_pTxn)
                    {
                              delete m_pTxn;
                    }

                    if (Reg.dwConnectDelay > 0)
                    {

                    LeaveCriticalSection(&hConnectCriticalSecti
on);
                    }
}

HRESULT CTPCC_Common::CallSetComplete()
{
          IObjectContext* pObjectContext = NULL;

          // get our object context
          HRESULT hr = CoGetObjectContext(
IID_IObjectContext, (void **)&pObjectContext );
          pObjectContext->SetComplete();
          ReleaseInterface(pObjectContext);
          return hr;
}


//
//        called by the ctor activator
//
STDMETHODIMP CTPCC_Common::Construct(IDispatch *
pUnk)
{
          // Code to access construction string, if
needed later...
          //        if (!pUnk)
          //                  return E_UNEXPECTED;
          //        IObjectConstructString * pString
= NULL;
          //        HRESULT hr = pUnk-
>QueryInterface(IID_IObjectConstructString, (void
**)&pString);
          //        pString->Release();

          try
          {
                    // Pace connection creation for
VIA.
                    //
                    if (Reg.dwConnectDelay > 0)
                    {

                    EnterCriticalSection(&hConnectCriticalSecti
on);

                              Sleep(Reg.dwConnectDelay);
                    }

                    if (Reg.eDB_Protocol == ODBC)
                              m_pTxn =
pCTPCC_ODBC_new(    Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword,


                    szMyComputerName, Reg.szDbName,


                    Reg.szSPPrefix,
Reg.bCallNoDuplicatesNewOrder );
                    else if (Reg.eDB_Protocol ==
DBLIB)
                              m_pTxn =
pCTPCC_DBLIB_new( Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword, szMyComputerName, Reg.szDbName );

                    if (Reg.dwConnectDelay > 0)
                    {

                    LeaveCriticalSection(&hConnectCriticalSecti
on);
                    }
          }
          catch (CBaseErr *e)
          {
                    TCHAR szMsg[256];

                    _sntprintf(szMsg, sizeof(szMsg),
"%s error in CTPCC_Common::Construct, code %d: %s",
                                                  e-
>ErrorTypeStr(), e->ErrorNum(), e->ErrorText());
                    WriteMessageToEventLog( szMsg );
                    delete e;
                    return E_FAIL;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception in object ::Construct"));
                    return E_FAIL;
          }

          return S_OK;
}

HRESULT CTPCC_Common::NewOrder(VARIANT txn_in,
VARIANT* txn_out)
{
          PNEW_ORDER_DATA     pNewOrder;
          COM_DATA            *pData;
          try
          {
                    pData = (COM_DATA*)txn_in.parray-
>pvData;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    pNewOrder = m_pTxn-
>BuffAddr_NewOrder();

                    memcpy(pNewOrder, &pData-
>u.NewOrder, sizeof(NEW_ORDER_DATA));

                    m_pTxn->NewOrder();           //
do the actual txn

                    VariantInit(txn_out);
                    txn_out->vt = VT_SAFEARRAY;
                    txn_out->parray =
SafeArrayCreateVector(VT_UI1,

                    txn_in.parray->rgsabound-
>cElements,

                    txn_in.parray->rgsabound-
>cElements);
                    pData = (COM_DATA*) txn_out-
>parray->pvData;

                    memcpy( &pData->u.NewOrder,
pNewOrder, sizeof(NEW_ORDER_DATA));

                    pData->retval = ERR_SUCCESS;
                    pData->error = 0;
                    return S_OK;
          }
          catch (CBaseErr *e)
          {
                    // check for lost database
connection; if yes, component is toast
                    if ( ((e->ErrorType() ==
ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ||
                              ((e->ErrorType() ==
ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) )
                              m_bCanBePooled = FALSE;

                    pData->retval = e->ErrorType();
                    pData->error = e->ErrorNum();
                    delete e;
                    return E_FAIL;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception."));
                    pData->retval = ERR_TYPE_LOGIC;
                    pData->error = 0;
                    m_bCanBePooled = FALSE;
                    return E_FAIL;
          }
}

HRESULT CTPCC_Common::Payment(VARIANT txn_in,
VARIANT* txn_out)
{
          PPAYMENT_DATA       pPayment;
          COM_DATA            *pData;

          try
          {
                    pData = (COM_DATA*)txn_in.parray-
>pvData;
                    pPayment = m_pTxn-
>BuffAddr_Payment();

                    memcpy(pPayment, &pData-
>u.Payment, sizeof(PAYMENT_DATA));

                    m_pTxn->Payment();            //
do the actual txn

                    VariantInit(txn_out);
                    txn_out->vt = VT_SAFEARRAY;
                    txn_out->parray =
SafeArrayCreateVector( VT_UI1,

                    txn_in.parray->rgsabound-
>cElements,

                    txn_in.parray->rgsabound-
>cElements);
                    pData = (COM_DATA*) txn_out-
>parray->pvData;

                    memcpy( &pData->u.Payment,
pPayment, sizeof(PAYMENT_DATA));

                    pData->retval = ERR_SUCCESS;
                    pData->error = 0;
                    return S_OK;
          }
          catch (CBaseErr *e)
          {
                    // check for lost database
connection; if yes, component is toast
                    if ( ((e->ErrorType() ==
ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ||
                              ((e->ErrorType() ==
ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) )
                              m_bCanBePooled = FALSE;

                    pData->retval = e->ErrorType();
                    pData->error = e->ErrorNum();
                    delete e;
                    return E_FAIL;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception."));
                    pData->retval = ERR_TYPE_LOGIC;
                    pData->error = 0;
                    m_bCanBePooled = FALSE;
                    return E_FAIL;
          }
}

HRESULT CTPCC_Common::StockLevel(VARIANT txn_in,
VARIANT* txn_out)
{
          PSTOCK_LEVEL_DATA   pStockLevel;
          COM_DATA                      *pData;

          try
          {
                    pData = (COM_DATA*)txn_in.parray-
>pvData;
                    pStockLevel = m_pTxn-
>BuffAddr_StockLevel();

                    memcpy(pStockLevel, &pData-
>u.StockLevel, sizeof(STOCK_LEVEL_DATA));

                    m_pTxn->StockLevel();

                    VariantInit(txn_out);
                    txn_out->vt = VT_SAFEARRAY;
                    txn_out->parray =
SafeArrayCreateVector( VT_UI1,

                    txn_in.parray->rgsabound-
>cElements,

                    txn_in.parray->rgsabound-
>cElements);
                    pData = (COM_DATA*)txn_out-
>parray->pvData;

                    memcpy( &pData->u.StockLevel,
pStockLevel, sizeof(STOCK_LEVEL_DATA));

                    pData->retval = ERR_SUCCESS;
                    pData->error = 0;
                    return S_OK;
          }
          catch (CBaseErr *e)
          {
                    // check for lost database
connection; if yes, component is toast
                    if ( ((e->ErrorType() ==
ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ||
                              ((e->ErrorType() ==
ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) )
                              m_bCanBePooled = FALSE;

                    pData->retval = e->ErrorType();
                    pData->error = e->ErrorNum();
                    delete e;
                    return E_FAIL;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception."));
                    pData->retval = ERR_TYPE_LOGIC;
                    pData->error = 0;
                    m_bCanBePooled = FALSE;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                return E_FAIL;
        }
}

HRESULT CTPCC_Common::OrderStatus(VARIANT txn_in,
VARIANT* txn_out)
{
        PORDER_STATUS_DATA  pOrderStatus;
        COM_DATA                        *pData;
        try
        {
                pData = (COM_DATA*)txn_in.parray-
>pvData;
                pOrderStatus = m_pTxn-
>BuffAddr_OrderStatus();

                memcpy(pOrderStatus, &pData-
>u.OrderStatus, sizeof(ORDER_STATUS_DATA));

                m_pTxn->OrderStatus();

                VariantInit(txn_out);
                txn_out->vt = VT_SAFEARRAY;
                txn_out->parray =
SafeArrayCreateVector( VT_UI1,

                txn_in.parray->rgsabound-
>cElements,

                txn_in.parray->rgsabound-
>cElements);
                pData = (COM_DATA*)txn_out-
>parray->pvData;

                memcpy( &pData->u.OrderStatus,
pOrderStatus, sizeof(ORDER_STATUS_DATA));

                pData->retval = ERR_SUCCESS;
                pData->error = 0;
                return S_OK;
        }
        catch (CBaseErr *e)
        {
                // check for lost database
connection; if yes, component is toast
                if ( ((e->ErrorType() ==
ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ||
                                ((e->ErrorType() ==
ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) )
                        m_bCanBePooled = FALSE;

                pData->retval = e->ErrorType();
                pData->error = e->ErrorNum();
                delete e;
                return E_FAIL;
        }
        catch (...)
        {

        WriteMessageToEventLog(TEXT("Unhandled
exception."));
                pData->retval = ERR_TYPE_LOGIC;
                pData->error = 0;
                m_bCanBePooled = FALSE;
                return E_FAIL;
        }
}
```

tpcc_com_all.h

```
#pragma warning( disable: 4049 )  /* more than 64k
source lines */

/* this ALWAYS GENERATED file contains the
definitions for the interfaces */


 /* File created by MIDL compiler version 6.00.0347
*/
/* at Fri Apr 15 14:48:53 2005
 */
/* Compiler settings for .\src\tpcc_com_all.idl:
    Oicf, W1, Zp8, env=Win32 (32b run)
    protocol : dce , ms_ext, c_ext
    error checks: allocation ref bounds_check enum
stub_data
    VC __declspec() decoration level:
         __declspec(uuid()), __declspec(selectany),
__declspec(novtable)
         DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )


/* verify that the <rpcndr.h> version is high enough
to compile this file*/
#ifndef __REQUIRED_RPCNDR_H_VERSION__
#define __REQUIRED_RPCNDR_H_VERSION__ 440
#endif

#include "rpc.h"
#include "rpcndr.h"

#ifndef __tpcc_com_all_h__
#define __tpcc_com_all_h__

#if defined(_MSC_VER) && (_MSC_VER >= 1020)
#pragma once
#endif

/* Forward Declarations */

#ifndef __TPCC_FWD_DEFINED__
#define __TPCC_FWD_DEFINED__

#ifdef __cplusplus
typedef class TPCC TPCC;
#else
typedef struct TPCC TPCC;
#endif /* __cplusplus */

#endif    /* __TPCC_FWD_DEFINED__ */


#ifndef __NewOrder_FWD_DEFINED__
#define __NewOrder_FWD_DEFINED__

#ifdef __cplusplus
typedef class NewOrder NewOrder;
#else
typedef struct NewOrder NewOrder;
#endif /* __cplusplus */

#endif    /* __NewOrder_FWD_DEFINED__ */


#ifndef __OrderStatus_FWD_DEFINED__
#define __OrderStatus_FWD_DEFINED__

#ifdef __cplusplus
typedef class OrderStatus OrderStatus;
#else
typedef struct OrderStatus OrderStatus;
#endif /* __cplusplus */

#endif    /* __OrderStatus_FWD_DEFINED__ */


#ifndef __Payment_FWD_DEFINED__
#define __Payment_FWD_DEFINED__

#ifdef __cplusplus
typedef class Payment Payment;
#else
typedef struct Payment Payment;
#endif /* __cplusplus */

#endif    /* __Payment_FWD_DEFINED__ */


#ifndef __StockLevel_FWD_DEFINED__
#define __StockLevel_FWD_DEFINED__

#ifdef __cplusplus
typedef class StockLevel StockLevel;
#else
typedef struct StockLevel StockLevel;
#endif /* __cplusplus */

#endif    /* __StockLevel_FWD_DEFINED__ */


/* header files for imported files */
#include "oaidl.h"
#include "ocidl.h"
#include "tpcc_com_ps.h"

#ifdef __cplusplus
extern "C"{
#endif
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
void * __RPC_USER MIDL_user_allocate(size_t);
void __RPC_USER MIDL_user_free( void * );

/* interface __MIDL_itf_tpcc_com_all_0000 */
/* [local] */




extern RPC_IF_HANDLE
__MIDL_itf_tpcc_com_all_0000_v0_0_c_ifspec;
extern RPC_IF_HANDLE
__MIDL_itf_tpcc_com_all_0000_v0_0_s_ifspec;


#ifndef __TPCCLib_LIBRARY_DEFINED__
#define __TPCCLib_LIBRARY_DEFINED__

/* library TPCCLib */
/* [helpstring][version][uuid] */


EXTERN_C const IID LIBID_TPCCLib;

EXTERN_C const CLSID CLSID_TPCC;

#ifdef __cplusplus

class DECLSPEC_UUID("122A3128-2520-11D3-BA71-
00C04FBFE08B")
TPCC;
#endif

EXTERN_C const CLSID CLSID_NewOrder;

#ifdef __cplusplus

class DECLSPEC_UUID("975BAABF-84A7-11D2-BA47-
00C04FBFE08B")
NewOrder;
#endif

EXTERN_C const CLSID CLSID_OrderStatus;

#ifdef __cplusplus

class DECLSPEC_UUID("266836AD-A50D-11D2-BA4E-
00C04FBFE08B")
OrderStatus;
#endif

EXTERN_C const CLSID CLSID_Payment;

#ifdef __cplusplus

class DECLSPEC_UUID("CD02F7EF-A4FA-11D2-BA4E-
00C04FBFE08B")
Payment;
#endif

EXTERN_C const CLSID CLSID_StockLevel;

#ifdef __cplusplus

class DECLSPEC_UUID("2668369E-A50D-11D2-BA4E-
00C04FBFE08B")
StockLevel;
#endif
#endif /* __TPCCLib_LIBRARY_DEFINED__ */

/* Additional Prototypes for ALL interfaces */

/* end of Additional Prototypes */

#ifdef __cplusplus
}
#endif

#endif
```

tpcc_com_all.rc

```
//Microsoft Developer Studio generated resource
script.
//
#include "resource.h"

#define APSTUDIO_READONLY_SYMBOLS
////////////////////////////////////////////////////
//////////////////////
//
// Generated from the TEXTINCLUDE 2 resource.
//
#include "winres.h"

////////////////////////////////////////////////////
//////////////////////
#undef APSTUDIO_READONLY_SYMBOLS

////////////////////////////////////////////////////
//////////////////////
// English (U.S.) resources

#if !defined(AFX_RESOURCE_DLL) ||
defined(AFX_TARG_ENU)
#ifdef _WIN32
LANGUAGE LANG_ENGLISH, SUBLANG_ENGLISH_US
#pragma code_page(1252)
#endif //_WIN32

#ifdef APSTUDIO_INVOKED

////////////////////////////////////////////////////
//////////////////////
//
// TEXTINCLUDE
//

1 TEXTINCLUDE DISCARDABLE
BEGIN
    "resource.h\0"
END

2 TEXTINCLUDE DISCARDABLE
BEGIN
    "#include ""winres.h""\r\n"
    "\0"
END

3 TEXTINCLUDE DISCARDABLE
BEGIN
    "1 TYPELIB ""tpcc_com_all.tlb""\r\n"
    "\0"
END

#endif    // APSTUDIO_INVOKED


#ifndef _MAC
////////////////////////////////////////////////////
//////////////////////
//
// Version
//

VS_VERSION_INFO VERSIONINFO
 FILEVERSION 1,0,0,1
 PRODUCTVERSION 1,0,0,1
 FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
 FILEFLAGS 0x1L
#else
 FILEFLAGS 0x0L
#endif
 FILEOS 0x4L
 FILETYPE 0x2L
 FILESUBTYPE 0x0L
BEGIN
    BLOCK "StringFileInfo"
    BEGIN
        BLOCK "040904B0"
        BEGIN
            VALUE "CompanyName", "\0"
            VALUE "FileDescription", "tpcc_com_all
Module\0"
            VALUE "FileVersion", "1, 0, 0, 1\0"
            VALUE "InternalName", "TPCCNEWORDER\0"
            VALUE "LegalCopyright", "Copyright
1997\0"
            VALUE "OriginalFilename",
"tpcc_com_all.DLL\0"
            VALUE "ProductName", "tpcc_com_all
Module\0"
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
            VALUE "ProductVersion", "1, 0, 0, 1\0"
            VALUE "OLESelfRegister", "\0"
        END
    END
    BLOCK "VarFileInfo"
    BEGIN
        VALUE "Translation", 0x409, 1200
    END
END

#endif    // !_MAC


/////////////////////////////////////////////////////
//////////////////////
//
// REGISTRY
//

IDR_TPCC                REGISTRY DISCARDABLE
"tpcc_com_all.rgs"
IDR_NEWORDER            REGISTRY DISCARDABLE
"tpcc_com_no.rgs"
IDR_ORDERSTATUS         REGISTRY DISCARDABLE
"tpcc_com_os.rgs"
IDR_PAYMENT             REGISTRY DISCARDABLE
"tpcc_com_pay.rgs"
IDR_STOCKLEVEL          REGISTRY DISCARDABLE
"tpcc_com_sl.rgs"

/////////////////////////////////////////////////////
//////////////////////
//
// String Table
//

STRINGTABLE DISCARDABLE
BEGIN
    IDS_PROJNAME            "tpcc_com_all"
END

#endif    // English (U.S.) resources
/////////////////////////////////////////////////////
//////////////////////



#ifndef APSTUDIO_INVOKED
/////////////////////////////////////////////////////
//////////////////////
//
// Generated from the TEXTINCLUDE 3 resource.
//
1 TYPELIB "tpcc_com_all.tlb"

/////////////////////////////////////////////////////
//////////////////////
#endif    // not APSTUDIO_INVOKED
```

tpcc_com_all.rgs

```
HKCR
{
        TPCC.AllTxns.1 = s 'All Txns Class'
        {
                CLSID = s '{122A3128-2520-11D3-
BA71-00C04FBFE08B}'
        }
        TPCC.AllTxns = s 'TPCC Class'
        {
                CurVer = s 'TPCC.AllTxns.1'
        }
        NoRemove CLSID
        {
                ForceRemove {122A3128-2520-11D3-
BA71-00C04FBFE08B} = s 'TPCC Class'
                {
                        ProgID = s
'TPCC.AllTxns.1'

        VersionIndependentProgID = s 'TPCC.AllTxns'
                        InprocServer32 = s
'%MODULE%'
                        {
                                val
ThreadingModel = s 'Both'
                        }
                }
        }
}
```

tpcc_com_all_i.c

```
#pragma warning( disable: 4049 )  /* more than 64k
source lines */

/* this ALWAYS GENERATED file contains the IIDs and
CLSIDs */

/* link this file in with the server and any clients
*/


 /* File created by MIDL compiler version 6.00.0347
*/
/* at Fri Apr 15 14:48:53 2005
 */
/* Compiler settings for .\src\tpcc_com_all.idl:
    Oicf, W1, Zp8, env=Win32 (32b run)
    protocol : dce , ms_ext, c_ext
    error checks: allocation ref bounds_check enum
stub_data
    VC __declspec() decoration level:
         __declspec(uuid()), __declspec(selectany),
__declspec(novtable)
         DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )

#if !defined(_M_IA64) && !defined(_M_AMD64)

#ifdef __cplusplus
extern "C"{
#endif


#include <rpc.h>
#include <rpcndr.h>

#ifdef _MIDL_USE_GUIDDEF_

#ifndef INITGUID
#define INITGUID
#include <guiddef.h>
#undef INITGUID
#else
#include <guiddef.h>
#endif

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \

DEFINE_GUID(name,l,w1,w2,b1,b2,b3,b4,b5,b6,b7,b8)

#else // !_MIDL_USE_GUIDDEF_

#ifndef __IID_DEFINED__
#define __IID_DEFINED__

typedef struct _IID
{
    unsigned long x;
    unsigned short s1;
    unsigned short s2;
    unsigned char  c[8];
} IID;

#endif // __IID_DEFINED__

#ifndef CLSID_DEFINED
#define CLSID_DEFINED
typedef IID CLSID;
#endif // CLSID_DEFINED

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \
        const type name =
{l,w1,w2,{b1,b2,b3,b4,b5,b6,b7,b8}}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
#endif !_MIDL_USE_GUIDDEF_

MIDL_DEFINE_GUID(IID,
LIBID_TPCCLib,0x122A3117,0x2520,0x11D3,0xBA,0x71,0x00
,0xC0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_TPCC,0x122A3128,0x2520,0x11D3,0xBA,0x71,0x00,0x
C0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_NewOrder,0x975BAABF,0x84A7,0x11D2,0xBA,0x47,0x0
0,0xC0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_OrderStatus,0x266836AD,0xA50D,0x11D2,0xBA,0x4E,
0x00,0xC0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_Payment,0xCD02F7EF,0xA4FA,0x11D2,0xBA,0x4E,0x00
,0xC0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_StockLevel,0x2668369E,0xA50D,0x11D2,0xBA,0x4E,0
x00,0xC0,0x4F,0xBF,0xE0,0x8B);

#undef MIDL_DEFINE_GUID

#ifdef __cplusplus
}
#endif



#endif /* !defined(_M_IA64) && !defined(_M_AMD64)*/


#pragma warning( disable: 4049 )  /* more than 64k
source lines */

/* this ALWAYS GENERATED file contains the IIDs and
CLSIDs */

/* link this file in with the server and any clients
*/


 /* File created by MIDL compiler version 6.00.0347
*/
/* at Fri Apr 15 14:48:53 2005
 */
/* Compiler settings for .\src\tpcc_com_all.idl:
    Oicf, W1, Zp8, env=Win64 (32b run,appending)
    protocol : dce , ms_ext, c_ext, robust
    error checks: allocation ref bounds_check enum
stub_data
    VC __declspec() decoration level:
         __declspec(uuid()), __declspec(selectany),
__declspec(novtable)
         DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )

#if defined(_M_IA64) || defined(_M_AMD64)

#ifdef __cplusplus
extern "C"{
#endif


#include <rpc.h>
#include <rpcndr.h>

#ifdef _MIDL_USE_GUIDDEF_

#ifndef INITGUID
#define INITGUID
#include <guiddef.h>
#undef INITGUID
#else
#include <guiddef.h>
#endif

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \

DEFINE_GUID(name,l,w1,w2,b1,b2,b3,b4,b5,b6,b7,b8)

#else // !_MIDL_USE_GUIDDEF_

#ifndef __IID_DEFINED__
#define __IID_DEFINED__

typedef struct _IID
{
    unsigned long x;
    unsigned short s1;
    unsigned short s2;
    unsigned char  c[8];
} IID;

#endif // __IID_DEFINED__

#ifndef CLSID_DEFINED
#define CLSID_DEFINED
typedef IID CLSID;
#endif // CLSID_DEFINED

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \
        const type name =
{l,w1,w2,{b1,b2,b3,b4,b5,b6,b7,b8}}

#endif !_MIDL_USE_GUIDDEF_

MIDL_DEFINE_GUID(IID,
LIBID_TPCCLib,0x122A3117,0x2520,0x11D3,0xBA,0x71,0x00
,0xC0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_TPCC,0x122A3128,0x2520,0x11D3,0xBA,0x71,0x00,0x
C0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_NewOrder,0x975BAABF,0x84A7,0x11D2,0xBA,0x47,0x0
0,0xC0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_OrderStatus,0x266836AD,0xA50D,0x11D2,0xBA,0x4E,
0x00,0xC0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_Payment,0xCD02F7EF,0xA4FA,0x11D2,0xBA,0x4E,0x00
,0xC0,0x4F,0xBF,0xE0,0x8B);


MIDL_DEFINE_GUID(CLSID,
CLSID_StockLevel,0x2668369E,0xA50D,0x11D2,0xBA,0x4E,0
x00,0xC0,0x4F,0xBF,0xE0,0x8B);

#undef MIDL_DEFINE_GUID

#ifdef __cplusplus
}
#endif



#endif /* defined(_M_IA64) || defined(_M_AMD64)*/
```

tpcc_com_no.rgs

```
HKCR
{
          TPCC.NewOrder.1 = s 'NewOrder Class'
          {
                    CLSID = s '{975BAABF-84A7-11D2-
BA47-00C04FBFE08B}'
          }
          TPCC.NewOrder = s 'NewOrder Class'
          {
                    CurVer = s 'TPCC.NewOrder.1'
          }
          NoRemove CLSID
          {
                    ForceRemove {975BAABF-84A7-11D2-
BA47-00C04FBFE08B} = s 'NewOrder Class'
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                {
                        ProgID = s
'TPCC.NewOrder.1'

        VersionIndependentProgID = s
'TPCC.NewOrder'
                        InprocServer32 = s
'%MODULE%'
                        {
                                val
ThreadingModel = s 'Both'
                        }
                }
        }
}
```

tpcc_com_os.rgs

```
HKCR
{
        TPCC.OrderStatus.1 = s 'OrderStatus Class'
        {
                CLSID = s '{266836AD-A50D-11D2-
BA4E-00C04FBFE08B}'
        }
        TPCC.OrderStatus = s 'OrderStatus Class'
        {
                CurVer = s 'TPCC.OrderStatus.1'
        }
        NoRemove CLSID
        {
                ForceRemove {266836AD-A50D-11D2-
BA4E-00C04FBFE08B} = s 'OrderStatus Class'
                {
                        ProgID = s
'TPCC.OrderStatus.1'

        VersionIndependentProgID = s
'TPCC.OrderStatus'
                        InprocServer32 = s
'%MODULE%'
                        {
                                val
ThreadingModel = s 'Both'
                        }
                }
        }
}
```

tpcc_com_pay.rgs

```
HKCR
{
        TPCC.Payment.1 = s 'Payment Class'
        {
                CLSID = s '{CD02F7EF-A4FA-11D2-
BA4E-00C04FBFE08B}'
        }
        TPCC.Payment = s 'Payment Class'
        {
                CurVer = s 'TPCC.Payment.1'
        }
        NoRemove CLSID
        {
                ForceRemove {CD02F7EF-A4FA-11D2-
BA4E-00C04FBFE08B} = s 'Payment Class'
                {
                        ProgID = s
'TPCC.Payment.1'

        VersionIndependentProgID = s 'TPCC.Payment'
                        InprocServer32 = s
'%MODULE%'
                        {
                                val
ThreadingModel = s 'Both'
                        }
                }
        }
}
```

tpcc_com_ps.h

```
#pragma warning( disable: 4049 )  /* more than 64k
source lines */

/* this ALWAYS GENERATED file contains the
definitions for the interfaces */


 /* File created by MIDL compiler version 6.00.0347
*/
/* at Fri Apr 15 14:48:43 2005
 */
/* Compiler settings for .\src\tpcc_com_ps.idl:
    Oicf, W1, Zp8, env=Win32 (32b run)
    protocol : dce , ms_ext, c_ext
    error checks: allocation ref bounds_check enum
stub_data
    VC __declspec() decoration level:
         __declspec(uuid()), __declspec(selectany),
__declspec(novtable)
         DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )


/* verify that the <rpcndr.h> version is high enough
to compile this file*/
#ifndef __REQUIRED_RPCNDR_H_VERSION__
#define __REQUIRED_RPCNDR_H_VERSION__ 440
#endif
#include "rpc.h"
#include "rpcndr.h"

#ifndef __RPCNDR_H_VERSION__
#error this stub requires an updated version of
<rpcndr.h>
#endif // __RPCNDR_H_VERSION__

#ifndef COM_NO_WINDOWS_H
#include "windows.h"
#include "ole2.h"
#endif /*COM_NO_WINDOWS_H*/

#ifndef __tpcc_com_ps_h__
#define __tpcc_com_ps_h__

#if defined(_MSC_VER) && (_MSC_VER >= 1020)
#pragma once
#endif

/* Forward Declarations */

#ifndef __ITPCC_FWD_DEFINED__
#define __ITPCC_FWD_DEFINED__
typedef interface ITPCC ITPCC;
#endif    /* __ITPCC_FWD_DEFINED__ */


/* header files for imported files */
#include "oaidl.h"
#include "ocidl.h"

#ifdef __cplusplus
extern "C"{
#endif

void * __RPC_USER MIDL_user_allocate(size_t);
void __RPC_USER MIDL_user_free( void * );

/* interface __MIDL_itf_tpcc_com_ps_0000 */
/* [local] */



extern RPC_IF_HANDLE
__MIDL_itf_tpcc_com_ps_0000_v0_0_c_ifspec;
extern RPC_IF_HANDLE
__MIDL_itf_tpcc_com_ps_0000_v0_0_s_ifspec;

#ifndef __ITPCC_INTERFACE_DEFINED__
#define __ITPCC_INTERFACE_DEFINED__

/* interface ITPCC */
/* [unique][helpstring][uuid][oleautomation][object]
*/


EXTERN_C const IID IID_ITPCC;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
#if defined(__cplusplus) && !defined(CINTERFACE)

    MIDL_INTERFACE("FEEE6AA2-84B1-11d2-BA47-
00C04FBFE08B")
    ITPCC : public IUnknown
    {
    public:
        virtual HRESULT __stdcall NewOrder(
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out) = 0;

        virtual HRESULT __stdcall Payment(
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out) = 0;

        virtual HRESULT __stdcall Delivery(
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out) = 0;

        virtual HRESULT __stdcall StockLevel(
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out) = 0;

        virtual HRESULT __stdcall OrderStatus(
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out) = 0;

        virtual HRESULT __stdcall CallSetComplete(
void) = 0;

    };

#else     /* C style interface */

    typedef struct ITPCCVtbl
    {
        BEGIN_INTERFACE

        HRESULT ( STDMETHODCALLTYPE *QueryInterface
)(
            ITPCC * This,
            /* [in] */ REFIID riid,
            /* [iid_is][out] */ void **ppvObject);

        ULONG ( STDMETHODCALLTYPE *AddRef )(
            ITPCC * This);

        ULONG ( STDMETHODCALLTYPE *Release )(
            ITPCC * This);

        HRESULT ( __stdcall *NewOrder )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( __stdcall *Payment )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( __stdcall *Delivery )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( __stdcall *StockLevel )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( __stdcall *OrderStatus )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( __stdcall *CallSetComplete )(
            ITPCC * This);

        END_INTERFACE
    } ITPCCVtbl;

    interface ITPCC
    {
        CONST_VTBL struct ITPCCVtbl *lpVtbl;
    };


#ifdef COBJMACROS


#define ITPCC_QueryInterface(This,riid,ppvObject) \
    (This)->lpVtbl ->
QueryInterface(This,riid,ppvObject)

#define ITPCC_AddRef(This)    \
    (This)->lpVtbl -> AddRef(This)

#define ITPCC_Release(This)   \
    (This)->lpVtbl -> Release(This)


#define ITPCC_NewOrder(This,txn_in,txn_out)       \
    (This)->lpVtbl -> NewOrder(This,txn_in,txn_out)

#define ITPCC_Payment(This,txn_in,txn_out)        \
    (This)->lpVtbl -> Payment(This,txn_in,txn_out)

#define ITPCC_Delivery(This,txn_in,txn_out)       \
    (This)->lpVtbl -> Delivery(This,txn_in,txn_out)

#define ITPCC_StockLevel(This,txn_in,txn_out)     \
    (This)->lpVtbl -> StockLevel(This,txn_in,txn_out)

#define ITPCC_OrderStatus(This,txn_in,txn_out)    \
    (This)->lpVtbl ->
OrderStatus(This,txn_in,txn_out)

#define ITPCC_CallSetComplete(This)     \
    (This)->lpVtbl -> CallSetComplete(This)

#endif /* COBJMACROS */

#endif    /* C style interface */


HRESULT __stdcall ITPCC_NewOrder_Proxy(
    ITPCC * This,
    /* [in] */ VARIANT txn_in,
    /* [out] */ VARIANT *txn_out);


void __RPC_STUB ITPCC_NewOrder_Stub(
    IRpcStubBuffer *This,
    IRpcChannelBuffer *_pRpcChannelBuffer,
    PRPC_MESSAGE _pRpcMessage,
    DWORD *_pdwStubPhase);


HRESULT __stdcall ITPCC_Payment_Proxy(
    ITPCC * This,
    /* [in] */ VARIANT txn_in,
    /* [out] */ VARIANT *txn_out);


void __RPC_STUB ITPCC_Payment_Stub(
    IRpcStubBuffer *This,
    IRpcChannelBuffer *_pRpcChannelBuffer,
    PRPC_MESSAGE _pRpcMessage,
    DWORD *_pdwStubPhase);


HRESULT __stdcall ITPCC_Delivery_Proxy(
    ITPCC * This,
    /* [in] */ VARIANT txn_in,
    /* [out] */ VARIANT *txn_out);


void __RPC_STUB ITPCC_Delivery_Stub(
    IRpcStubBuffer *This,
    IRpcChannelBuffer *_pRpcChannelBuffer,
    PRPC_MESSAGE _pRpcMessage,
    DWORD *_pdwStubPhase);


HRESULT __stdcall ITPCC_StockLevel_Proxy(
    ITPCC * This,
    /* [in] */ VARIANT txn_in,
    /* [out] */ VARIANT *txn_out);


void __RPC_STUB ITPCC_StockLevel_Stub(
    IRpcStubBuffer *This,
    IRpcChannelBuffer *_pRpcChannelBuffer,
    PRPC_MESSAGE _pRpcMessage,
    DWORD *_pdwStubPhase);


HRESULT __stdcall ITPCC_OrderStatus_Proxy(
    ITPCC * This,
    /* [in] */ VARIANT txn_in,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    /* [out] */ VARIANT *txn_out);


void __RPC_STUB ITPCC_OrderStatus_Stub(
    IRpcStubBuffer *This,
    IRpcChannelBuffer *_pRpcChannelBuffer,
    PRPC_MESSAGE _pRpcMessage,
    DWORD *_pdwStubPhase);


HRESULT __stdcall ITPCC_CallSetComplete_Proxy(
    ITPCC * This);


void __RPC_STUB ITPCC_CallSetComplete_Stub(
    IRpcStubBuffer *This,
    IRpcChannelBuffer *_pRpcChannelBuffer,
    PRPC_MESSAGE _pRpcMessage,
    DWORD *_pdwStubPhase);



#endif    /* __ITPCC_INTERFACE_DEFINED__ */


/* Additional Prototypes for ALL interfaces */

unsigned long             __RPC_USER
VARIANT_UserSize(     unsigned long *, unsigned long
, VARIANT * );
unsigned char * __RPC_USER  VARIANT_UserMarshal(
unsigned long *, unsigned char *, VARIANT * );
unsigned char * __RPC_USER
VARIANT_UserUnmarshal(unsigned long *, unsigned char
*, VARIANT * );
void                      __RPC_USER
VARIANT_UserFree(     unsigned long *, VARIANT * );

/* end of Additional Prototypes */

#ifdef __cplusplus
}
#endif

#endif
```

tpcc_com_ps_i.c

```
#pragma warning( disable: 4049 )  /* more than 64k
source lines */

/* this ALWAYS GENERATED file contains the IIDs and
CLSIDs */

/* link this file in with the server and any clients
*/


 /* File created by MIDL compiler version 6.00.0347
*/
/* at Fri Apr 15 14:48:43 2005
 */
/* Compiler settings for .\src\tpcc_com_ps.idl:
    Oicf, W1, Zp8, env=Win32 (32b run)
    protocol : dce , ms_ext, c_ext
    error checks: allocation ref bounds_check enum
stub_data
    VC __declspec() decoration level:
         __declspec(uuid()), __declspec(selectany),
__declspec(novtable)
         DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )

#if !defined(_M_IA64) && !defined(_M_AMD64)

#ifdef __cplusplus
extern "C"{
#endif


#include <rpc.h>
#include <rpcndr.h>

#ifdef _MIDL_USE_GUIDDEF_

#ifndef INITGUID
#define INITGUID
#include <guiddef.h>
#undef INITGUID
#else
#include <guiddef.h>
#endif

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \

DEFINE_GUID(name,l,w1,w2,b1,b2,b3,b4,b5,b6,b7,b8)

#else // !_MIDL_USE_GUIDDEF_

#ifndef __IID_DEFINED__
#define __IID_DEFINED__

typedef struct _IID
{
    unsigned long x;
    unsigned short s1;
    unsigned short s2;
    unsigned char  c[8];
} IID;

#endif // __IID_DEFINED__

#ifndef CLSID_DEFINED
#define CLSID_DEFINED
typedef IID CLSID;
#endif // CLSID_DEFINED

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \
        const type name =
{l,w1,w2,{b1,b2,b3,b4,b5,b6,b7,b8}}

#endif !_MIDL_USE_GUIDDEF_

MIDL_DEFINE_GUID(IID,
IID_ITPCC,0xFEEE6AA2,0x84B1,0x11d2,0xBA,0x47,0x00,0xC
0,0x4F,0xBF,0xE0,0x8B);

#undef MIDL_DEFINE_GUID

#ifdef __cplusplus
}
#endif



#endif /* !defined(_M_IA64) && !defined(_M_AMD64)*/


#pragma warning( disable: 4049 )  /* more than 64k
source lines */

/* this ALWAYS GENERATED file contains the IIDs and
CLSIDs */

/* link this file in with the server and any clients
*/


 /* File created by MIDL compiler version 6.00.0347
*/
/* at Fri Apr 15 14:48:43 2005
 */
/* Compiler settings for .\src\tpcc_com_ps.idl:
    Oicf, W1, Zp8, env=Win64 (32b run,appending)
    protocol : dce , ms_ext, c_ext, robust
    error checks: allocation ref bounds_check enum
stub_data
    VC __declspec() decoration level:
         __declspec(uuid()), __declspec(selectany),
__declspec(novtable)
         DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )

#if defined(_M_IA64) || defined(_M_AMD64)

#ifdef __cplusplus
extern "C"{
#endif
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
#include <rpc.h>
#include <rpcndr.h>

#ifdef _MIDL_USE_GUIDDEF_

#ifndef INITGUID
#define INITGUID
#include <guiddef.h>
#undef INITGUID
#else
#include <guiddef.h>
#endif

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \

DEFINE_GUID(name,l,w1,w2,b1,b2,b3,b4,b5,b6,b7,b8)

#else // !_MIDL_USE_GUIDDEF_

#ifndef __IID_DEFINED__
#define __IID_DEFINED__

typedef struct _IID
{
    unsigned long x;
    unsigned short s1;
    unsigned short s2;
    unsigned char  c[8];
} IID;

#endif // __IID_DEFINED__

#ifndef CLSID_DEFINED
#define CLSID_DEFINED
typedef IID CLSID;
#endif // CLSID_DEFINED

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \
        const type name =
{l,w1,w2,{b1,b2,b3,b4,b5,b6,b7,b8}}

#endif !_MIDL_USE_GUIDDEF_

MIDL_DEFINE_GUID(IID,
IID_ITPCC,0xFEEE6AA2,0x84B1,0x11d2,0xBA,0x47,0x00,0xC
0,0x4F,0xBF,0xE0,0x8B);

#undef MIDL_DEFINE_GUID

#ifdef __cplusplus
}
#endif



#endif /* defined(_M_IA64) || defined(_M_AMD64)*/
```

tpcc_com_ps_p.c

```
#pragma warning( disable: 4049 )  /* more than 64k
source lines */

/* this ALWAYS GENERATED file contains the proxy stub
code */


 /* File created by MIDL compiler version 6.00.0347
*/
/* at Fri Apr 15 14:48:43 2005
 */
/* Compiler settings for .\src\tpcc_com_ps.idl:
    Oicf, W1, Zp8, env=Win32 (32b run)
    protocol : dce , ms_ext, c_ext
    error checks: allocation ref bounds_check enum
stub_data
    VC __declspec() decoration level:
         __declspec(uuid()), __declspec(selectany),
__declspec(novtable)
         DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )

#if !defined(_M_IA64) && !defined(_M_AMD64)
#define USE_STUBLESS_PROXY


/* verify that the <rpcproxy.h> version is high
enough to compile this file*/
#ifndef __REDQ_RPCPROXY_H_VERSION__
#define __REQUIRED_RPCPROXY_H_VERSION__ 440
#endif


#include "rpcproxy.h"
#ifndef __RPCPROXY_H_VERSION__
#error this stub requires an updated version of
<rpcproxy.h>
#endif // __RPCPROXY_H_VERSION__


#include "tpcc_com_ps.h"

#define TYPE_FORMAT_STRING_SIZE   1023
#define PROC_FORMAT_STRING_SIZE   193
#define TRANSMIT_AS_TABLE_SIZE    0
#define WIRE_MARSHAL_TABLE_SIZE   1

typedef struct _MIDL_TYPE_FORMAT_STRING
    {
    short          Pad;
    unsigned char  Format[ TYPE_FORMAT_STRING_SIZE ];
    } MIDL_TYPE_FORMAT_STRING;

typedef struct _MIDL_PROC_FORMAT_STRING
    {
    short          Pad;
    unsigned char  Format[ PROC_FORMAT_STRING_SIZE ];
    } MIDL_PROC_FORMAT_STRING;


static RPC_SYNTAX_IDENTIFIER  _RpcTransferSyntax =
{{0x8A885D04,0x1CEB,0x11C9,{0x9F,0xE8,0x08,0x00,0x2B,
0x10,0x48,0x60}},{2,0}};


extern const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString;


extern const MIDL_STUB_DESC Object_StubDesc;


extern const MIDL_SERVER_INFO ITPCC_ServerInfo;
extern const MIDL_STUBLESS_PROXY_INFO
ITPCC_ProxyInfo;


extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

#if !defined(__RPC_WIN32__)
#error  Invalid build platform for this stub.
#endif

#if !(TARGET_IS_NT40_OR_LATER)
#error You need a Windows NT 4.0 or later to run this
stub because it uses these features:
#error   -Oif or -Oicf, [wire_marshal] or
[user_marshal] attribute.
#error However, your C/C++ compilation flags indicate
you intend to run this app on earlier systems.
#error This app will die there with the
RPC_X_WRONG_STUB_VERSION error.
#endif


static const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString =
    {
        0,
        {

          /* Procedure NewOrder */

                                0x33,               /*
FC_AUTO_HANDLE */
                                0x6c,               /*
Old Flags:  object, Oi2 */
/*  2 */  NdrFcLong( 0x0 ),   /* 0 */
/*  6 */  NdrFcShort( 0x3 ),  /* 3 */
/*  8 */  NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
/* 10 */  NdrFcShort( 0x0 ),  /* 0 */
/* 12 */  NdrFcShort( 0x8 ),  /* 8 */
/* 14 */  0x7,                /* Oi2 Flags:  srv must
size, clt must size, has return, */
                               0x3,                /*
3 */

          /* Parameter txn_in */

/* 16 */  NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 18 */  NdrFcShort( 0x4 ),  /* x86 Stack
size/offset = 4 */
/* 20 */  NdrFcShort( 0x3e2 ),          /* Type
Offset=994 */

          /* Parameter txn_out */

/* 22 */  NdrFcShort( 0x4113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
/* 24 */  NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
/* 26 */  NdrFcShort( 0x3f4 ),          /* Type
Offset=1012 */

          /* Return value */

/* 28 */  NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 30 */  NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
/* 32 */  0x8,                /* FC_LONG */
                               0x0,                /*
0 */

          /* Procedure Payment */

/* 34 */  0x33,               /* FC_AUTO_HANDLE */
                               0x6c,               /*
Old Flags:  object, Oi2 */
/* 36 */  NdrFcLong( 0x0 ),   /* 0 */
/* 40 */  NdrFcShort( 0x4 ),  /* 4 */
/* 42 */  NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
/* 44 */  NdrFcShort( 0x0 ),  /* 0 */
/* 46 */  NdrFcShort( 0x8 ),  /* 8 */
/* 48 */  0x7,                /* Oi2 Flags:  srv must
size, clt must size, has return, */
                               0x3,                /*
3 */

          /* Parameter txn_in */

/* 50 */  NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 52 */  NdrFcShort( 0x4 ),  /* x86 Stack
size/offset = 4 */
/* 54 */  NdrFcShort( 0x3e2 ),          /* Type
Offset=994 */

          /* Parameter txn_out */

/* 56 */  NdrFcShort( 0x4113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
/* 58 */  NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
/* 60 */  NdrFcShort( 0x3f4 ),          /* Type
Offset=1012 */

          /* Return value */

/* 62 */  NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 64 */  NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
/* 66 */  0x8,                /* FC_LONG */
                               0x0,                /*
0 */

          /* Procedure Delivery */

/* 68 */  0x33,               /* FC_AUTO_HANDLE */
                               0x6c,               /*
Old Flags:  object, Oi2 */
/* 70 */  NdrFcLong( 0x0 ),   /* 0 */
/* 74 */  NdrFcShort( 0x5 ),  /* 5 */
/* 76 */  NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
/* 78 */  NdrFcShort( 0x0 ),  /* 0 */
/* 80 */  NdrFcShort( 0x8 ),  /* 8 */
/* 82 */  0x7,                /* Oi2 Flags:  srv must
size, clt must size, has return, */
                               0x3,                /*
3 */

          /* Parameter txn_in */

/* 84 */  NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 86 */  NdrFcShort( 0x4 ),  /* x86 Stack
size/offset = 4 */
/* 88 */  NdrFcShort( 0x3e2 ),          /* Type
Offset=994 */

          /* Parameter txn_out */

/* 90 */  NdrFcShort( 0x4113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
/* 92 */  NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
/* 94 */  NdrFcShort( 0x3f4 ),          /* Type
Offset=1012 */

          /* Return value */

/* 96 */  NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 98 */  NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
/* 100 */ 0x8,                /* FC_LONG */
                               0x0,                /*
0 */

          /* Procedure StockLevel */

/* 102 */ 0x33,               /* FC_AUTO_HANDLE */
                               0x6c,               /*
Old Flags:  object, Oi2 */
/* 104 */ NdrFcLong( 0x0 ),   /* 0 */
/* 108 */ NdrFcShort( 0x6 ),  /* 6 */
/* 110 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
/* 112 */ NdrFcShort( 0x0 ),  /* 0 */
/* 114 */ NdrFcShort( 0x8 ),  /* 8 */
/* 116 */ 0x7,                /* Oi2 Flags:  srv must
size, clt must size, has return, */
                               0x3,                /*
3 */

          /* Parameter txn_in */

/* 118 */ NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 120 */ NdrFcShort( 0x4 ),  /* x86 Stack
size/offset = 4 */
/* 122 */ NdrFcShort( 0x3e2 ),          /* Type
Offset=994 */

          /* Parameter txn_out */

/* 124 */ NdrFcShort( 0x4113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
/* 126 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
/* 128 */ NdrFcShort( 0x3f4 ),          /* Type
Offset=1012 */

          /* Return value */

/* 130 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 132 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
/* 134 */ 0x8,                /* FC_LONG */
                               0x0,                /*
0 */

          /* Procedure OrderStatus */

/* 136 */ 0x33,               /* FC_AUTO_HANDLE */
                               0x6c,               /*
Old Flags:  object, Oi2 */
/* 138 */ NdrFcLong( 0x0 ),   /* 0 */
/* 142 */ NdrFcShort( 0x7 ),  /* 7 */
/* 144 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
/* 146 */ NdrFcShort( 0x0 ),  /* 0 */
/* 148 */ NdrFcShort( 0x8 ),  /* 8 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
/* 150 */ 0x7,                /* Oi2 Flags:  srv must
size, clt must size, has return, */
                           0x3,                /*
3 */

         /* Parameter txn_in */

/* 152 */ NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 154 */ NdrFcShort( 0x4 ),  /* x86 Stack
size/offset = 4 */
/* 156 */ NdrFcShort( 0x3e2 ),          /* Type
Offset=994 */

         /* Parameter txn_out */

/* 158 */ NdrFcShort( 0x4113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
/* 160 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
/* 162 */ NdrFcShort( 0x3f4 ),          /* Type
Offset=1012 */

         /* Return value */

/* 164 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 166 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
/* 168 */ 0x8,                /* FC_LONG */
                           0x0,                /*
0 */

         /* Procedure CallSetComplete */

/* 170 */ 0x33,               /* FC_AUTO_HANDLE */
                           0x6c,               /*
Old Flags:  object, Oi2 */
/* 172 */ NdrFcLong( 0x0 ),   /* 0 */
/* 176 */ NdrFcShort( 0x8 ),  /* 8 */
/* 178 */ NdrFcShort( 0x8 ),  /* x86 Stack
size/offset = 8 */
/* 180 */ NdrFcShort( 0x0 ),  /* 0 */
/* 182 */ NdrFcShort( 0x8 ),  /* 8 */
/* 184 */ 0x4,                /* Oi2 Flags:  has
return, */
                           0x1,                /*
1 */

         /* Return value */

/* 186 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 188 */ NdrFcShort( 0x4 ),  /* x86 Stack
size/offset = 4 */
/* 190 */ 0x8,                /* FC_LONG */
                           0x0,                /*
0 */

                           0x0
        }
    };

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
    {
        0,
        {
                               NdrFcShort( 0x0 ),  /*
0 */
/*  2 */
                               0x12, 0x0,          /*
FC_UP */
/*  4 */  NdrFcShort( 0x3ca ),          /* Offset=
970 (974) */
/*  6 */
                               0x2b,               /*
FC_NON_ENCAPSULATED_UNION */
                               0x9,                /*
FC_ULONG */
/*  8 */  0x7,                /* Corr desc: FC_USHORT
*/
                               0x0,                /*
*/
/* 10 */  NdrFcShort( 0xfff8 ),         /* -8 */
/* 12 */  NdrFcShort( 0x2 ),  /* Offset= 2 (14) */
/* 14 */  NdrFcShort( 0x10 ), /* 16 */
/* 16 */  NdrFcShort( 0x2f ), /* 47 */
/* 18 */  NdrFcLong( 0x14 ),  /* 20 */
/* 22 */  NdrFcShort( 0x800b ),         /* Simple arm
type: FC_HYPER */
/* 24 */  NdrFcLong( 0x3 ),   /* 3 */
/* 28 */  NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 30 */  NdrFcLong( 0x11 ),  /* 17 */
/* 34 */  NdrFcShort( 0x8001 ),         /* Simple arm
type: FC_BYTE */
/* 36 */  NdrFcLong( 0x2 ),   /* 2 */
/* 40 */  NdrFcShort( 0x8006 ),         /* Simple arm
type: FC_SHORT */
/* 42 */  NdrFcLong( 0x4 ),   /* 4 */
/* 46 */  NdrFcShort( 0x800a ),         /* Simple arm
type: FC_FLOAT */
/* 48 */  NdrFcLong( 0x5 ),   /* 5 */
/* 52 */  NdrFcShort( 0x800c ),         /* Simple arm
type: FC_DOUBLE */
/* 54 */  NdrFcLong( 0xb ),   /* 11 */
/* 58 */  NdrFcShort( 0x8006 ),         /* Simple arm
type: FC_SHORT */
/* 60 */  NdrFcLong( 0xa ),   /* 10 */
/* 64 */  NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 66 */  NdrFcLong( 0x6 ),   /* 6 */
/* 70 */  NdrFcShort( 0xe8 ), /* Offset= 232 (302) */
/* 72 */  NdrFcLong( 0x7 ),   /* 7 */
/* 76 */  NdrFcShort( 0x800c ),         /* Simple arm
type: FC_DOUBLE */
/* 78 */  NdrFcLong( 0x8 ),   /* 8 */
/* 82 */  NdrFcShort( 0xe2 ), /* Offset= 226 (308) */
/* 84 */  NdrFcLong( 0xd ),   /* 13 */
/* 88 */  NdrFcShort( 0xf4 ), /* Offset= 244 (332) */
/* 90 */  NdrFcLong( 0x9 ),   /* 9 */
/* 94 */  NdrFcShort( 0x100 ),          /* Offset=
256 (350) */
/* 96 */  NdrFcLong( 0x2000 ),          /* 8192 */
/* 100 */ NdrFcShort( 0x10c ),          /* Offset=
268 (368) */
/* 102 */ NdrFcLong( 0x24 ),  /* 36 */
/* 106 */ NdrFcShort( 0x31a ),          /* Offset=
794 (900) */
/* 108 */ NdrFcLong( 0x4024 ),          /* 16420 */
/* 112 */ NdrFcShort( 0x314 ),          /* Offset=
788 (900) */
/* 114 */ NdrFcLong( 0x4011 ),          /* 16401 */
/* 118 */ NdrFcShort( 0x312 ),          /* Offset=
786 (904) */
/* 120 */ NdrFcLong( 0x4002 ),          /* 16386 */
/* 124 */ NdrFcShort( 0x310 ),          /* Offset=
784 (908) */
/* 126 */ NdrFcLong( 0x4003 ),          /* 16387 */
/* 130 */ NdrFcShort( 0x30e ),          /* Offset=
782 (912) */
/* 132 */ NdrFcLong( 0x4014 ),          /* 16404 */
/* 136 */ NdrFcShort( 0x30c ),          /* Offset=
780 (916) */
/* 138 */ NdrFcLong( 0x4004 ),          /* 16388 */
/* 142 */ NdrFcShort( 0x30a ),          /* Offset=
778 (920) */
/* 144 */ NdrFcLong( 0x4005 ),          /* 16389 */
/* 148 */ NdrFcShort( 0x308 ),          /* Offset=
776 (924) */
/* 150 */ NdrFcLong( 0x400b ),          /* 16395 */
/* 154 */ NdrFcShort( 0x2f2 ),          /* Offset=
754 (908) */
/* 156 */ NdrFcLong( 0x400a ),          /* 16394 */
/* 160 */ NdrFcShort( 0x2f0 ),          /* Offset=
752 (912) */
/* 162 */ NdrFcLong( 0x4006 ),          /* 16390 */
/* 166 */ NdrFcShort( 0x2fa ),          /* Offset=
762 (928) */
/* 168 */ NdrFcLong( 0x4007 ),          /* 16391 */
/* 172 */ NdrFcShort( 0x2f0 ),          /* Offset=
752 (924) */
/* 174 */ NdrFcLong( 0x4008 ),          /* 16392 */
/* 178 */ NdrFcShort( 0x2f2 ),          /* Offset=
754 (932) */
/* 180 */ NdrFcLong( 0x400d ),          /* 16397 */
/* 184 */ NdrFcShort( 0x2f0 ),          /* Offset=
752 (936) */
/* 186 */ NdrFcLong( 0x4009 ),          /* 16393 */
/* 190 */ NdrFcShort( 0x2ee ),          /* Offset=
750 (940) */
/* 192 */ NdrFcLong( 0x6000 ),          /* 24576 */
/* 196 */ NdrFcShort( 0x2ec ),          /* Offset=
748 (944) */
/* 198 */ NdrFcLong( 0x400c ),          /* 16396 */
/* 202 */ NdrFcShort( 0x2ea ),          /* Offset=
746 (948) */
/* 204 */ NdrFcLong( 0x10 ),  /* 16 */
/* 208 */ NdrFcShort( 0x8002 ),         /* Simple arm
type: FC_CHAR */
/* 210 */ NdrFcLong( 0x12 ),  /* 18 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
/* 214 */ NdrFcShort( 0x8006 ),         /* Simple arm
type: FC_SHORT */
/* 216 */ NdrFcLong( 0x13 ),  /* 19 */
/* 220 */ NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 222 */ NdrFcLong( 0x15 ),  /* 21 */
/* 226 */ NdrFcShort( 0x800b ),         /* Simple arm
type: FC_HYPER */
/* 228 */ NdrFcLong( 0x16 ),  /* 22 */
/* 232 */ NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 234 */ NdrFcLong( 0x17 ),  /* 23 */
/* 238 */ NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 240 */ NdrFcLong( 0xe ),   /* 14 */
/* 244 */ NdrFcShort( 0x2c8 ),          /* Offset=
712 (956) */
/* 246 */ NdrFcLong( 0x400e ),          /* 16398 */
/* 250 */ NdrFcShort( 0x2cc ),          /* Offset=
716 (966) */
/* 252 */ NdrFcLong( 0x4010 ),          /* 16400 */
/* 256 */ NdrFcShort( 0x2ca ),          /* Offset=
714 (970) */
/* 258 */ NdrFcLong( 0x4012 ),          /* 16402 */
/* 262 */ NdrFcShort( 0x286 ),          /* Offset=
646 (908) */
/* 264 */ NdrFcLong( 0x4013 ),          /* 16403 */
/* 268 */ NdrFcShort( 0x284 ),          /* Offset=
644 (912) */
/* 270 */ NdrFcLong( 0x4015 ),          /* 16405 */
/* 274 */ NdrFcShort( 0x282 ),          /* Offset=
642 (916) */
/* 276 */ NdrFcLong( 0x4016 ),          /* 16406 */
/* 280 */ NdrFcShort( 0x278 ),          /* Offset=
632 (912) */
/* 282 */ NdrFcLong( 0x4017 ),          /* 16407 */
/* 286 */ NdrFcShort( 0x272 ),          /* Offset=
626 (912) */
/* 288 */ NdrFcLong( 0x0 ),   /* 0 */
/* 292 */ NdrFcShort( 0x0 ),  /* Offset= 0 (292) */
/* 294 */ NdrFcLong( 0x1 ),   /* 1 */
/* 298 */ NdrFcShort( 0x0 ),  /* Offset= 0 (298) */
/* 300 */ NdrFcShort( 0xffffffff ),     /* Offset= -1
(299) */
/* 302 */
                           0x15,                /*
FC_STRUCT */
                           0x7,                 /*
7 */
/* 304 */ NdrFcShort( 0x8 ),  /* 8 */
/* 306 */ 0xb,                /* FC_HYPER */
                           0x5b,                /*
FC_END */
/* 308 */
                           0x12, 0x0,           /*
FC_UP */
/* 310 */ NdrFcShort( 0xc ),  /* Offset= 12 (322) */
/* 312 */
                           0x1b,                /*
FC_CARRAY */
                           0x1,                 /*
1 */
/* 314 */ NdrFcShort( 0x2 ),  /* 2 */
/* 316 */ 0x9,                /* Corr desc: FC_ULONG
*/
                           0x0,                 /*
*/
/* 318 */ NdrFcShort( 0xfffc ),         /* -4 */
/* 320 */ 0x6,                /* FC_SHORT */
                           0x5b,                /*
FC_END */
/* 322 */
                           0x17,                /*
FC_CSTRUCT */
                           0x3,                 /*
3 */
/* 324 */ NdrFcShort( 0x8 ),  /* 8 */
/* 326 */ NdrFcShort( 0xfffffff2 ),     /* Offset= -
14 (312) */
/* 328 */ 0x8,                /* FC_LONG */
                           0x8,                 /*
FC_LONG */
/* 330 */ 0x5c,               /* FC_PAD */
                           0x5b,                /*
FC_END */
/* 332 */
                           0x2f,                /*
FC_IP */
                           0x5a,                /*
FC_CONSTANT_IID */
/* 334 */ NdrFcLong( 0x0 ),   /* 0 */
/* 338 */ NdrFcShort( 0x0 ),  /* 0 */
/* 340 */ NdrFcShort( 0x0 ),  /* 0 */
/* 342 */ 0xc0,               /* 192 */
                           0x0,                 /*
0 */
/* 344 */ 0x0,                /* 0 */
                           0x0,                 /*
0 */
/* 346 */ 0x0,                /* 0 */
                           0x0,                 /*
0 */
/* 348 */ 0x0,                /* 0 */
                           0x46,                /*
70 */
/* 350 */
                           0x2f,                /*
FC_IP */
                           0x5a,                /*
FC_CONSTANT_IID */
/* 352 */ NdrFcLong( 0x20400 ),         /* 132096 */
/* 356 */ NdrFcShort( 0x0 ),  /* 0 */
/* 358 */ NdrFcShort( 0x0 ),  /* 0 */
/* 360 */ 0xc0,               /* 192 */
                           0x0,                 /*
0 */
/* 362 */ 0x0,                /* 0 */
                           0x0,                 /*
0 */
/* 364 */ 0x0,                /* 0 */
                           0x0,                 /*
0 */
/* 366 */ 0x0,                /* 0 */
                           0x46,                /*
70 */
/* 368 */
                           0x12, 0x10,          /*
FC_UP [pointer_deref] */
/* 370 */ NdrFcShort( 0x2 ),  /* Offset= 2 (372) */
/* 372 */
                           0x12, 0x0,           /*
FC_UP */
/* 374 */ NdrFcShort( 0x1fc ),          /* Offset=
508 (882) */
/* 376 */
                           0x2a,                /*
FC_ENCAPSULATED_UNION */
                           0x49,                /*
73 */
/* 378 */ NdrFcShort( 0x18 ), /* 24 */
/* 380 */ NdrFcShort( 0xa ),  /* 10 */
/* 382 */ NdrFcLong( 0x8 ),   /* 8 */
/* 386 */ NdrFcShort( 0x58 ), /* Offset= 88 (474) */
/* 388 */ NdrFcLong( 0xd ),   /* 13 */
/* 392 */ NdrFcShort( 0x78 ), /* Offset= 120 (512) */
/* 394 */ NdrFcLong( 0x9 ),   /* 9 */
/* 398 */ NdrFcShort( 0x94 ), /* Offset= 148 (546) */
/* 400 */ NdrFcLong( 0xc ),   /* 12 */
/* 404 */ NdrFcShort( 0xbc ), /* Offset= 188 (592) */
/* 406 */ NdrFcLong( 0x24 ),  /* 36 */
/* 410 */ NdrFcShort( 0x114 ),          /* Offset=
276 (686) */
/* 412 */ NdrFcLong( 0x800d ),          /* 32781 */
/* 416 */ NdrFcShort( 0x130 ),          /* Offset=
304 (720) */
/* 418 */ NdrFcLong( 0x10 ),  /* 16 */
/* 422 */ NdrFcShort( 0x148 ),          /* Offset=
328 (750) */
/* 424 */ NdrFcLong( 0x2 ),   /* 2 */
/* 428 */ NdrFcShort( 0x160 ),          /* Offset=
352 (780) */
/* 430 */ NdrFcLong( 0x3 ),   /* 3 */
/* 434 */ NdrFcShort( 0x178 ),          /* Offset=
376 (810) */
/* 436 */ NdrFcLong( 0x14 ),  /* 20 */
/* 440 */ NdrFcShort( 0x190 ),          /* Offset=
400 (840) */
/* 442 */ NdrFcShort( 0xffffffff ),     /* Offset= -1
(441) */
/* 444 */
                           0x1b,                /*
FC_CARRAY */
                           0x3,                 /*
3 */
/* 446 */ NdrFcShort( 0x4 ),  /* 4 */
/* 448 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                           0x0,                 /*
*/
/* 450 */ NdrFcShort( 0x0 ),  /* 0 */
/* 452 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                0x4b,                   /*
FC_PP */
                                0x5c,                   /*
FC_PAD */
/* 454 */
                                0x48,                   /*
FC_VARIABLE_REPEAT */
                                0x49,                   /*
FC_FIXED_OFFSET */
/* 456 */ NdrFcShort( 0x4 ),  /* 4 */
/* 458 */ NdrFcShort( 0x0 ),  /* 0 */
/* 460 */ NdrFcShort( 0x1 ),  /* 1 */
/* 462 */ NdrFcShort( 0x0 ),  /* 0 */
/* 464 */ NdrFcShort( 0x0 ),  /* 0 */
/* 466 */ 0x12, 0x0,          /* FC_UP */
/* 468 */ NdrFcShort( 0xffffff6e ),     /* Offset= -
146 (322) */
/* 470 */
                                0x5b,                   /*
FC_END */

                                0x8,                    /*
FC_LONG */
/* 472 */ 0x5c,               /* FC_PAD */
                                0x5b,                   /*
FC_END */
/* 474 */
                                0x16,                   /*
FC_PSTRUCT */
                                0x3,                    /*
3 */
/* 476 */ NdrFcShort( 0x8 ),  /* 8 */
/* 478 */
                                0x4b,                   /*
FC_PP */
                                0x5c,                   /*
FC_PAD */
/* 480 */
                                0x46,                   /*
FC_NO_REPEAT */
                                0x5c,                   /*
FC_PAD */
/* 482 */ NdrFcShort( 0x4 ),  /* 4 */
/* 484 */ NdrFcShort( 0x4 ),  /* 4 */
/* 486 */ 0x11, 0x0,          /* FC_RP */
/* 488 */ NdrFcShort( 0xffffffd4 ),     /* Offset= -
44 (444) */
/* 490 */
                                0x5b,                   /*
FC_END */

                                0x8,                    /*
FC_LONG */
/* 492 */ 0x8,                /* FC_LONG */
                                0x5b,                   /*
FC_END */
/* 494 */
                                0x21,                   /*
FC_BOGUS_ARRAY */
                                0x3,                    /*
3 */
/* 496 */ NdrFcShort( 0x0 ),  /* 0 */
/* 498 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                                0x0,                    /*
*/
/* 500 */ NdrFcShort( 0x0 ),  /* 0 */
/* 502 */ NdrFcLong( 0xffffffff ),      /* -1 */
/* 506 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                                0x0,                    /*
0 */
/* 508 */ NdrFcShort( 0xffffff50 ),     /* Offset= -
176 (332) */
/* 510 */ 0x5c,               /* FC_PAD */
                                0x5b,                   /*
FC_END */
/* 512 */
                                0x1a,                   /*
FC_BOGUS_STRUCT */
                                0x3,                    /*
3 */
/* 514 */ NdrFcShort( 0x8 ),  /* 8 */
/* 516 */ NdrFcShort( 0x0 ),  /* 0 */
/* 518 */ NdrFcShort( 0x6 ),  /* Offset= 6 (524) */
/* 520 */ 0x8,                /* FC_LONG */
                                0x36,                   /*
FC_POINTER */
/* 522 */ 0x5c,               /* FC_PAD */
                                0x5b,                   /*
FC_END */
/* 524 */
                                0x11, 0x0,              /*
FC_RP */
/* 526 */ NdrFcShort( 0xffffffe0 ),     /* Offset= -
32 (494) */
/* 528 */
                                0x21,                   /*
FC_BOGUS_ARRAY */
                                0x3,                    /*
3 */
/* 530 */ NdrFcShort( 0x0 ),  /* 0 */
/* 532 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                                0x0,                    /*
*/
/* 534 */ NdrFcShort( 0x0 ),  /* 0 */
/* 536 */ NdrFcLong( 0xffffffff ),      /* -1 */
/* 540 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                                0x0,                    /*
0 */
/* 542 */ NdrFcShort( 0xffffff40 ),     /* Offset= -
192 (350) */
/* 544 */ 0x5c,               /* FC_PAD */
                                0x5b,                   /*
FC_END */
/* 546 */
                                0x1a,                   /*
FC_BOGUS_STRUCT */
                                0x3,                    /*
3 */
/* 548 */ NdrFcShort( 0x8 ),  /* 8 */
/* 550 */ NdrFcShort( 0x0 ),  /* 0 */
/* 552 */ NdrFcShort( 0x6 ),  /* Offset= 6 (558) */
/* 554 */ 0x8,                /* FC_LONG */
                                0x36,                   /*
FC_POINTER */
/* 556 */ 0x5c,               /* FC_PAD */
                                0x5b,                   /*
FC_END */
/* 558 */
                                0x11, 0x0,              /*
FC_RP */
/* 560 */ NdrFcShort( 0xffffffe0 ),     /* Offset= -
32 (528) */
/* 562 */
                                0x1b,                   /*
FC_CARRAY */
                                0x3,                    /*
3 */
/* 564 */ NdrFcShort( 0x4 ),  /* 4 */
/* 566 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                                0x0,                    /*
*/
/* 568 */ NdrFcShort( 0x0 ),  /* 0 */
/* 570 */
                                0x4b,                   /*
FC_PP */
                                0x5c,                   /*
FC_PAD */
/* 572 */
                                0x48,                   /*
FC_VARIABLE_REPEAT */
                                0x49,                   /*
FC_FIXED_OFFSET */
/* 574 */ NdrFcShort( 0x4 ),  /* 4 */
/* 576 */ NdrFcShort( 0x0 ),  /* 0 */
/* 578 */ NdrFcShort( 0x1 ),  /* 1 */
/* 580 */ NdrFcShort( 0x0 ),  /* 0 */
/* 582 */ NdrFcShort( 0x0 ),  /* 0 */
/* 584 */ 0x12, 0x0,          /* FC_UP */
/* 586 */ NdrFcShort( 0x184 ),          /* Offset=
388 (974) */
/* 588 */
                                0x5b,                   /*
FC_END */

                                0x8,                    /*
FC_LONG */
/* 590 */ 0x5c,               /* FC_PAD */
                                0x5b,                   /*
FC_END */
/* 592 */
                                0x1a,                   /*
FC_BOGUS_STRUCT */
                                0x3,                    /*
3 */
/* 594 */ NdrFcShort( 0x8 ),  /* 8 */
/* 596 */ NdrFcShort( 0x0 ),  /* 0 */
/* 598 */ NdrFcShort( 0x6 ),  /* Offset= 6 (604) */
/* 600 */ 0x8,                /* FC_LONG */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                            0x36,               /*
FC_POINTER */
/* 602 */ 0x5c,             /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 604 */
                            0x11, 0x0,          /*
FC_RP */
/* 606 */ NdrFcShort( 0xfffffd4 ),     /* Offset= -
44 (562) */
/* 608 */
                            0x2f,               /*
FC_IP */
                            0x5a,               /*
FC_CONSTANT_IID */
/* 610 */ NdrFcLong( 0x2f ),  /* 47 */
/* 614 */ NdrFcShort( 0x0 ),  /* 0 */
/* 616 */ NdrFcShort( 0x0 ),  /* 0 */
/* 618 */ 0xc0,               /* 192 */
                            0x0,                /*
0 */
/* 620 */ 0x0,              /* 0 */
                            0x0,                /*
0 */
/* 622 */ 0x0,              /* 0 */
                            0x0,                /*
0 */
/* 624 */ 0x0,              /* 0 */
                            0x46,               /*
70 */
/* 626 */
                            0x1b,               /*
FC_CARRAY */
                            0x0,                /*
0 */
/* 628 */ NdrFcShort( 0x1 ),  /* 1 */
/* 630 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 632 */ NdrFcShort( 0x4 ),  /* 4 */
/* 634 */ 0x1,                /* FC_BYTE */
                            0x5b,               /*
FC_END */
/* 636 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 638 */ NdrFcShort( 0x10 ), /* 16 */
/* 640 */ NdrFcShort( 0x0 ),  /* 0 */
/* 642 */ NdrFcShort( 0xa ),  /* Offset= 10 (652) */
/* 644 */ 0x8,                /* FC_LONG */
                            0x8,                /*
FC_LONG */
/* 646 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 648 */ NdrFcShort( 0xfffffd8 ),     /* Offset= -
40 (608) */
/* 650 */ 0x36,             /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 652 */
                            0x12, 0x0,          /*
FC_UP */
/* 654 */ NdrFcShort( 0xffffffe4 ),     /* Offset= -
28 (626) */
/* 656 */
                            0x1b,               /*
FC_CARRAY */
                            0x3,                /*
3 */
/* 658 */ NdrFcShort( 0x4 ),  /* 4 */
/* 660 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 662 */ NdrFcShort( 0x0 ),  /* 0 */
/* 664 */
                            0x4b,               /*
FC_PP */
                            0x5c,               /*
FC_PAD */
/* 666 */
                            0x48,               /*
FC_VARIABLE_REPEAT */
                            0x49,               /*
FC_FIXED_OFFSET */
/* 668 */ NdrFcShort( 0x4 ),  /* 4 */
/* 670 */ NdrFcShort( 0x0 ),  /* 0 */
/* 672 */ NdrFcShort( 0x1 ),  /* 1 */
/* 674 */ NdrFcShort( 0x0 ),  /* 0 */
/* 676 */ NdrFcShort( 0x0 ),  /* 0 */
/* 678 */ 0x12, 0x0,          /* FC_UP */
/* 680 */ NdrFcShort( 0xfffffd4 ),     /* Offset= -
44 (636) */
/* 682 */
                            0x5b,               /*
FC_END */


                            0x8,                /*
FC_LONG */
/* 684 */ 0x5c,             /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 686 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 688 */ NdrFcShort( 0x8 ),  /* 8 */
/* 690 */ NdrFcShort( 0x0 ),  /* 0 */
/* 692 */ NdrFcShort( 0x6 ),  /* Offset= 6 (698) */
/* 694 */ 0x8,                /* FC_LONG */
                            0x36,               /*
FC_POINTER */
/* 696 */ 0x5c,             /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 698 */
                            0x11, 0x0,          /*
FC_RP */
/* 700 */ NdrFcShort( 0xfffffd4 ),     /* Offset= -
44 (656) */
/* 702 */
                            0x1d,               /*
FC_SMFARRAY */
                            0x0,                /*
0 */
/* 704 */ NdrFcShort( 0x8 ),  /* 8 */
/* 706 */ 0x1,                /* FC_BYTE */
                            0x5b,               /*
FC_END */
/* 708 */
                            0x15,               /*
FC_STRUCT */
                            0x3,                /*
3 */
/* 710 */ NdrFcShort( 0x10 ), /* 16 */
/* 712 */ 0x8,                /* FC_LONG */
                            0x6,                /*
FC_SHORT */
/* 714 */ 0x6,                /* FC_SHORT */
                            0x4c,               /*
FC_EMBEDDED_COMPLEX */
/* 716 */ 0x0,                /* 0 */
                            NdrFcShort( 0xfffffff1
),        /* Offset= -15 (702) */
                            0x5b,               /*
FC_END */
/* 720 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 722 */ NdrFcShort( 0x18 ), /* 24 */
/* 724 */ NdrFcShort( 0x0 ),  /* 0 */
/* 726 */ NdrFcShort( 0xa ),  /* Offset= 10 (736) */
/* 728 */ 0x8,                /* FC_LONG */
                            0x36,               /*
FC_POINTER */
/* 730 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 732 */ NdrFcShort( 0xfffffe8 ),     /* Offset= -
24 (708) */
/* 734 */ 0x5c,             /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 736 */
                            0x11, 0x0,          /*
FC_RP */
/* 738 */ NdrFcShort( 0xffffff0c ),     /* Offset= -
244 (494) */
/* 740 */
                            0x1b,               /*
FC_CARRAY */
                            0x0,                /*
0 */
/* 742 */ NdrFcShort( 0x1 ),  /* 1 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
/* 744 */ 0x19,              /* Corr desc:  field
pointer, FC_ULONG */
                             0x0,                /*
*/
/* 746 */ NdrFcShort( 0x0 ),  /* 0 */
/* 748 */ 0x1,               /* FC_BYTE */
                             0x5b,               /*
FC_END */
/* 750 */
                             0x16,               /*
FC_PSTRUCT */
                             0x3,                /*
3 */
/* 752 */ NdrFcShort( 0x8 ),  /* 8 */
/* 754 */
                             0x4b,               /*
FC_PP */
                             0x5c,               /*
FC_PAD */
/* 756 */
                             0x46,               /*
FC_NO_REPEAT */
                             0x5c,               /*
FC_PAD */
/* 758 */ NdrFcShort( 0x4 ),  /* 4 */
/* 760 */ NdrFcShort( 0x4 ),  /* 4 */
/* 762 */ 0x12, 0x0,          /* FC_UP */
/* 764 */ NdrFcShort( 0xfffffff8 ),     /* Offset= -
24 (740) */
/* 766 */
                             0x5b,               /*
FC_END */

                             0x8,                /*
FC_LONG */
/* 768 */ 0x8,               /* FC_LONG */
                             0x5b,               /*
FC_END */
/* 770 */
                             0x1b,               /*
FC_CARRAY */
                             0x1,                /*
1 */
/* 772 */ NdrFcShort( 0x2 ),  /* 2 */
/* 774 */ 0x19,              /* Corr desc:  field
pointer, FC_ULONG */
                             0x0,                /*
*/
/* 776 */ NdrFcShort( 0x0 ),  /* 0 */
/* 778 */ 0x6,               /* FC_SHORT */
                             0x5b,               /*
FC_END */
/* 780 */
                             0x16,               /*
FC_PSTRUCT */
                             0x3,                /*
3 */
/* 782 */ NdrFcShort( 0x8 ),  /* 8 */
/* 784 */
                             0x4b,               /*
FC_PP */
                             0x5c,               /*
FC_PAD */
/* 786 */
                             0x46,               /*
FC_NO_REPEAT */
                             0x5c,               /*
FC_PAD */
/* 788 */ NdrFcShort( 0x4 ),  /* 4 */
/* 790 */ NdrFcShort( 0x4 ),  /* 4 */
/* 792 */ 0x12, 0x0,          /* FC_UP */
/* 794 */ NdrFcShort( 0xfffffff8 ),     /* Offset= -
24 (770) */
/* 796 */
                             0x5b,               /*
FC_END */

                             0x8,                /*
FC_LONG */
/* 798 */ 0x8,               /* FC_LONG */
                             0x5b,               /*
FC_END */
/* 800 */
                             0x1b,               /*
FC_CARRAY */
                             0x3,                /*
3 */
/* 802 */ NdrFcShort( 0x4 ),  /* 4 */
/* 804 */ 0x19,              /* Corr desc:  field
pointer, FC_ULONG */
                             0x0,                /*
*/
/* 806 */ NdrFcShort( 0x0 ),  /* 0 */
/* 808 */ 0x8,               /* FC_LONG */
                             0x5b,               /*
FC_END */
/* 810 */
                             0x16,               /*
FC_PSTRUCT */
                             0x3,                /*
3 */
/* 812 */ NdrFcShort( 0x8 ),  /* 8 */
/* 814 */
                             0x4b,               /*
FC_PP */
                             0x5c,               /*
FC_PAD */
/* 816 */
                             0x46,               /*
FC_NO_REPEAT */
                             0x5c,               /*
FC_PAD */
/* 818 */ NdrFcShort( 0x4 ),  /* 4 */
/* 820 */ NdrFcShort( 0x4 ),  /* 4 */
/* 822 */ 0x12, 0x0,          /* FC_UP */
/* 824 */ NdrFcShort( 0xfffffff8 ),     /* Offset= -
24 (800) */
/* 826 */
                             0x5b,               /*
FC_END */

                             0x8,                /*
FC_LONG */
/* 828 */ 0x8,               /* FC_LONG */
                             0x5b,               /*
FC_END */
/* 830 */
                             0x1b,               /*
FC_CARRAY */
                             0x7,                /*
7 */
/* 832 */ NdrFcShort( 0x8 ),  /* 8 */
/* 834 */ 0x19,              /* Corr desc:  field
pointer, FC_ULONG */
                             0x0,                /*
*/
/* 836 */ NdrFcShort( 0x0 ),  /* 0 */
/* 838 */ 0xb,               /* FC_HYPER */
                             0x5b,               /*
FC_END */
/* 840 */
                             0x16,               /*
FC_PSTRUCT */
                             0x3,                /*
3 */
/* 842 */ NdrFcShort( 0x8 ),  /* 8 */
/* 844 */
                             0x4b,               /*
FC_PP */
                             0x5c,               /*
FC_PAD */
/* 846 */
                             0x46,               /*
FC_NO_REPEAT */
                             0x5c,               /*
FC_PAD */
/* 848 */ NdrFcShort( 0x4 ),  /* 4 */
/* 850 */ NdrFcShort( 0x4 ),  /* 4 */
/* 852 */ 0x12, 0x0,          /* FC_UP */
/* 854 */ NdrFcShort( 0xfffffff8 ),     /* Offset= -
24 (830) */
/* 856 */
                             0x5b,               /*
FC_END */

                             0x8,                /*
FC_LONG */
/* 858 */ 0x8,               /* FC_LONG */
                             0x5b,               /*
FC_END */
/* 860 */
                             0x15,               /*
FC_STRUCT */
                             0x3,                /*
3 */
/* 862 */ NdrFcShort( 0x8 ),  /* 8 */
/* 864 */ 0x8,               /* FC_LONG */
                             0x8,                /*
FC_LONG */
/* 866 */ 0x5c,              /* FC_PAD */
                             0x5b,               /*
FC_END */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
/* 868 */
                            0x1b,               /*
FC_CARRAY */
                            0x3,                /*
3 */
/* 870 */ NdrFcShort( 0x8 ),  /* 8 */
/* 872 */ 0x7,                /* Corr desc: FC_USHORT
*/
                            0x0,                /*
*/
/* 874 */ NdrFcShort( 0xffd8 ),         /* -40 */
/* 876 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 878 */ NdrFcShort( 0xfffffffe ),     /* Offset= -
18 (860) */
/* 880 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 882 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 884 */ NdrFcShort( 0x28 ), /* 40 */
/* 886 */ NdrFcShort( 0xfffffffe ),     /* Offset= -
18 (868) */
/* 888 */ NdrFcShort( 0x0 ),  /* Offset= 0 (888) */
/* 890 */ 0x6,                /* FC_SHORT */
                            0x6,                /*
FC_SHORT */
/* 892 */ 0x8,                /* FC_LONG */
                            0x8,                /*
FC_LONG */
/* 894 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 896 */ NdrFcShort( 0xfffffdf8 ),     /* Offset= -
520 (376) */
/* 898 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 900 */
                            0x12, 0x0,          /*
FC_UP */
/* 902 */ NdrFcShort( 0xfffffef6 ),     /* Offset= -
266 (636) */
/* 904 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 906 */ 0x1,                /* FC_BYTE */
                            0x5c,               /*
FC_PAD */
/* 908 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 910 */ 0x6,                /* FC_SHORT */
                            0x5c,               /*
FC_PAD */
/* 912 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 914 */ 0x8,                /* FC_LONG */
                            0x5c,               /*
FC_PAD */
/* 916 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 918 */ 0xb,                /* FC_HYPER */
                            0x5c,               /*
FC_PAD */
/* 920 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 922 */ 0xa,                /* FC_FLOAT */
                            0x5c,               /*
FC_PAD */
/* 924 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 926 */ 0xc,                /* FC_DOUBLE */
                            0x5c,               /*
FC_PAD */
/* 928 */
                            0x12, 0x0,          /*
FC_UP */
/* 930 */ NdrFcShort( 0xfffffd8c ),     /* Offset= -
628 (302) */
/* 932 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 934 */ NdrFcShort( 0xfffffd8e ),     /* Offset= -
626 (308) */
/* 936 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 938 */ NdrFcShort( 0xfffffda2 ),     /* Offset= -
606 (332) */
/* 940 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 942 */ NdrFcShort( 0xfffffdb0 ),     /* Offset= -
592 (350) */
/* 944 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 946 */ NdrFcShort( 0xfffffdbe ),     /* Offset= -
578 (368) */
/* 948 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 950 */ NdrFcShort( 0x2 ),  /* Offset= 2 (952) */
/* 952 */
                            0x12, 0x0,          /*
FC_UP */
/* 954 */ NdrFcShort( 0x14 ), /* Offset= 20 (974) */
/* 956 */
                            0x15,               /*
FC_STRUCT */
                            0x7,                /*
7 */
/* 958 */ NdrFcShort( 0x10 ), /* 16 */
/* 960 */ 0x6,                /* FC_SHORT */
                            0x1,                /*
FC_BYTE */
/* 962 */ 0x1,                /* FC_BYTE */
                            0x8,                /*
FC_LONG */
/* 964 */ 0xb,                /* FC_HYPER */
                            0x5b,               /*
FC_END */
/* 966 */
                            0x12, 0x0,          /*
FC_UP */
/* 968 */ NdrFcShort( 0xfffffff4 ),     /* Offset= -
12 (956) */
/* 970 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 972 */ 0x2,                /* FC_CHAR */
                            0x5c,               /*
FC_PAD */
/* 974 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x7,                /*
7 */
/* 976 */ NdrFcShort( 0x20 ), /* 32 */
/* 978 */ NdrFcShort( 0x0 ),  /* 0 */
/* 980 */ NdrFcShort( 0x0 ),  /* Offset= 0 (980) */
/* 982 */ 0x8,                /* FC_LONG */
                            0x8,                /*
FC_LONG */
/* 984 */ 0x6,                /* FC_SHORT */
                            0x6,                /*
FC_SHORT */
/* 986 */ 0x6,                /* FC_SHORT */
                            0x6,                /*
FC_SHORT */
/* 988 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 990 */ NdrFcShort( 0xfffffc28 ),     /* Offset= -
984 (6) */
/* 992 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 994 */ 0xb4,               /* FC_USER_MARSHAL */
                            0x83,               /*
131 */
/* 996 */ NdrFcShort( 0x0 ),  /* 0 */
/* 998 */ NdrFcShort( 0x10 ), /* 16 */
/* 1000 */          NdrFcShort( 0x0 ),  /* 0 */
/* 1002 */          NdrFcShort( 0xfffffc18 ),     /*
Offset= -1000 (2) */
/* 1004 */
                            0x11, 0x4,          /*
FC_RP [alloced_on_stack] */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
/* 1006 */          NdrFcShort( 0x6 ),  /* Offset= 6
(1012) */
/* 1008 */
                                0x13, 0x0,          /*
FC_OP */
/* 1010 */          NdrFcShort( 0xfffffffdc ),     /*
Offset= -36 (974) */
/* 1012 */          0xb4,               /*
FC_USER_MARSHAL */
                                0x83,               /*
131 */
/* 1014 */          NdrFcShort( 0x0 ),  /* 0 */
/* 1016 */          NdrFcShort( 0x10 ), /* 16 */
/* 1018 */          NdrFcShort( 0x0 ),  /* 0 */
/* 1020 */          NdrFcShort( 0xfffffff4 ),     /*
Offset= -12 (1008) */

                                0x0
        }
    };

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
        {

            {
            VARIANT_UserSize
            ,VARIANT_UserMarshal
            ,VARIANT_UserUnmarshal
            ,VARIANT_UserFree
            }

        };



/* Standard interface: __MIDL_itf_tpcc_com_ps_0000,
ver. 0.0,

GUID={0x00000000,0x0000,0x0000,{0x00,0x00,0x00,0x00,0
x00,0x00,0x00,0x00}} */


/* Object interface: IUnknown, ver. 0.0,

GUID={0x00000000,0x0000,0x0000,{0xC0,0x00,0x00,0x00,0
x00,0x00,0x00,0x46}} */


/* Object interface: ITPCC, ver. 0.0,

GUID={0xFEEE6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
    {
    0,
    34,
    68,
    102,
    136,
    170
    };

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
    {
    &Object_StubDesc,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0
    };


static const MIDL_SERVER_INFO ITPCC_ServerInfo =
    {
    &Object_StubDesc,
    0,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0};
CINTERFACE_PROXY_VTABLE(9) _ITPCCProxyVtbl =
{
    &ITPCC_ProxyInfo,
    &IID_ITPCC,
    IUnknown_QueryInterface_Proxy,
    IUnknown_AddRef_Proxy,
    IUnknown_Release_Proxy ,
    (void *) (INT_PTR) -1 /* ITPCC::NewOrder */ ,
    (void *) (INT_PTR) -1 /* ITPCC::Payment */ ,
    (void *) (INT_PTR) -1 /* ITPCC::Delivery */ ,
    (void *) (INT_PTR) -1 /* ITPCC::StockLevel */ ,
    (void *) (INT_PTR) -1 /* ITPCC::OrderStatus */ ,
    (void *) (INT_PTR) -1 /* ITPCC::CallSetComplete
*/
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

static const MIDL_STUB_DESC Object_StubDesc =
    {
    0,
    NdrOleAllocate,
    NdrOleFree,
    0,
    0,
    0,
    0,
    0,
    __MIDL_TypeFormatString.Format,
    1, /* -error bounds_check flag */
    0x20000, /* Ndr library version */
    0,
    0x600015b, /* MIDL Version 6.0.347 */
    0,
    UserMarshalRoutines,
    0,  /* notify & notify_flag routine table */
    0x1, /* MIDL flag */
    0, /* cs routines */
    0,   /* proxy/server info */
    0   /* Reserved5 */
    };

const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    ( CInterfaceProxyVtbl *) &_ITPCCProxyVtbl,
    0
};

const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    ( CInterfaceStubVtbl *) &_ITPCCStubVtbl,
    0
};

PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};


#define _tpcc_com_ps_CHECK_IID(n)
          IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)

int __stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{

    if(!_tpcc_com_ps_CHECK_IID(0))
        {
        *pIndex = 0;
        return 1;
        }

    return 0;
}

const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,
    (PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    (const PCInterfaceName * ) &
_tpcc_com_ps_InterfaceNamesList,
    0, // no delegation
    & _tpcc_com_ps_IID_Lookup,
    1,
    2,
    0, /* table of [async_uuid] interfaces */
    0, /* Filler1 */
    0, /* Filler2 */
    0  /* Filler3 */
};


#endif /* !defined(_M_IA64) && !defined(_M_AMD64)*/


#pragma warning( disable: 4049 )  /* more than 64k
source lines */

/* this ALWAYS GENERATED file contains the proxy stub
code */


 /* File created by MIDL compiler version 6.00.0347
*/
/* at Fri Apr 15 14:48:43 2005
 */
/* Compiler settings for .\src\tpcc_com_ps.idl:
    Oicf, W1, Zp8, env=Win64 (32b run,appending)
    protocol : dce , ms_ext, c_ext, robust
    error checks: allocation ref bounds_check enum
stub_data
    VC __declspec() decoration level:
         __declspec(uuid()), __declspec(selectany),
__declspec(novtable)
         DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING(  )

#if defined(_M_IA64) || defined(_M_AMD64)
#define USE_STUBLESS_PROXY


/* verify that the <rpcproxy.h> version is high
enough to compile this file*/
#ifndef __REDQ_RPCPROXY_H_VERSION__
#define __REQUIRED_RPCPROXY_H_VERSION__ 475
#endif


#include "rpcproxy.h"
#ifndef __RPCPROXY_H_VERSION__
#error this stub requires an updated version of
<rpcproxy.h>
#endif // __RPCPROXY_H_VERSION__


#include "tpcc_com_ps.h"

#define TYPE_FORMAT_STRING_SIZE   1003
#define PROC_FORMAT_STRING_SIZE   253
#define TRANSMIT_AS_TABLE_SIZE    0
#define WIRE_MARSHAL_TABLE_SIZE   1

typedef struct _MIDL_TYPE_FORMAT_STRING
    {
    short          Pad;
    unsigned char  Format[ TYPE_FORMAT_STRING_SIZE ];
    } MIDL_TYPE_FORMAT_STRING;

typedef struct _MIDL_PROC_FORMAT_STRING
    {
    short          Pad;
    unsigned char  Format[ PROC_FORMAT_STRING_SIZE ];
    } MIDL_PROC_FORMAT_STRING;


static RPC_SYNTAX_IDENTIFIER  _RpcTransferSyntax =
{{0x8A885D04,0x1CEB,0x11C9,{0x9F,0xE8,0x08,0x00,0x2B,
0x10,0x48,0x60}},{2,0}};


extern const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString;


extern const MIDL_STUB_DESC Object_StubDesc;


extern const MIDL_SERVER_INFO ITPCC_ServerInfo;
extern const MIDL_STUBLESS_PROXY_INFO
ITPCC_ProxyInfo;


extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

#if !defined(__RPC_WIN64__)
#error  Invalid build platform for this stub.
#endif

static const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString =
    {
        0,
        {

          /* Procedure NewOrder */

                                0x33,               /*
FC_AUTO_HANDLE */
                                0x6c,               /*
Old Flags:  object, Oi2 */
/*  2 */  NdrFcLong( 0x0 ),   /* 0 */
/*  6 */  NdrFcShort( 0x3 ),  /* 3 */
/*  8 */  NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
/* 10 */  NdrFcShort( 0x0 ),  /* 0 */
/* 12 */  NdrFcShort( 0x8 ),  /* 8 */
/* 14 */  0x47,               /* Oi2 Flags:  srv must
size, clt must size, has return, has ext, */
                                0x3,                /*
3 */
/* 16 */  0xa,                /* 10 */
                                0x7,                /*
Ext Flags:  new corr desc, clt corr check, srv corr
check, */
/* 18 */  NdrFcShort( 0x20 ), /* 32 */
/* 20 */  NdrFcShort( 0x20 ), /* 32 */
/* 22 */  NdrFcShort( 0x0 ),  /* 0 */
/* 24 */  NdrFcShort( 0x0 ),  /* 0 */

          /* Parameter txn_in */

/* 26 */  NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 28 */  NdrFcShort( 0x8 ),  /* ia64 Stack
size/offset = 8 */
/* 30 */  NdrFcShort( 0x3ce ),          /* Type
Offset=974 */

          /* Parameter txn_out */

/* 32 */  NdrFcShort( 0x6113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
/* 34 */  NdrFcShort( 0x20 ), /* ia64 Stack
size/offset = 32 */
/* 36 */  NdrFcShort( 0x3e0 ),          /* Type
Offset=992 */

          /* Return value */

/* 38 */  NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 40 */  NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
/* 42 */  0x8,                /* FC_LONG */
                                0x0,                /*
0 */

          /* Procedure Payment */

/* 44 */  0x33,               /* FC_AUTO_HANDLE */
                                0x6c,               /*
Old Flags:  object, Oi2 */
/* 46 */  NdrFcLong( 0x0 ),   /* 0 */
/* 50 */  NdrFcShort( 0x4 ),  /* 4 */
/* 52 */  NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
/* 54 */  NdrFcShort( 0x0 ),  /* 0 */
/* 56 */  NdrFcShort( 0x8 ),  /* 8 */
/* 58 */  0x47,               /* Oi2 Flags:  srv must
size, clt must size, has return, has ext, */
                                0x3,                /*
3 */
/* 60 */  0xa,                /* 10 */
                                0x7,                /*
Ext Flags:  new corr desc, clt corr check, srv corr
check, */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
/* 62 */  NdrFcShort( 0x20 ), /* 32 */
/* 64 */  NdrFcShort( 0x20 ), /* 32 */
/* 66 */  NdrFcShort( 0x0 ),  /* 0 */
/* 68 */  NdrFcShort( 0x0 ),  /* 0 */

          /* Parameter txn_in */

/* 70 */  NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 72 */  NdrFcShort( 0x8 ),  /* ia64 Stack
size/offset = 8 */
/* 74 */  NdrFcShort( 0x3ce ),          /* Type
Offset=974 */

          /* Parameter txn_out */

/* 76 */  NdrFcShort( 0x6113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
/* 78 */  NdrFcShort( 0x20 ), /* ia64 Stack
size/offset = 32 */
/* 80 */  NdrFcShort( 0x3e0 ),          /* Type
Offset=992 */

          /* Return value */

/* 82 */  NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 84 */  NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
/* 86 */  0x8,                /* FC_LONG */
                              0x0,                /*
0 */

          /* Procedure Delivery */

/* 88 */  0x33,               /* FC_AUTO_HANDLE */
                              0x6c,               /*
Old Flags:  object, Oi2 */
/* 90 */  NdrFcLong( 0x0 ),   /* 0 */
/* 94 */  NdrFcShort( 0x5 ),  /* 5 */
/* 96 */  NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
/* 98 */  NdrFcShort( 0x0 ),  /* 0 */
/* 100 */ NdrFcShort( 0x8 ),  /* 8 */
/* 102 */ 0x47,               /* Oi2 Flags:  srv must
size, clt must size, has return, has ext, */
                              0x3,                /*
3 */
/* 104 */ 0xa,                /* 10 */
                              0x7,                /*
Ext Flags:  new corr desc, clt corr check, srv corr
check, */
/* 106 */ NdrFcShort( 0x20 ), /* 32 */
/* 108 */ NdrFcShort( 0x20 ), /* 32 */
/* 110 */ NdrFcShort( 0x0 ),  /* 0 */
/* 112 */ NdrFcShort( 0x0 ),  /* 0 */

          /* Parameter txn_in */

/* 114 */ NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 116 */ NdrFcShort( 0x8 ),  /* ia64 Stack
size/offset = 8 */
/* 118 */ NdrFcShort( 0x3ce ),          /* Type
Offset=974 */

          /* Parameter txn_out */

/* 120 */ NdrFcShort( 0x6113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
/* 122 */ NdrFcShort( 0x20 ), /* ia64 Stack
size/offset = 32 */
/* 124 */ NdrFcShort( 0x3e0 ),          /* Type
Offset=992 */

          /* Return value */

/* 126 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 128 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
/* 130 */ 0x8,                /* FC_LONG */
                              0x0,                /*
0 */

          /* Procedure StockLevel */

/* 132 */ 0x33,               /* FC_AUTO_HANDLE */
                              0x6c,               /*
Old Flags:  object, Oi2 */
/* 134 */ NdrFcLong( 0x0 ),   /* 0 */
/* 138 */ NdrFcShort( 0x6 ),  /* 6 */
/* 140 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
/* 142 */ NdrFcShort( 0x0 ),  /* 0 */
/* 144 */ NdrFcShort( 0x8 ),  /* 8 */
/* 146 */ 0x47,               /* Oi2 Flags:  srv must
size, clt must size, has return, has ext, */
                              0x3,                /*
3 */
/* 148 */ 0xa,                /* 10 */
                              0x7,                /*
Ext Flags:  new corr desc, clt corr check, srv corr
check, */
/* 150 */ NdrFcShort( 0x20 ), /* 32 */
/* 152 */ NdrFcShort( 0x20 ), /* 32 */
/* 154 */ NdrFcShort( 0x0 ),  /* 0 */
/* 156 */ NdrFcShort( 0x0 ),  /* 0 */

          /* Parameter txn_in */

/* 158 */ NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 160 */ NdrFcShort( 0x8 ),  /* ia64 Stack
size/offset = 8 */
/* 162 */ NdrFcShort( 0x3ce ),          /* Type
Offset=974 */

          /* Parameter txn_out */

/* 164 */ NdrFcShort( 0x6113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
/* 166 */ NdrFcShort( 0x20 ), /* ia64 Stack
size/offset = 32 */
/* 168 */ NdrFcShort( 0x3e0 ),          /* Type
Offset=992 */

          /* Return value */

/* 170 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 172 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
/* 174 */ 0x8,                /* FC_LONG */
                              0x0,                /*
0 */

          /* Procedure OrderStatus */

/* 176 */ 0x33,               /* FC_AUTO_HANDLE */
                              0x6c,               /*
Old Flags:  object, Oi2 */
/* 178 */ NdrFcLong( 0x0 ),   /* 0 */
/* 182 */ NdrFcShort( 0x7 ),  /* 7 */
/* 184 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
/* 186 */ NdrFcShort( 0x0 ),  /* 0 */
/* 188 */ NdrFcShort( 0x8 ),  /* 8 */
/* 190 */ 0x47,               /* Oi2 Flags:  srv must
size, clt must size, has return, has ext, */
                              0x3,                /*
3 */
/* 192 */ 0xa,                /* 10 */
                              0x7,                /*
Ext Flags:  new corr desc, clt corr check, srv corr
check, */
/* 194 */ NdrFcShort( 0x20 ), /* 32 */
/* 196 */ NdrFcShort( 0x20 ), /* 32 */
/* 198 */ NdrFcShort( 0x0 ),  /* 0 */
/* 200 */ NdrFcShort( 0x0 ),  /* 0 */

          /* Parameter txn_in */

/* 202 */ NdrFcShort( 0x8b ), /* Flags:  must size,
must free, in, by val, */
/* 204 */ NdrFcShort( 0x8 ),  /* ia64 Stack
size/offset = 8 */
/* 206 */ NdrFcShort( 0x3ce ),          /* Type
Offset=974 */

          /* Parameter txn_out */

/* 208 */ NdrFcShort( 0x6113 ),         /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
/* 210 */ NdrFcShort( 0x20 ), /* ia64 Stack
size/offset = 32 */
/* 212 */ NdrFcShort( 0x3e0 ),          /* Type
Offset=992 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        /* Return value */

/* 214 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 216 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
/* 218 */ 0x8,                /* FC_LONG */
                              0x0,                /*
0 */

        /* Procedure CallSetComplete */

/* 220 */ 0x33,               /* FC_AUTO_HANDLE */
                              0x6c,               /*
Old Flags:  object, Oi2 */
/* 222 */ NdrFcLong( 0x0 ),   /* 0 */
/* 226 */ NdrFcShort( 0x8 ),  /* 8 */
/* 228 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
/* 230 */ NdrFcShort( 0x0 ),  /* 0 */
/* 232 */ NdrFcShort( 0x8 ),  /* 8 */
/* 234 */ 0x44,               /* Oi2 Flags:  has
return, has ext, */
                              0x1,                /*
1 */
/* 236 */ 0xa,                /* 10 */
                              0x1,                /*
Ext Flags:  new corr desc, */
/* 238 */ NdrFcShort( 0x0 ),  /* 0 */
/* 240 */ NdrFcShort( 0x0 ),  /* 0 */
/* 242 */ NdrFcShort( 0x0 ),  /* 0 */
/* 244 */ NdrFcShort( 0x0 ),  /* 0 */

        /* Return value */

/* 246 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
/* 248 */ NdrFcShort( 0x8 ),  /* ia64 Stack
size/offset = 8 */
/* 250 */ 0x8,                /* FC_LONG */
                              0x0,                /*
0 */

                              0x0
        }
    };

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
    {
        0,
        {
                              NdrFcShort( 0x0 ),  /*
0 */
/*  2 */
                              0x12, 0x0,          /*
FC_UP */
/*  4 */  NdrFcShort( 0x3b6 ),          /* Offset=
950 (954) */
/*  6 */
                              0x2b,               /*
FC_NON_ENCAPSULATED_UNION */
                              0x9,                /*
FC_ULONG */
/*  8 */  0x7,                /* Corr desc: FC_USHORT
*/
                              0x0,                /*
*/
/* 10 */  NdrFcShort( 0xfff8 ),         /* -8 */
/* 12 */  NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 14 */  NdrFcShort( 0x2 ),  /* Offset= 2 (16) */
/* 16 */  NdrFcShort( 0x10 ), /* 16 */
/* 18 */  NdrFcShort( 0x2f ), /* 47 */
/* 20 */  NdrFcLong( 0x14 ),  /* 20 */
/* 24 */  NdrFcShort( 0x800b ),         /* Simple arm
type: FC_HYPER */
/* 26 */  NdrFcLong( 0x3 ),   /* 3 */
/* 30 */  NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 32 */  NdrFcLong( 0x11 ),  /* 17 */
/* 36 */  NdrFcShort( 0x8001 ),         /* Simple arm
type: FC_BYTE */
/* 38 */  NdrFcLong( 0x2 ),   /* 2 */
/* 42 */  NdrFcShort( 0x8006 ),         /* Simple arm
type: FC_SHORT */
/* 44 */  NdrFcLong( 0x4 ),   /* 4 */
/* 48 */  NdrFcShort( 0x800a ),         /* Simple arm
type: FC_FLOAT */
/* 50 */  NdrFcLong( 0x5 ),   /* 5 */
/* 54 */  NdrFcShort( 0x800c ),         /* Simple arm
type: FC_DOUBLE */
/* 56 */  NdrFcLong( 0xb ),   /* 11 */
/* 60 */  NdrFcShort( 0x8006 ),         /* Simple arm
type: FC_SHORT */
/* 62 */  NdrFcLong( 0xa ),   /* 10 */
/* 66 */  NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 68 */  NdrFcLong( 0x6 ),   /* 6 */
/* 72 */  NdrFcShort( 0xe8 ), /* Offset= 232 (304) */
/* 74 */  NdrFcLong( 0x7 ),   /* 7 */
/* 78 */  NdrFcShort( 0x800c ),         /* Simple arm
type: FC_DOUBLE */
/* 80 */  NdrFcLong( 0x8 ),   /* 8 */
/* 84 */  NdrFcShort( 0xe2 ), /* Offset= 226 (310) */
/* 86 */  NdrFcLong( 0xd ),   /* 13 */
/* 90 */  NdrFcShort( 0xf6 ), /* Offset= 246 (336) */
/* 92 */  NdrFcLong( 0x9 ),   /* 9 */
/* 96 */  NdrFcShort( 0x102 ),          /* Offset=
258 (354) */
/* 98 */  NdrFcLong( 0x2000 ),          /* 8192 */
/* 102 */ NdrFcShort( 0x10e ),          /* Offset=
270 (372) */
/* 104 */ NdrFcLong( 0x24 ),  /* 36 */
/* 108 */ NdrFcShort( 0x304 ),          /* Offset=
772 (880) */
/* 110 */ NdrFcLong( 0x4024 ),          /* 16420 */
/* 114 */ NdrFcShort( 0x2fe ),          /* Offset=
766 (880) */
/* 116 */ NdrFcLong( 0x4011 ),          /* 16401 */
/* 120 */ NdrFcShort( 0x2fc ),          /* Offset=
764 (884) */
/* 122 */ NdrFcLong( 0x4002 ),          /* 16386 */
/* 126 */ NdrFcShort( 0x2fa ),          /* Offset=
762 (888) */
/* 128 */ NdrFcLong( 0x4003 ),          /* 16387 */
/* 132 */ NdrFcShort( 0x2f8 ),          /* Offset=
760 (892) */
/* 134 */ NdrFcLong( 0x4014 ),          /* 16404 */
/* 138 */ NdrFcShort( 0x2f6 ),          /* Offset=
758 (896) */
/* 140 */ NdrFcLong( 0x4004 ),          /* 16388 */
/* 144 */ NdrFcShort( 0x2f4 ),          /* Offset=
756 (900) */
/* 146 */ NdrFcLong( 0x4005 ),          /* 16389 */
/* 150 */ NdrFcShort( 0x2f2 ),          /* Offset=
754 (904) */
/* 152 */ NdrFcLong( 0x400b ),          /* 16395 */
/* 156 */ NdrFcShort( 0x2dc ),          /* Offset=
732 (888) */
/* 158 */ NdrFcLong( 0x400a ),          /* 16394 */
/* 162 */ NdrFcShort( 0x2da ),          /* Offset=
730 (892) */
/* 164 */ NdrFcLong( 0x4006 ),          /* 16390 */
/* 168 */ NdrFcShort( 0x2e4 ),          /* Offset=
740 (908) */
/* 170 */ NdrFcLong( 0x4007 ),          /* 16391 */
/* 174 */ NdrFcShort( 0x2da ),          /* Offset=
730 (904) */
/* 176 */ NdrFcLong( 0x4008 ),          /* 16392 */
/* 180 */ NdrFcShort( 0x2dc ),          /* Offset=
732 (912) */
/* 182 */ NdrFcLong( 0x400d ),          /* 16397 */
/* 186 */ NdrFcShort( 0x2da ),          /* Offset=
730 (916) */
/* 188 */ NdrFcLong( 0x4009 ),          /* 16393 */
/* 192 */ NdrFcShort( 0x2d8 ),          /* Offset=
728 (920) */
/* 194 */ NdrFcLong( 0x6000 ),          /* 24576 */
/* 198 */ NdrFcShort( 0x2d6 ),          /* Offset=
726 (924) */
/* 200 */ NdrFcLong( 0x400c ),          /* 16396 */
/* 204 */ NdrFcShort( 0x2d4 ),          /* Offset=
724 (928) */
/* 206 */ NdrFcLong( 0x10 ),  /* 16 */
/* 210 */ NdrFcShort( 0x8002 ),         /* Simple arm
type: FC_CHAR */
/* 212 */ NdrFcLong( 0x12 ),  /* 18 */
/* 216 */ NdrFcShort( 0x8006 ),         /* Simple arm
type: FC_SHORT */
/* 218 */ NdrFcLong( 0x13 ),  /* 19 */
/* 222 */ NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 224 */ NdrFcLong( 0x15 ),  /* 21 */
/* 228 */ NdrFcShort( 0x800b ),         /* Simple arm
type: FC_HYPER */
/* 230 */ NdrFcLong( 0x16 ),  /* 22 */
/* 234 */ NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 236 */ NdrFcLong( 0x17 ),  /* 23 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
/* 240 */ NdrFcShort( 0x8008 ),         /* Simple arm
type: FC_LONG */
/* 242 */ NdrFcLong( 0xe ),   /* 14 */
/* 246 */ NdrFcShort( 0x2b2 ),          /* Offset=
690 (936) */
/* 248 */ NdrFcLong( 0x400e ),          /* 16398 */
/* 252 */ NdrFcShort( 0x2b6 ),          /* Offset=
694 (946) */
/* 254 */ NdrFcLong( 0x4010 ),          /* 16400 */
/* 258 */ NdrFcShort( 0x2b4 ),          /* Offset=
692 (950) */
/* 260 */ NdrFcLong( 0x4012 ),          /* 16402 */
/* 264 */ NdrFcShort( 0x270 ),          /* Offset=
624 (888) */
/* 266 */ NdrFcLong( 0x4013 ),          /* 16403 */
/* 270 */ NdrFcShort( 0x26e ),          /* Offset=
622 (892) */
/* 272 */ NdrFcLong( 0x4015 ),          /* 16405 */
/* 276 */ NdrFcShort( 0x26c ),          /* Offset=
620 (896) */
/* 278 */ NdrFcLong( 0x4016 ),          /* 16406 */
/* 282 */ NdrFcShort( 0x262 ),          /* Offset=
610 (892) */
/* 284 */ NdrFcLong( 0x4017 ),          /* 16407 */
/* 288 */ NdrFcShort( 0x25c ),          /* Offset=
604 (892) */
/* 290 */ NdrFcLong( 0x0 ),   /* 0 */
/* 294 */ NdrFcShort( 0x0 ),  /* Offset= 0 (294) */
/* 296 */ NdrFcLong( 0x1 ),   /* 1 */
/* 300 */ NdrFcShort( 0x0 ),  /* Offset= 0 (300) */
/* 302 */ NdrFcShort( 0xffffffff ),     /* Offset= -1
(301) */
/* 304 */
                            0x15,               /*
FC_STRUCT */
                            0x7,                /*
7 */
/* 306 */ NdrFcShort( 0x8 ),  /* 8 */
/* 308 */ 0xb,                /* FC_HYPER */
                            0x5b,               /*
FC_END */
/* 310 */
                            0x12, 0x0,          /*
FC_UP */
/* 312 */ NdrFcShort( 0xe ),  /* Offset= 14 (326) */
/* 314 */
                            0x1b,               /*
FC_CARRAY */
                            0x1,                /*
1 */
/* 316 */ NdrFcShort( 0x2 ),  /* 2 */
/* 318 */ 0x9,                /* Corr desc: FC_ULONG
*/
                            0x0,                /*
*/
/* 320 */ NdrFcShort( 0xfffc ),         /* -4 */
/* 322 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 324 */ 0x6,                /* FC_SHORT */
                            0x5b,               /*
FC_END */
/* 326 */
                            0x17,               /*
FC_CSTRUCT */
                            0x3,                /*
3 */
/* 328 */ NdrFcShort( 0x8 ),  /* 8 */
/* 330 */ NdrFcShort( 0xfffffff0 ),     /* Offset= -
16 (314) */
/* 332 */ 0x8,                /* FC_LONG */
                            0x8,                /*
FC_LONG */
/* 334 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 336 */
                            0x2f,               /*
FC_IP */
                            0x5a,               /*
FC_CONSTANT_IID */
/* 338 */ NdrFcLong( 0x0 ),   /* 0 */
/* 342 */ NdrFcShort( 0x0 ),  /* 0 */
/* 344 */ NdrFcShort( 0x0 ),  /* 0 */
/* 346 */ 0xc0,               /* 192 */
                            0x0,                /*
0 */
/* 348 */ 0x0,                /* 0 */
                            0x0,                /*
0 */
/* 350 */ 0x0,                /* 0 */
                            0x0,                /*
0 */
/* 352 */ 0x0,                /* 0 */
                            0x46,               /*
70 */
/* 354 */
                            0x2f,               /*
FC_IP */
                            0x5a,               /*
FC_CONSTANT_IID */
/* 356 */ NdrFcLong( 0x20400 ),         /* 132096 */
/* 360 */ NdrFcShort( 0x0 ),  /* 0 */
/* 362 */ NdrFcShort( 0x0 ),  /* 0 */
/* 364 */ 0xc0,               /* 192 */
                            0x0,                /*
0 */
/* 366 */ 0x0,                /* 0 */
                            0x0,                /*
0 */
/* 368 */ 0x0,                /* 0 */
                            0x0,                /*
0 */
/* 370 */ 0x0,                /* 0 */
                            0x46,               /*
70 */
/* 372 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 374 */ NdrFcShort( 0x2 ),  /* Offset= 2 (376) */
/* 376 */
                            0x12, 0x0,          /*
FC_UP */
/* 378 */ NdrFcShort( 0x1e4 ),          /* Offset=
484 (862) */
/* 380 */
                            0x2a,               /*
FC_ENCAPSULATED_UNION */
                            0x89,               /*
137 */
/* 382 */ NdrFcShort( 0x20 ), /* 32 */
/* 384 */ NdrFcShort( 0xa ),  /* 10 */
/* 386 */ NdrFcLong( 0x8 ),   /* 8 */
/* 390 */ NdrFcShort( 0x50 ), /* Offset= 80 (470) */
/* 392 */ NdrFcLong( 0xd ),   /* 13 */
/* 396 */ NdrFcShort( 0x70 ), /* Offset= 112 (508) */
/* 398 */ NdrFcLong( 0x9 ),   /* 9 */
/* 402 */ NdrFcShort( 0x90 ), /* Offset= 144 (546) */
/* 404 */ NdrFcLong( 0xc ),   /* 12 */
/* 408 */ NdrFcShort( 0xb0 ), /* Offset= 176 (584) */
/* 410 */ NdrFcLong( 0x24 ),  /* 36 */
/* 414 */ NdrFcShort( 0x102 ),          /* Offset=
258 (672) */
/* 416 */ NdrFcLong( 0x800d ),          /* 32781 */
/* 420 */ NdrFcShort( 0x11e ),          /* Offset=
286 (706) */
/* 422 */ NdrFcLong( 0x10 ),  /* 16 */
/* 426 */ NdrFcShort( 0x138 ),          /* Offset=
312 (738) */
/* 428 */ NdrFcLong( 0x2 ),   /* 2 */
/* 432 */ NdrFcShort( 0x14e ),          /* Offset=
334 (766) */
/* 434 */ NdrFcLong( 0x3 ),   /* 3 */
/* 438 */ NdrFcShort( 0x164 ),          /* Offset=
356 (794) */
/* 440 */ NdrFcLong( 0x14 ),  /* 20 */
/* 444 */ NdrFcShort( 0x17a ),          /* Offset=
378 (822) */
/* 446 */ NdrFcShort( 0xffffffff ),     /* Offset= -1
(445) */
/* 448 */
                            0x21,               /*
FC_BOGUS_ARRAY */
                            0x3,                /*
3 */
/* 450 */ NdrFcShort( 0x0 ),  /* 0 */
/* 452 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 454 */ NdrFcShort( 0x0 ),  /* 0 */
/* 456 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 458 */ NdrFcLong( 0xffffffff ),      /* -1 */
/* 462 */ NdrFcShort( 0x0 ),  /* Corr flags:  */
/* 464 */
                            0x12, 0x0,          /*
FC_UP */
/* 466 */ NdrFcShort( 0xffffff74 ),     /* Offset= -
140 (326) */
/* 468 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 470 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 472 */ NdrFcShort( 0x10 ), /* 16 */
/* 474 */ NdrFcShort( 0x0 ),  /* 0 */
/* 476 */ NdrFcShort( 0x6 ),  /* Offset= 6 (482) */
/* 478 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 480 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 482 */
                            0x11, 0x0,          /*
FC_RP */
/* 484 */ NdrFcShort( 0xffffffdc ),     /* Offset= -
36 (448) */
/* 486 */
                            0x21,               /*
FC_BOGUS_ARRAY */
                            0x3,                /*
3 */
/* 488 */ NdrFcShort( 0x0 ),  /* 0 */
/* 490 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 492 */ NdrFcShort( 0x0 ),  /* 0 */
/* 494 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 496 */ NdrFcLong( 0xffffffff ),      /* -1 */
/* 500 */ NdrFcShort( 0x0 ),  /* Corr flags:  */
/* 502 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 504 */ NdrFcShort( 0xffffff58 ),     /* Offset= -
168 (336) */
/* 506 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 508 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 510 */ NdrFcShort( 0x10 ), /* 16 */
/* 512 */ NdrFcShort( 0x0 ),  /* 0 */
/* 514 */ NdrFcShort( 0x6 ),  /* Offset= 6 (520) */
/* 516 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 518 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 520 */
                            0x11, 0x0,          /*
FC_RP */
/* 522 */ NdrFcShort( 0xffffffdc ),     /* Offset= -
36 (486) */
/* 524 */
                            0x21,               /*
FC_BOGUS_ARRAY */
                            0x3,                /*
3 */
/* 526 */ NdrFcShort( 0x0 ),  /* 0 */
/* 528 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 530 */ NdrFcShort( 0x0 ),  /* 0 */
/* 532 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 534 */ NdrFcLong( 0xffffffff ),      /* -1 */
/* 538 */ NdrFcShort( 0x0 ),  /* Corr flags:  */
/* 540 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 542 */ NdrFcShort( 0xffffff44 ),     /* Offset= -
188 (354) */
/* 544 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 546 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 548 */ NdrFcShort( 0x10 ), /* 16 */
/* 550 */ NdrFcShort( 0x0 ),  /* 0 */
/* 552 */ NdrFcShort( 0x6 ),  /* Offset= 6 (558) */
/* 554 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 556 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 558 */
                            0x11, 0x0,          /*
FC_RP */
/* 560 */ NdrFcShort( 0xffffffdc ),     /* Offset= -
36 (524) */
/* 562 */
                            0x21,               /*
FC_BOGUS_ARRAY */
                            0x3,                /*
3 */
/* 564 */ NdrFcShort( 0x0 ),  /* 0 */
/* 566 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 568 */ NdrFcShort( 0x0 ),  /* 0 */
/* 570 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 572 */ NdrFcLong( 0xffffffff ),      /* -1 */
/* 576 */ NdrFcShort( 0x0 ),  /* Corr flags:  */
/* 578 */
                            0x12, 0x0,          /*
FC_UP */
/* 580 */ NdrFcShort( 0x176 ),          /* Offset=
374 (954) */
/* 582 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 584 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 586 */ NdrFcShort( 0x10 ), /* 16 */
/* 588 */ NdrFcShort( 0x0 ),  /* 0 */
/* 590 */ NdrFcShort( 0x6 ),  /* Offset= 6 (596) */
/* 592 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 594 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 596 */
                            0x11, 0x0,          /*
FC_RP */
/* 598 */ NdrFcShort( 0xffffffdc ),     /* Offset= -
36 (562) */
/* 600 */
                            0x2f,               /*
FC_IP */
                            0x5a,               /*
FC_CONSTANT_IID */
/* 602 */ NdrFcLong( 0x2f ),  /* 47 */
/* 606 */ NdrFcShort( 0x0 ),  /* 0 */
/* 608 */ NdrFcShort( 0x0 ),  /* 0 */
/* 610 */ 0xc0,               /* 192 */
                            0x0,                /*
0 */
/* 612 */ 0x0,                /* 0 */
                            0x0,                /*
0 */
/* 614 */ 0x0,                /* 0 */
                            0x0,                /*
0 */
/* 616 */ 0x0,                /* 0 */
                            0x46,               /*
70 */
/* 618 */
                            0x1b,               /*
FC_CARRAY */
                            0x0,                /*
0 */
/* 620 */ NdrFcShort( 0x1 ),  /* 1 */
/* 622 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 624 */ NdrFcShort( 0x4 ),  /* 4 */
/* 626 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 628 */ 0x1,                /* FC_BYTE */
                            0x5b,               /*
FC_END */
/* 630 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 632 */ NdrFcShort( 0x18 ), /* 24 */
/* 634 */ NdrFcShort( 0x0 ),  /* 0 */
/* 636 */ NdrFcShort( 0xa ),  /* Offset= 10 (646) */
/* 638 */ 0x8,                /* FC_LONG */
                            0x8,                /*
FC_LONG */
/* 640 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 642 */ NdrFcShort( 0xffffffd6 ),     /* Offset= -
42 (600) */
/* 644 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 646 */
                            0x12, 0x0,          /*
FC_UP */
/* 648 */ NdrFcShort( 0xfffffffe2 ),     /* Offset= -
30 (618) */
/* 650 */
                            0x21,               /*
FC_BOGUS_ARRAY */
                            0x3,                /*
3 */
/* 652 */ NdrFcShort( 0x0 ),  /* 0 */
/* 654 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 656 */ NdrFcShort( 0x0 ),  /* 0 */
/* 658 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 660 */ NdrFcLong( 0xffffffff ),      /* -1 */
/* 664 */ NdrFcShort( 0x0 ),  /* Corr flags:  */
/* 666 */
                            0x12, 0x0,          /*
FC_UP */
/* 668 */ NdrFcShort( 0xffffffda ),     /* Offset= -
38 (630) */
/* 670 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 672 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 674 */ NdrFcShort( 0x10 ), /* 16 */
/* 676 */ NdrFcShort( 0x0 ),  /* 0 */
/* 678 */ NdrFcShort( 0x6 ),  /* Offset= 6 (684) */
/* 680 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 682 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 684 */
                            0x11, 0x0,          /*
FC_RP */
/* 686 */ NdrFcShort( 0xffffffdc ),     /* Offset= -
36 (650) */
/* 688 */
                            0x1d,               /*
FC_SMFARRAY */
                            0x0,                /*
0 */
/* 690 */ NdrFcShort( 0x8 ),  /* 8 */
/* 692 */ 0x1,                /* FC_BYTE */
                            0x5b,               /*
FC_END */
/* 694 */
                            0x15,               /*
FC_STRUCT */
                            0x3,                /*
3 */
/* 696 */ NdrFcShort( 0x10 ), /* 16 */
/* 698 */ 0x8,                /* FC_LONG */
                            0x6,                /*
FC_SHORT */
/* 700 */ 0x6,                /* FC_SHORT */
                            0x4c,               /*
FC_EMBEDDED_COMPLEX */
/* 702 */ 0x0,                /* 0 */
                            NdrFcShort( 0xfffffff1
),        /* Offset= -15 (688) */
                            0x5b,               /*
FC_END */
/* 706 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 708 */ NdrFcShort( 0x20 ), /* 32 */
/* 710 */ NdrFcShort( 0x0 ),  /* 0 */
/* 712 */ NdrFcShort( 0xa ),  /* Offset= 10 (722) */
/* 714 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 716 */ 0x36,               /* FC_POINTER */
                            0x4c,               /*
FC_EMBEDDED_COMPLEX */
/* 718 */ 0x0,                /* 0 */
                            NdrFcShort( 0xfffffffe7
),        /* Offset= -25 (694) */
                            0x5b,               /*
FC_END */
/* 722 */
                            0x11, 0x0,          /*
FC_RP */
/* 724 */ NdrFcShort( 0xffffff12 ),     /* Offset= -
238 (486) */
/* 726 */
                            0x1b,               /*
FC_CARRAY */
                            0x0,                /*
0 */
/* 728 */ NdrFcShort( 0x1 ),  /* 1 */
/* 730 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 732 */ NdrFcShort( 0x0 ),  /* 0 */
/* 734 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 736 */ 0x1,                /* FC_BYTE */
                            0x5b,               /*
FC_END */
/* 738 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 740 */ NdrFcShort( 0x10 ), /* 16 */
/* 742 */ NdrFcShort( 0x0 ),  /* 0 */
/* 744 */ NdrFcShort( 0x6 ),  /* Offset= 6 (750) */
/* 746 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 748 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 750 */
                            0x12, 0x0,          /*
FC_UP */
/* 752 */ NdrFcShort( 0xfffffffe6 ),     /* Offset= -
26 (726) */
/* 754 */
                            0x1b,               /*
FC_CARRAY */
                            0x1,                /*
1 */
/* 756 */ NdrFcShort( 0x2 ),  /* 2 */
/* 758 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 760 */ NdrFcShort( 0x0 ),  /* 0 */
/* 762 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 764 */ 0x6,                /* FC_SHORT */
                            0x5b,               /*
FC_END */
/* 766 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 768 */ NdrFcShort( 0x10 ), /* 16 */
/* 770 */ NdrFcShort( 0x0 ),  /* 0 */
/* 772 */ NdrFcShort( 0x6 ),  /* Offset= 6 (778) */
/* 774 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 776 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 778 */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                            0x12, 0x0,          /*
FC_UP */
/* 780 */ NdrFcShort( 0xfffffffe6 ),     /* Offset= -
26 (754) */
/* 782 */
                            0x1b,               /*
FC_CARRAY */
                            0x3,                /*
3 */
/* 784 */ NdrFcShort( 0x4 ),  /* 4 */
/* 786 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 788 */ NdrFcShort( 0x0 ),  /* 0 */
/* 790 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 792 */ 0x8,                /* FC_LONG */
                            0x5b,               /*
FC_END */
/* 794 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 796 */ NdrFcShort( 0x10 ), /* 16 */
/* 798 */ NdrFcShort( 0x0 ),  /* 0 */
/* 800 */ NdrFcShort( 0x6 ),  /* Offset= 6 (806) */
/* 802 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 804 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 806 */
                            0x12, 0x0,          /*
FC_UP */
/* 808 */ NdrFcShort( 0xfffffffe6 ),     /* Offset= -
26 (782) */
/* 810 */
                            0x1b,               /*
FC_CARRAY */
                            0x7,                /*
7 */
/* 812 */ NdrFcShort( 0x8 ),  /* 8 */
/* 814 */ 0x19,               /* Corr desc:  field
pointer, FC_ULONG */
                            0x0,                /*
*/
/* 816 */ NdrFcShort( 0x0 ),  /* 0 */
/* 818 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 820 */ 0xb,                /* FC_HYPER */
                            0x5b,               /*
FC_END */
/* 822 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 824 */ NdrFcShort( 0x10 ), /* 16 */
/* 826 */ NdrFcShort( 0x0 ),  /* 0 */
/* 828 */ NdrFcShort( 0x6 ),  /* Offset= 6 (834) */
/* 830 */ 0x8,                /* FC_LONG */
                            0x40,               /*
FC_STRUCTPAD4 */
/* 832 */ 0x36,               /* FC_POINTER */
                            0x5b,               /*
FC_END */
/* 834 */
                            0x12, 0x0,          /*
FC_UP */
/* 836 */ NdrFcShort( 0xfffffffe6 ),     /* Offset= -
26 (810) */
/* 838 */
                            0x15,               /*
FC_STRUCT */
                            0x3,                /*
3 */
/* 840 */ NdrFcShort( 0x8 ),  /* 8 */
/* 842 */ 0x8,                /* FC_LONG */
                            0x8,                /*
FC_LONG */
/* 844 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 846 */
                            0x1b,               /*
FC_CARRAY */
                            0x3,                /*
3 */
/* 848 */ NdrFcShort( 0x8 ),  /* 8 */
/* 850 */ 0x7,                /* Corr desc: FC_USHORT
*/
                            0x0,                /*
*/
/* 852 */ NdrFcShort( 0xffc8 ),          /* -56 */
/* 854 */ NdrFcShort( 0x1 ),  /* Corr flags:  early,
*/
/* 856 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 858 */ NdrFcShort( 0xffffffec ),      /* Offset= -
20 (838) */
/* 860 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 862 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x3,                /*
3 */
/* 864 */ NdrFcShort( 0x38 ), /* 56 */
/* 866 */ NdrFcShort( 0xffffffec ),      /* Offset= -
20 (846) */
/* 868 */ NdrFcShort( 0x0 ),  /* Offset= 0 (868) */
/* 870 */ 0x6,                /* FC_SHORT */
                            0x6,                /*
FC_SHORT */
/* 872 */ 0x8,                /* FC_LONG */
                            0x8,                /*
FC_LONG */
/* 874 */ 0x40,               /* FC_STRUCTPAD4 */
                            0x4c,               /*
FC_EMBEDDED_COMPLEX */
/* 876 */ 0x0,                /* 0 */
                            NdrFcShort( 0xfffffe0f
),        /* Offset= -497 (380) */
                            0x5b,               /*
FC_END */
/* 880 */
                            0x12, 0x0,          /*
FC_UP */
/* 882 */ NdrFcShort( 0xffffff04 ),      /* Offset= -
252 (630) */
/* 884 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 886 */ 0x1,                /* FC_BYTE */
                            0x5c,               /*
FC_PAD */
/* 888 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 890 */ 0x6,                /* FC_SHORT */
                            0x5c,               /*
FC_PAD */
/* 892 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 894 */ 0x8,                /* FC_LONG */
                            0x5c,               /*
FC_PAD */
/* 896 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 898 */ 0xb,                /* FC_HYPER */
                            0x5c,               /*
FC_PAD */
/* 900 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 902 */ 0xa,                /* FC_FLOAT */
                            0x5c,               /*
FC_PAD */
/* 904 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 906 */ 0xc,                /* FC_DOUBLE */
                            0x5c,               /*
FC_PAD */
/* 908 */
                            0x12, 0x0,          /*
FC_UP */
/* 910 */ NdrFcShort( 0xfffffda2 ),      /* Offset= -
606 (304) */
/* 912 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 914 */ NdrFcShort( 0xfffffda4 ),      /* Offset= -
604 (310) */
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
/* 916 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 918 */ NdrFcShort( 0xfffffdba ),     /* Offset= -
582 (336) */
/* 920 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 922 */ NdrFcShort( 0xfffffdc8 ),     /* Offset= -
568 (354) */
/* 924 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 926 */ NdrFcShort( 0xfffffdd6 ),     /* Offset= -
554 (372) */
/* 928 */
                            0x12, 0x10,         /*
FC_UP [pointer_deref] */
/* 930 */ NdrFcShort( 0x2 ),  /* Offset= 2 (932) */
/* 932 */
                            0x12, 0x0,          /*
FC_UP */
/* 934 */ NdrFcShort( 0x14 ), /* Offset= 20 (954) */
/* 936 */
                            0x15,               /*
FC_STRUCT */
                            0x7,                /*
7 */
/* 938 */ NdrFcShort( 0x10 ), /* 16 */
/* 940 */ 0x6,                /* FC_SHORT */
                            0x1,                /*
FC_BYTE */
/* 942 */ 0x1,                /* FC_BYTE */
                            0x8,                /*
FC_LONG */
/* 944 */ 0xb,                /* FC_HYPER */
                            0x5b,               /*
FC_END */
/* 946 */
                            0x12, 0x0,          /*
FC_UP */
/* 948 */ NdrFcShort( 0xffffffe4 ),     /* Offset= -
12 (936) */
/* 950 */
                            0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 952 */ 0x2,                /* FC_CHAR */
                            0x5c,               /*
FC_PAD */
/* 954 */
                            0x1a,               /*
FC_BOGUS_STRUCT */
                            0x7,                /*
7 */
/* 956 */ NdrFcShort( 0x20 ), /* 32 */
/* 958 */ NdrFcShort( 0x0 ),  /* 0 */
/* 960 */ NdrFcShort( 0x0 ),  /* Offset= 0 (960) */
/* 962 */ 0x8,                /* FC_LONG */
                            0x8,                /*
FC_LONG */
/* 964 */ 0x6,                /* FC_SHORT */
                            0x6,                /*
FC_SHORT */
/* 966 */ 0x6,                /* FC_SHORT */
                            0x6,                /*
FC_SHORT */
/* 968 */ 0x4c,               /* FC_EMBEDDED_COMPLEX
*/
                            0x0,                /*
0 */
/* 970 */ NdrFcShort( 0xffffffc3c ),    /* Offset= -
964 (6) */
/* 972 */ 0x5c,               /* FC_PAD */
                            0x5b,               /*
FC_END */
/* 974 */ 0xb4,               /* FC_USER_MARSHAL */
                            0x83,               /*
131 */
/* 976 */ NdrFcShort( 0x0 ),  /* 0 */
/* 978 */ NdrFcShort( 0x18 ), /* 24 */
/* 980 */ NdrFcShort( 0x0 ),  /* 0 */
/* 982 */ NdrFcShort( 0xffffffc2c ),    /* Offset= -
980 (2) */
/* 984 */
                            0x11, 0x4,          /*
FC_RP [alloced_on_stack] */
/* 986 */ NdrFcShort( 0x6 ),  /* Offset= 6 (992) */
/* 988 */
                            0x13, 0x0,          /*
FC_OP */
/* 990 */ NdrFcShort( 0xffffffdc ),     /* Offset= -
36 (954) */
/* 992 */ 0xb4,               /* FC_USER_MARSHAL */
                            0x83,               /*
131 */
/* 994 */ NdrFcShort( 0x0 ),  /* 0 */
/* 996 */ NdrFcShort( 0x18 ), /* 24 */
/* 998 */ NdrFcShort( 0x0 ),  /* 0 */
/* 1000 */          NdrFcShort( 0xffffffe4 ),    /*
Offset= -12 (988) */

                            0x0
        }
    };

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
        {

            {
            VARIANT_UserSize
            ,VARIANT_UserMarshal
            ,VARIANT_UserUnmarshal
            ,VARIANT_UserFree
            }

        };



/* Standard interface: __MIDL_itf_tpcc_com_ps_0000,
ver. 0.0,
GUID={0x00000000,0x0000,0x0000,{0x00,0x00,0x00,0x00,0
x00,0x00,0x00,0x00}} */


/* Object interface: IUnknown, ver. 0.0,

GUID={0x00000000,0x0000,0x0000,{0xC0,0x00,0x00,0x00,0
x00,0x00,0x00,0x46}} */


/* Object interface: ITPCC, ver. 0.0,

GUID={0xFEEE6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
    {
    0,
    44,
    88,
    132,
    176,
    220
    };

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
    {
    &Object_StubDesc,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0
    };


static const MIDL_SERVER_INFO ITPCC_ServerInfo =
    {
    &Object_StubDesc,
    0,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0};
CINTERFACE_PROXY_VTABLE(9) _ITPCCProxyVtbl =
{
    &ITPCC_ProxyInfo,
    &IID_ITPCC,
    IUnknown_QueryInterface_Proxy,
    IUnknown_AddRef_Proxy,
    IUnknown_Release_Proxy ,
    (void *) (INT_PTR) -1 /* ITPCC::NewOrder */ ,
    (void *) (INT_PTR) -1 /* ITPCC::Payment */ ,
    (void *) (INT_PTR) -1 /* ITPCC::Delivery */ ,
    (void *) (INT_PTR) -1 /* ITPCC::StockLevel */ ,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    (void *) (INT_PTR) -1 /* ITPCC::OrderStatus */ ,
    (void *) (INT_PTR) -1 /* ITPCC::CallSetComplete
*/
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

static const MIDL_STUB_DESC Object_StubDesc =
    {
    0,
    NdrOleAllocate,
    NdrOleFree,
    0,
    0,
    0,
    0,
    0,
    __MIDL_TypeFormatString.Format,
    1, /* -error bounds_check flag */
    0x50002, /* Ndr library version */
    0,
    0x600015b, /* MIDL Version 6.0.347 */
    0,
    UserMarshalRoutines,
    0,  /* notify & notify_flag routine table */
    0x1, /* MIDL flag */
    0, /* cs routines */
    0,   /* proxy/server info */
    0   /* Reserved5 */
    };

const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    ( CInterfaceProxyVtbl *) &_ITPCCProxyVtbl,
    0
};

const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    ( CInterfaceStubVtbl *) &_ITPCCStubVtbl,
    0
};

PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};

#define _tpcc_com_ps_CHECK_IID(n)
          IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)

int __stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{

    if(!_tpcc_com_ps_CHECK_IID(0))
        {
        *pIndex = 0;
        return 1;
        }

    return 0;
}

const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,
    (PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
    (const PCInterfaceName * ) &
_tpcc_com_ps_InterfaceNamesList,
    0, // no delegation
    & _tpcc_com_ps_IID_Lookup,
    1,
    2,
    0, /* table of [async_uuid] interfaces */
    0, /* Filler1 */
    0, /* Filler2 */
    0  /* Filler3 */
};


#endif /* defined(_M_IA64) || defined(_M_AMD64)*/
```

tpcc_com_sl.rgs

```
HKCR
{
          TPCC.StockLevel.1 = s 'StockLevel Class'
          {
                    CLSID = s '{2668369E-A50D-11D2-
BA4E-00C04FBFE08B}'
          }
          TPCC.StockLevel = s 'StockLevel Class'
          {
                    CurVer = s 'TPCC.StockLevel.1'
          }
          NoRemove CLSID
          {
                    ForceRemove {2668369E-A50D-11D2-
BA4E-00C04FBFE08B} = s 'StockLevel Class'
                    {
                              ProgID = s
'TPCC.StockLevel.1'

          VersionIndependentProgID = s
'TPCC.StockLevel'
                              InprocServer32 = s
'%MODULE%'
                              {
                                        val
ThreadingModel = s 'Both'
                              }
                    }
          }
}
```

tpcc_dblib.cpp

```
/*        FILE:                   TPCC_DBLIB.CPP
 *                                          Microsoft
TPC-C Kit Ver. 4.42.000
 *                                          Copyright
Microsoft, 2002
 *              All Rights Reserved
 *
 *                                          Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Implements dblib calls for TPC-C
txns.
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                  4.42.000 - changed w_id fields
from short to long to support >32K warehouses
 *                  4.20.000 - updated rev number to
match kit
 *                  4.10.001 - not deleting error
class in catch handler on deadlock retry;
 *                                              not a
functional bug, but a memory leak
 *                                               - had to
tweak some declarations to compile with latest SDK;
no functional change
 */

#include <windows.h>
#include <stdio.h>
#include <assert.h>

#define DBNTWIN32
#include <sqlfront.h>
#include <sqldb.h>

#ifdef ICECAP
#include <icapexp.h>
#endif
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
// need to declare functions for export
#define DllDecl  __declspec( dllexport )

#include "..\..\common\src\error.h"
#include "..\..\common\src\trans.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_dblib.h"

#define   DEFCLPACKSIZE
          4096

// version string; must match return value from
tpcc_version stored proc
const char          sVersion[] = "4.20.000";

const                         iMaxRetries = 10;
          // how many retries on deadlock
static    long      iConnectionCount = 0;  // number
of current dblib connections

const int iErrOleDbProvider = 7312;
const char sErrTimeoutExpired[] = "Timeout expired";

BOOL APIENTRY DllMain(HMODULE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{
          switch( ul_reason_for_call )
          {
                    case DLL_PROCESS_ATTACH:

          DisableThreadLibraryCalls(hModule);
                              dbinit();           //
initialize dblib
                              break;

                    case DLL_PROCESS_DETACH:
                              dbexit();           //
close all dblib structures/connections
                              break;

                    default:
                              /* nothing */;
          }
          return TRUE;
}


int err_handler(DBPROCESS *dbproc, int severity, int
dberr, int oserr, LPCSTR dberrstr, LPCSTR oserrstr)
{
          CTPCC_DBLIB
          *pConn;

          assert(dbproc != NULL);
          pConn =
(CTPCC_DBLIB*)dbgetuserdata(dbproc);

          if (pConn != NULL)
          {
                    pConn->SetDbLibError( severity,
dberr, oserr, dberrstr, oserrstr );
          }
          return INT_CANCEL;
}

/* FUNCTION: int msg_handler(DBPROCESS *dbproc, DBINT
msgno, int msgstate, int severity, char *msgtext)
 *
 * PURPOSE:         This function handles DB-Library
SQL Server error messages
 *
 * ARGUMENTS:       DBPROCESS           *dbproc
                    DBPROCESS id pointer
 *                                      DBINT
                    msgno
          message number
 *                                      int
                                  msgstate
          message state
 *                                      int
                                  severity
          message severity
 *                                      char
                    *msgtext            printable
message description
 *
 * RETURNS:                 int
                    INT_CONTINUE        continue if
error is SQLETIME else INT_CANCEL action
 *                                  INT_CANCEL
          cancel operation
 *
 * COMMENTS:        This function also sets the dead
lock dbproc variable if necessary.
 *
 */

// typedef INT (SQLAPI *DBMSGHANDLE_PROC)(PDBPROCESS,
DBINT, INT, INT, LPCSTR, LPCSTR, LPCSTR,
DBUSMALLINT);

int msg_handler(DBPROCESS *dbproc, DBINT msgno, int
msgstate, int severity,
                                                LPCSTR
msgtext, LPCSTR srvname, LPCSTR procname, DBUSMALLINT
line)
{
          CTPCC_DBLIB
          *pConn;

          assert(dbproc != NULL);
          pConn =
(CTPCC_DBLIB*)dbgetuserdata(dbproc);

          if (pConn != NULL)
          {
                    pConn->SetSqlError( msgno,
msgstate, severity, msgtext );
          }

          return 0;
}

/* FUNCTION: void UtilStrCpy(char * pDest, char *
pSrc, int n)
 *
 * PURPOSE:         This function copies n characters
from string pSrc to pDst and places a
 *                                  null character at the
end of the destination string.
 *
 * ARGUMENTS:       char
          *pDest    destination string pointer
 *                                        char
                    *pSrc     source string pointer
 *                                  int
                              n
          number of characters to copy
 *
 * RETURNS:                 None
 *
 * COMMENTS:        Unlike strncpy this function
ensures that the result string is
 *                                  always null
terminated.
 *
 */

inline static void UtilStrCpy(char * pDest, const
BYTE * pSrc, int n)
{
    strncpy(pDest, (char *)pSrc, n);
    pDest[n] = '\0';

          return;
}

/* FUNCTION: CTPCC_DBLIB_ERR::ErrorText
 *
 */

char* CTPCC_DBLIB_ERR::ErrorText(void)
{
          int i;

          static SERRORMSG errorMsgs[] =
          {
                    { ERR_WRONG_SP_VERSION,
          "Wrong version of stored procs on database
server"   },
                    { ERR_INVALID_CUST,
          "Invalid Customer id,name."
                                                        },
                    { ERR_NO_SUCH_ORDER,
          "No orders found for customer."
                                                        },
                    { ERR_RETRIED_TRANS,
          "Retries before transaction succeeded."
                              },
                    { 0,
                              ""
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        }
        };

        static char szNotFound[] = "Unknown error
number.";

        for(i=0; errorMsgs[i].szMsg[0]; i++)
        {
                if ( m_errno ==
errorMsgs[i].iError )
                        break;
        }
        if ( !errorMsgs[i].szMsg[0] )
                return szNotFound;
        else
                return errorMsgs[i].szMsg;
}

// wrapper routine for class constructor
__declspec(dllexport) CTPCC_DBLIB* CTPCC_DBLIB_new(
        LPCSTR szServer,              // name of
SQL server
        LPCSTR szUser,                          //
user name for login
        LPCSTR szPassword,            // password
for login
        LPCSTR szHost,                          //
workstation name; shows up in sp_who; max 30 chars,
only first 10 kept by SQL Server
        LPCSTR szDatabase )           // name of
database to use
{
        return new CTPCC_DBLIB( szServer, szUser,
szPassword, szHost, szDatabase );
}


CTPCC_DBLIB::CTPCC_DBLIB (
        LPCSTR szServer,              // name of
SQL server
        LPCSTR szUser,                          //
user name for login
        LPCSTR szPassword,            // password
for login
        LPCSTR szHost,                          //
workstation name; shows up in sp_who; max 30 chars,
only first 10 kept by SQL Server
        LPCSTR szDatabase )           // name of
database to use
{
        LOGINREC  *login;
        const BYTE          *pData;

        // initialization
        m_dbproc = NULL;
        m_DbLibErr = (CDBLIBERR*)NULL;
        m_SqlErr = (CSQLERR*)NULL;

        m_MaxRetries = 10;            // how many
retries on deadlock

        // increase max number of connections if
getting close
        if ( dbgetmaxprocs() < (iConnectionCount+5)
)
        {
                if (
dbsetmaxprocs(iConnectionCount+10) == FAIL )

        ThrowError(CDBLIBERR::eDbSetMaxProcs);
        }

        // allocate a login structure
        login = dblogin();
        if (login == NULL)
                ThrowError(CDBLIBERR::eLogin);
        InterlockedIncrement( &iConnectionCount );

        // register error and message handler
functions
        if (dbprocerrhandle(login, err_handler) ==
NULL)

        ThrowError(CDBLIBERR::eDbProcHandler);

        if (dbprocmsghandle(login, msg_handler) ==
NULL)

        ThrowError(CDBLIBERR::eDbProcHandler);


        DBSETLUSER(login, szUser);
        DBSETLPWD(login, szPassword);
        DBSETLHOST(login, szHost);
        DBSETLPACKET(login, (unsigned
short)DEFCLPACKSIZE);
        DBSETLVERSION(login, DBVER60);
        // use dblib ver 6.0 client behavior

        // set time to wait for login
        if (dbsetlogintime(60) == FAIL)
                ThrowError(CDBLIBERR::eDbSet);

        // set time to wait for statement execution
        if (dbsettime(180) == FAIL)
                ThrowError(CDBLIBERR::eDbSet);

        m_dbproc = dbopen(login, szServer);

        // deallocate login structure before
checking for success
        dbfreelogin( login );

        if (m_dbproc == NULL)
                ThrowError(CDBLIBERR::eDbOpen);

        // save address of class instance so that
the message and error handler
        // can get to data.
        dbsetuserdata(m_dbproc, (LPVOID)this);

        // Use the the right database
        if (dbuse(m_dbproc, szDatabase) == FAIL)
                ThrowError(CDBLIBERR::eDbUse);

        dbcmd(m_dbproc, "set nocount on ");
                // do not return row counts
        dbcmd(m_dbproc, "set XACT_ABORT ON");
        // rollback transaction on abort

        if (dbsqlexec(m_dbproc) == FAIL)

        ThrowError(CDBLIBERR::eDbSqlExec);

        DiscardNextResults(2);

        // verify that version of stored procs on
server is correct
        dbrpcinit(m_dbproc, "tpcc_version", 0);

        if (dbrpcexec(m_dbproc) == FAIL)

        ThrowError(CDBLIBERR::eDbRpcExec);

        if (dbresults(m_dbproc) != SUCCEED)

        ThrowError(CDBLIBERR::eDbResults);

        if (dbnextrow(m_dbproc) != REG_ROW)

        ThrowError(CDBLIBERR::eDbNextRow);

        char szSrvVersion[16];
        pData=dbdata(m_dbproc, 1);
        if (pData)
                UtilStrCpy(szSrvVersion, pData,
dbdatlen(m_dbproc, 1));
        else
                szSrvVersion[0]=0;
        if (strcmp(szSrvVersion,sVersion))
                throw new CTPCC_DBLIB_ERR(
CTPCC_DBLIB_ERR::ERR_WRONG_SP_VERSION );


        DiscardNextRows(0);
        DiscardNextResults(0);
}


CTPCC_DBLIB::~CTPCC_DBLIB( void )
{
        // close db connection and deallocate
resources
        dbclose(m_dbproc);
        InterlockedDecrement( &iConnectionCount );
        if (m_DbLibErr != NULL)
                delete m_DbLibErr;
        if (m_SqlErr != NULL)
                delete m_SqlErr;
}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
void CTPCC_DBLIB::SetDbLibError(int severity, int
dberr, int oserr, LPCSTR dberrstr, LPCSTR oserrstr)
{
          delete m_DbLibErr;
          m_DbLibErr = new
CDBLIBERR(CDBLIBERR::eUnknown, severity, dberr,
oserr);

          if (dberrstr != NULL)
          {
                    m_DbLibErr->m_dberrstr = new
char[ strlen(dberrstr)+1 ];
                    strcpy( m_DbLibErr->m_dberrstr,
dberrstr );
          }

          if (oserrstr != NULL)
          {
                    m_DbLibErr->m_oserrstr = new
char[ strlen(oserrstr)+1 ];
                    strcpy( m_DbLibErr->m_oserrstr,
oserrstr );
          }

}

void CTPCC_DBLIB::SetSqlError( int /*DBINT*/ msgno,
int msgstate, int severity, LPCSTR msgtext )
{
          if (m_SqlErr == NULL)
                    m_SqlErr = new CSQLERR();

          m_SqlErr->m_msgno = msgno;
          m_SqlErr->m_msgstate = msgstate;
          m_SqlErr->m_severity = severity;

          delete [] m_SqlErr->m_msgtext;
          if (msgtext != NULL)
          {
                    m_SqlErr->m_msgtext = new char[
strlen(msgtext)+1 ];
                    strcpy( m_SqlErr->m_msgtext,
msgtext );
          }
}

void CTPCC_DBLIB::ThrowError( CDBLIBERR::ACTION
eAction )
{
          // discard anything still in return buffer
          DiscardNextRows(-1);
          DiscardNextResults(-1);

          // check for SQL Server error first;  if
yes, throw it and ignore any DBLib error.
          if (m_SqlErr != NULL)
          {
                    CSQLERR             *pSqlErr;
                    pSqlErr = m_SqlErr;
                    m_SqlErr = NULL;    // clear our
pointer to instance; catch handler will delete
                    throw pSqlErr;
          }

          CDBLIBERR *pDbLibErr;
          if (m_DbLibErr == NULL)
                    // this case isn't expected to
happen, since it means that an error was returned
                    // but the error handlers were
not called.
                    pDbLibErr = new
CDBLIBERR(eAction);
          else
          {
                    pDbLibErr = m_DbLibErr;
                    pDbLibErr->m_eAction = eAction;
                    m_DbLibErr = NULL;           //
clear our pointer to instance; catch handler will
delete
          }

          throw pDbLibErr;
}

// Read and discard rows until no more.  Throw an
exception if number of rows read doesn't
// match number of rows expected.  The row count will
be ignored if the expected count value
// passed in is negative.  A typical use of this
routine is to verify that there are no more
// rows to be read.
void CTPCC_DBLIB::DiscardNextRows(int iExpectedCount)
{
          int                 iRowsRead = 0;
          RETCODE   rc;

          while (TRUE)
          {
                    rc = dbnextrow(m_dbproc);
                    if (rc == NO_MORE_ROWS)
                              break;
                    if (rc == FAIL)
                    {
                              if (iExpectedCount >=
0)

          ThrowError(CDBLIBERR::eDbNextRow);
                              else
                                        break;
                    }
                    iRowsRead++;
          }

          if ((iExpectedCount >= 0) &&
                    (iExpectedCount != iRowsRead))

          ThrowError(CDBLIBERR::eWrongRowCount);
}

// Read and discard results until no more.  Throw an
exception if number of result sets read doesn't
// match number expected.  The result set count will
be ignored if the expected count value
// passed in is negative.  A typical use of this
routine is to verify that there are no more
// result sets to be read.
void CTPCC_DBLIB::DiscardNextResults(int
iExpectedCount)
{
          int                 iResultsRead = 0;
          RETCODE   rc;

          while (TRUE)
          {
                    rc = dbresults(m_dbproc);
                    if (rc == NO_MORE_RESULTS)
                              break;
                    if (rc == FAIL)
                    {
                              if (iExpectedCount >=
0)

          ThrowError(CDBLIBERR::eDbResults);
                              else
                                        break;
                    }

                    DiscardNextRows(-1);
                    iResultsRead++;
          }

          if ((iExpectedCount >= 0) &&
                    (iExpectedCount != iResultsRead))

          ThrowError(CDBLIBERR::eWrongRowCount);
}

void CTPCC_DBLIB::StockLevel()
{
          int                           iTryCount =
0;
          const BYTE          *pData;

          ResetError();

          while (TRUE)
          {
                    try
                    {
                              dbrpcinit(m_dbproc,
"tpcc_stocklevel", 0);

                              dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.StockLevel.w_id);                // @w_id int
                              dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.StockLevel.d_id);                // @d_id
tinyint
                              dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -1, -1, (BYTE *)
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
&m_txn.StockLevel.threshold);   // @threshhold
smallint

                              if (dbrpcexec(m_dbproc)
== FAIL)

          ThrowError(CDBLIBERR::eDbRpcExec);

                              if (dbresults(m_dbproc)
!= SUCCEED)

          ThrowError(CDBLIBERR::eDbResults);

                              if (dbnextrow(m_dbproc)
!= REG_ROW)

          ThrowError(CDBLIBERR::eDbNextRow);

                              if
(pData=dbdata(m_dbproc, 1))

          m_txn.StockLevel.low_stock = *((long *)
pData);

                              DiscardNextRows(0);
                              DiscardNextResults(0);


          m_txn.StockLevel.exec_status_code = eOK;
                              return;
                    }
                    catch (CSQLERR *e)
                    {
                              if ((e->m_msgno == 1205
||
                                        (e->m_msgno
== iErrOleDbProvider &&
                                        strstr(e-
>m_msgtext, sErrTimeoutExpired) != NULL)) &&
                                        (++iTryCount
<= iMaxRetries))
                              {
                                        // hit
deadlock; backoff for increasingly longer period
                                        delete e;
                                        Sleep(10 *
iTryCount);
                              }
                              else
                                        throw;
                    }
          }         // while (TRUE)

          //if (iTryCount)
          //        throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}


void CTPCC_DBLIB::NewOrder()
{
          int                         i;
          DBINT               commit_flag;
          DBDATETIME          datetime;
          DBDATEREC daterec;

          int                         iTryCount =
0;
          const BYTE          *pData;

          ResetError();

          while (TRUE)
          {
                    try
                    {
                              dbrpcinit(m_dbproc,
"tpcc_neworder", 0);

                              dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.NewOrder.w_id);
                              dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.NewOrder.d_id);
                              dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.NewOrder.c_id);
                              dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.NewOrder.o_ol_cnt);

                              // check whether any
order lines are for a remote warehouse

          m_txn.NewOrder.o_all_local = 1;
                              for (i = 0; i <
m_txn.NewOrder.o_ol_cnt; i++)
                              {
                                        if
(m_txn.NewOrder.OL[i].ol_supply_w_id !=
m_txn.NewOrder.w_id)
                                        {

          m_txn.NewOrder.o_all_local = 0;  // at
least one remote warehouse

          break;
                                        }
                              }
                              dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.NewOrder.o_all_local);

                              for (i = 0; i <
m_txn.NewOrder.o_ol_cnt; i++)
                              {

          dbrpcparam(m_dbproc, NULL, 0, SQLINT4, -1,
-1, (BYTE *) &m_txn.NewOrder.OL[i].ol_i_id);

          dbrpcparam(m_dbproc, NULL, 0, SQLINT4, -1,
-1, (BYTE *) &m_txn.NewOrder.OL[i].ol_supply_w_id);

          dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1,
-1, (BYTE *) &m_txn.NewOrder.OL[i].ol_quantity);
                              }

                              if (dbrpcexec(m_dbproc)
== FAIL)

          ThrowError(CDBLIBERR::eDbRpcExec);


                              // Get order line
results

          m_txn.NewOrder.total_amount = 0;
                              for (i = 0;
i<m_txn.NewOrder.o_ol_cnt; i++)
                              {
                                        if
(dbresults(m_dbproc) != SUCCEED)

          ThrowError(CDBLIBERR::eDbResults);

                                        if
(dbnumcols(m_dbproc) != 5)

          ThrowError(CDBLIBERR::eWrongNumCols);

                                        if
(dbnextrow(m_dbproc) != REG_ROW)

          ThrowError(CDBLIBERR::eDbNextRow);


          if(pData=dbdata(m_dbproc, 1))

          UtilStrCpy(m_txn.NewOrder.OL[i].ol_i_name,
pData, dbdatlen(m_dbproc, 1));

          if(pData=dbdata(m_dbproc, 2))

          m_txn.NewOrder.OL[i].ol_stock =
(*(DBSMALLINT *) pData);

          if(pData=dbdata(m_dbproc, 3))

          UtilStrCpy(m_txn.NewOrder.OL[i].ol_brand_ge
neric, pData, dbdatlen(m_dbproc, 3));

          if(pData=dbdata(m_dbproc, 4))

          dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,4),

          SQLFLT8, (BYTE
*)&m_txn.NewOrder.OL[i].ol_i_price, 8);

          if(pData=dbdata(m_dbproc, 5))
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,5),

        SQLFLT8, (BYTE
*)&m_txn.NewOrder.OL[i].ol_amount, 8);


        m_txn.NewOrder.total_amount =
m_txn.NewOrder.total_amount +
m_txn.NewOrder.OL[i].ol_amount;


        DiscardNextRows(0);
                        }


                        // get remaining values
for w_tax, d_tax, o_id, c_last, c_discount, c_credit,
o_entry_d, commit_flag
                        if (dbresults(m_dbproc)
!= SUCCEED)

        ThrowError(CDBLIBERR::eDbResults);

                        if (dbnextrow(m_dbproc)
!= REG_ROW)

        ThrowError(CDBLIBERR::eDbNextRow);

                        if (dbnumcols(m_dbproc)
!= 8)

        ThrowError(CDBLIBERR::eWrongNumCols);

                        if
(pData=dbdata(m_dbproc, 1))




        dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,1), SQLFLT8, (BYTE
*)&m_txn.NewOrder.w_tax, 8);
                        if
(pData=dbdata(m_dbproc, 2))


        dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,2), SQLFLT8, (BYTE
*)&m_txn.NewOrder.d_tax, 8);
                        if
(pData=dbdata(m_dbproc, 3))

        m_txn.NewOrder.o_id = (*(DBINT *) pData);
                        if
(pData=dbdata(m_dbproc, 4))

        UtilStrCpy(m_txn.NewOrder.c_last, pData,
dbdatlen(m_dbproc, 4));
                        if
(pData=dbdata(m_dbproc, 5))

        dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,5), SQLFLT8, (BYTE
*)&m_txn.NewOrder.c_discount, 8);
                        if
(pData=dbdata(m_dbproc, 6))

        UtilStrCpy(m_txn.NewOrder.c_credit, pData,
dbdatlen(m_dbproc, 6));
                        if
(pData=dbdata(m_dbproc, 7))
                        {
                                datetime =
*((DBDATETIME *) pData);

        dbdatecrack(m_dbproc, &daterec, &datetime);

        m_txn.NewOrder.o_entry_d.year   =
daterec.year;

        m_txn.NewOrder.o_entry_d.month  =
daterec.month;

        m_txn.NewOrder.o_entry_d.day    =
daterec.day;

        m_txn.NewOrder.o_entry_d.hour   =
daterec.hour;

        m_txn.NewOrder.o_entry_d.minute =
daterec.minute;

        m_txn.NewOrder.o_entry_d.second =
daterec.second;
                        }
                        if
(pData=dbdata(m_dbproc, 8))
                                commit_flag =
(*(DBTINYINT *) pData);

                        DiscardNextRows(0);
                        DiscardNextResults(0);


                        if (commit_flag == 1)
                        {

        m_txn.NewOrder.total_amount *= ((1 +
m_txn.NewOrder.w_tax + m_txn.NewOrder.d_tax) * (1 -
m_txn.NewOrder.c_discount));

        m_txn.NewOrder.exec_status_code = eOK;
                        }
                        else

        m_txn.NewOrder.exec_status_code =
eInvalidItem;

                        return;
                }
                catch (CSQLERR *e)
                {
                        if ((e->m_msgno == 1205
||
                                (e->m_msgno
== iErrOleDbProvider &&
                                strstr(e-
>m_msgtext, sErrTimeoutExpired) != NULL)) &&
                                (++iTryCount
<= iMaxRetries))
                        {
                                // hit
deadlock; backoff for increasingly longer period
                                delete e;
                                Sleep(10 *
iTryCount);
                        }
                        else
                                throw;
                }
        }       // while (TRUE)

//      if (iTryCount)
//              throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}


void CTPCC_DBLIB::Payment()
{
        DBDATETIME          datetime;
        DBDATEREC daterec;

        int                         iTryCount =
0;
        const BYTE          *pData;

        ResetError();

        while (TRUE)
        {
                try
                {
                        dbrpcinit(m_dbproc,
"tpcc_payment", 0);

                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.Payment.w_id);
                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.Payment.c_w_id);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        dbrpcparam(m_dbproc,
NULL, 0, SQLFLT8, -1, -1, (BYTE *)
&m_txn.Payment.h_amount);
                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.Payment.d_id);
                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.Payment.c_d_id);
                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.Payment.c_id);

                        // if customer id is
zero, then payment is by name
                        if (m_txn.Payment.c_id
== 0)

        dbrpcparam(m_dbproc, NULL, 0, SQLCHAR, -1,
strlen(m_txn.Payment.c_last), (unsigned char
*)m_txn.Payment.c_last);

                        if (dbrpcexec(m_dbproc)
== FAIL)

        ThrowError(CDBLIBERR::eDbRpcExec);

                        if (dbresults(m_dbproc)
!= SUCCEED)

        ThrowError(CDBLIBERR::eDbResults);

                        if (dbnextrow(m_dbproc)
!= REG_ROW)

        ThrowError(CDBLIBERR::eDbNextRow);

                        if (dbnumcols(m_dbproc)
!= 27)

        ThrowError(CDBLIBERR::eWrongNumCols);

                        if
(pData=dbdata(m_dbproc, 1))

        m_txn.Payment.c_id = *((DBINT *) pData);
                        if
(pData=dbdata(m_dbproc, 2))

        UtilStrCpy(m_txn.Payment.c_last, pData,
dbdatlen(m_dbproc, 2));
                        if
(pData=dbdata(m_dbproc, 3))
                        {
                                datetime =
*((DBDATETIME *) pData);

        dbdatecrack(m_dbproc, &daterec, &datetime);

        m_txn.Payment.h_date.year   = daterec.year;

        m_txn.Payment.h_date.month  =
daterec.month;

        m_txn.Payment.h_date.day    = daterec.day;

        m_txn.Payment.h_date.hour   = daterec.hour;

        m_txn.Payment.h_date.minute =
daterec.minute;

        m_txn.Payment.h_date.second =
daterec.second;
                        }
                        if
(pData=dbdata(m_dbproc, 4))

        UtilStrCpy(m_txn.Payment.w_street_1, pData,
dbdatlen(m_dbproc, 4));
                        if
(pData=dbdata(m_dbproc, 5))

        UtilStrCpy(m_txn.Payment.w_street_2, pData,
dbdatlen(m_dbproc, 5));
                        if
(pData=dbdata(m_dbproc, 6))

        UtilStrCpy(m_txn.Payment.w_city, pData,
dbdatlen(m_dbproc, 6));
                        if
(pData=dbdata(m_dbproc, 7))

        UtilStrCpy(m_txn.Payment.w_state, pData,
dbdatlen(m_dbproc, 7));
                        if
(pData=dbdata(m_dbproc, 8))

        UtilStrCpy(m_txn.Payment.w_zip, pData,
dbdatlen(m_dbproc, 8));
                        if
(pData=dbdata(m_dbproc, 9))

        UtilStrCpy(m_txn.Payment.d_street_1, pData,
dbdatlen(m_dbproc, 9));
                        if
(pData=dbdata(m_dbproc, 10))

        UtilStrCpy(m_txn.Payment.d_street_2, pData,
dbdatlen(m_dbproc, 10));
                        if
(pData=dbdata(m_dbproc, 11))

        UtilStrCpy(m_txn.Payment.d_city, pData,
dbdatlen(m_dbproc, 11));
                        if
(pData=dbdata(m_dbproc, 12))

        UtilStrCpy(m_txn.Payment.d_state, pData,
dbdatlen(m_dbproc, 12));
                        if
(pData=dbdata(m_dbproc, 13))

        UtilStrCpy(m_txn.Payment.d_zip, pData,
dbdatlen(m_dbproc, 13));
                        if
(pData=dbdata(m_dbproc, 14))

        UtilStrCpy(m_txn.Payment.c_first, pData,
dbdatlen(m_dbproc, 14));
                        if
(pData=dbdata(m_dbproc, 15))

        UtilStrCpy(m_txn.Payment.c_middle, pData,
dbdatlen(m_dbproc, 15));
                        if
(pData=dbdata(m_dbproc, 16))

        UtilStrCpy(m_txn.Payment.c_street_1, pData,
dbdatlen(m_dbproc, 16));
                        if
(pData=dbdata(m_dbproc, 17))

        UtilStrCpy(m_txn.Payment.c_street_2, pData,
dbdatlen(m_dbproc, 17));
                        if
(pData=dbdata(m_dbproc, 18))

        UtilStrCpy(m_txn.Payment.c_city, pData,
dbdatlen(m_dbproc, 18));
                        if
(pData=dbdata(m_dbproc, 19))

        UtilStrCpy(m_txn.Payment.c_state, pData,
dbdatlen(m_dbproc, 19));
                        if
(pData=dbdata(m_dbproc, 20))

        UtilStrCpy(m_txn.Payment.c_zip, pData,
dbdatlen(m_dbproc, 20));
                        if
(pData=dbdata(m_dbproc, 21))

        UtilStrCpy(m_txn.Payment.c_phone, pData,
dbdatlen(m_dbproc, 21));
                        if
(pData=dbdata(m_dbproc, 22))
                        {
                                datetime =
*((DBDATETIME *) pData);

        dbdatecrack(m_dbproc, &daterec, &datetime);

        m_txn.Payment.c_since.year   =
daterec.year;

        m_txn.Payment.c_since.month  =
daterec.month;

        m_txn.Payment.c_since.day    = daterec.day;

        m_txn.Payment.c_since.hour   =
daterec.hour;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          m_txn.Payment.c_since.minute =
dateрec.minute;

          m_txn.Payment.c_since.second =
dateрec.second;
                              }

          if(pData=dbdata(m_dbproc, 23))

          UtilStrCpy(m_txn.Payment.c_credit, pData,
dbdatlen(m_dbproc, 23));

          if(pData=dbdata(m_dbproc, 24))

          dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,24), SQLFLT8, (BYTE
*)&m_txn.Payment.c_credit_lim, 8);

          if(pData=dbdata(m_dbproc, 25))

          dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,25), SQLFLT8, (BYTE
*)&m_txn.Payment.c_discount, 8);

          if(pData=dbdata(m_dbproc, 26))

          dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,26), SQLFLT8, (BYTE
*)&m_txn.Payment.c_balance, 8);

          if(pData=dbdata(m_dbproc, 27))

          UtilStrCpy(m_txn.Payment.c_data, pData,
dbdatlen(m_dbproc, 27));

                              DiscardNextRows(0);
                              DiscardNextResults(0);



                              if (m_txn.Payment.c_id
== 0)
                                        throw new
CTPCC_DBLIB_ERR( CTPCC_DBLIB_ERR::ERR_INVALID_CUST );
                              else

          m_txn.Payment.exec_status_code = eOK;

                              return;
                    }
                    catch (CSQLERR *e)
                    {
                              if ((e->m_msgno == 1205
||
                                        (e->m_msgno
== iErrOleDbProvider &&
                                        strstr(e-
>m_msgtext, sErrTimeoutExpired) != NULL)) &&
                                        (++iTryCount
<= iMaxRetries))
                              {
                                                  // hit
deadlock; backoff for increasingly longer period
                                                  delete e;
                                                  Sleep(10 *
iTryCount);
                                        }
                                        else
                                                  throw;
                              }
                    }         // while (TRUE)

//        if (iTryCount)
//                  throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}



void CTPCC_DBLIB::OrderStatus()
{
          int                             i;
          DBDATETIME          datetime;
          DBDATEREC dateрec;

          int                             iTryCount =
0;
          RETCODE             rc;
          const BYTE          *pData;

          ResetError();

          while (TRUE)
          {
                    try
                    {
                                        dbrpcinit(m_dbproc,
"tpcc_orderstatus", 0);

                                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.OrderStatus.w_id);
                                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.OrderStatus.d_id);
                                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.OrderStatus.c_id);

                                        // if customer id is
zero, then order status is by name
                                        if
(m_txn.OrderStatus.c_id == 0)

                    dbrpcparam(m_dbproc, NULL, 0, SQLCHAR, -1,
strlen(m_txn.OrderStatus.c_last), (unsigned char
*)m_txn.OrderStatus.c_last);


                                        if (dbrpcexec(m_dbproc)
== FAIL)
          ThrowError(CDBLIBERR::eDbRpcExec);

                                        // Get order lines
                                        if (dbresults(m_dbproc)
!= SUCCEED)
                                        {
                                                  if
((m_DbLibErr == NULL) && (m_SqlErr == NULL))

          throw new CTPCC_DBLIB_ERR(
CTPCC_DBLIB_ERR::ERR_NO_SUCH_ORDER );
                                                  else

          ThrowError(CDBLIBERR::eDbResults);
                                        }

                                        if (dbnumcols(m_dbproc)
!= 5)

          ThrowError(CDBLIBERR::eWrongNumCols);

                                        i = 0;
                                        while (TRUE)
                                        {
                                                  rc =
dbnextrow(m_dbproc);
                                                  if (rc ==
NO_MORE_ROWS)

          break;
                                                  if (rc !=
REG_ROW)

          ThrowError(CDBLIBERR::eDbNextRow);


          if(pData=dbdata(m_dbproc, 1))

          m_txn.OrderStatus.OL[i].ol_supply_w_id =
(*(DBSMALLINT *) pData);

          if(pData=dbdata(m_dbproc, 2))

          m_txn.OrderStatus.OL[i].ol_i_id = (*(DBINT
*) pData);

          if(pData=dbdata(m_dbproc, 3))

          m_txn.OrderStatus.OL[i].ol_quantity =
(*(DBSMALLINT *) pData);

          if(pData=dbdata(m_dbproc, 4))

          dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,4),

                    SQLFLT8, (BYTE
*)&m_txn.OrderStatus.OL[i].ol_amount, 8);

          if(pData=dbdata(m_dbproc, 5))
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                        {

          datetime = *((DBDATETIME *) pData);

          dbdatecrack(m_dbproc, &daterec, &datetime);

          m_txn.OrderStatus.OL[i].ol_delivery_d.year
= daterec.year;

          m_txn.OrderStatus.OL[i].ol_delivery_d.month
= daterec.month;

          m_txn.OrderStatus.OL[i].ol_delivery_d.day
= daterec.day;

          m_txn.OrderStatus.OL[i].ol_delivery_d.hour
= daterec.hour;

          m_txn.OrderStatus.OL[i].ol_delivery_d.minut
e = daterec.minute;

          m_txn.OrderStatus.OL[i].ol_delivery_d.secon
d = daterec.second;
                                        }
                                        i++;
                               }

          m_txn.OrderStatus.o_ol_cnt = i;


                               if (dbresults(m_dbproc)
!= SUCCEED)

          ThrowError(CDBLIBERR::eDbResults);

                               if (dbnextrow(m_dbproc)
!= REG_ROW)

          ThrowError(CDBLIBERR::eDbNextRow);

                               if (dbnumcols(m_dbproc)
!= 8)

          ThrowError(CDBLIBERR::eWrongNumCols);


          if(pData=dbdata(m_dbproc, 1))

          m_txn.OrderStatus.c_id = (*(DBINT *)
pData);

          if(pData=dbdata(m_dbproc, 2))

          UtilStrCpy(m_txn.OrderStatus.c_last, pData,
dbdatlen(m_dbproc,2));

          if(pData=dbdata(m_dbproc, 3))

          UtilStrCpy(m_txn.OrderStatus.c_first,
pData, dbdatlen(m_dbproc,3));

          if(pData=dbdata(m_dbproc, 4))

          UtilStrCpy(m_txn.OrderStatus.c_middle,
pData, dbdatlen(m_dbproc, 4));

          if(pData=dbdata(m_dbproc, 5))
                                        {
                                                  datetime =
*((DBDATETIME *) pData);

          dbdatecrack(m_dbproc, &daterec, &datetime);

          m_txn.OrderStatus.o_entry_d.year   =
daterec.year;

          m_txn.OrderStatus.o_entry_d.month  =
daterec.month;

          m_txn.OrderStatus.o_entry_d.day    =
daterec.day;

          m_txn.OrderStatus.o_entry_d.hour   =
daterec.hour;

          m_txn.OrderStatus.o_entry_d.minute =
daterec.minute;

          m_txn.OrderStatus.o_entry_d.second =
daterec.second;
                                        }

          if(pData=dbdata(m_dbproc, 6))

          m_txn.OrderStatus.o_carrier_id =
(*(DBSMALLINT *) pData);

          if(pData=dbdata(m_dbproc, 7))

          dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,7),

            SQLFLT8, (BYTE
*)&m_txn.OrderStatus.c_balance, 8);

          if(pData=dbdata(m_dbproc, 8))

          m_txn.OrderStatus.o_id = (*(DBINT *)
pData);

                                        DiscardNextRows(0);
                                        DiscardNextResults(0);


                                        if
(m_txn.OrderStatus.o_ol_cnt == 0)
                                                  throw new
CTPCC_DBLIB_ERR( CTPCC_DBLIB_ERR::ERR_NO_SUCH_ORDER
);
                                        else if
(m_txn.OrderStatus.c_id == 0 &&
m_txn.OrderStatus.c_last[0] == 0)
                                                  throw new
CTPCC_DBLIB_ERR( CTPCC_DBLIB_ERR::ERR_INVALID_CUST );
                                        else

          m_txn.OrderStatus.exec_status_code = eOK;

                                        return;
                               }
                               catch (CSQLERR *e)
                               {
                                        if ((e->m_msgno == 1205
||
                                                  (e->m_msgno
== iErrOleDbProvider &&
                                                  strstr(e-
>m_msgtext, sErrTimeoutExpired) != NULL)) &&
                                                  (++iTryCount
<= iMaxRetries))
                                        {
                                                  // hit
deadlock; backoff for increasingly longer period
                                                  delete e;
                                                  Sleep(10 *
iTryCount);
                                        }
                                        else
                                                  throw;
                               }
          }         // while (TRUE)

//        if (iTryCount)
//                  throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}


void CTPCC_DBLIB::Delivery()
{
          int                              i;
          int                              iTryCount =
0;
          const BYTE          *pData;

          ResetError();

          while (TRUE)
          {
                    try
                    {
                                        dbrpcinit(m_dbproc,
"tpcc_delivery", 0);

                                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.Delivery.w_id);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.Delivery.o_carrier_id);

                        if (dbrpcexec(m_dbproc)
== FAIL)

          ThrowError(CDBLIBERR::eDbRpcExec);

                        if (dbresults(m_dbproc)
!= SUCCEED)

          ThrowError(CDBLIBERR::eDbResults);

                        if (dbnextrow(m_dbproc)
!= REG_ROW)

          ThrowError(CDBLIBERR::eDbNextRow);

                        if (dbnumcols(m_dbproc)
!= 10)

          ThrowError(CDBLIBERR::eWrongNumCols);

                        for (i=0; i<10; i++)
                        {
                                  if (pData =
dbdata(m_dbproc, i+1))

          m_txn.Delivery.o_id[i] = *((DBINT *)pData);
                        }

                        DiscardNextRows(0);
                        DiscardNextResults(0);


          m_txn.Delivery.exec_status_code = eOK;
                        return;
                }
                catch (CSQLERR *e)
                {
                        if ((e->m_msgno == 1205
||
                                  (e->m_msgno
== iErrOleDbProvider &&
                                  strstr(e-
>m_msgtext, sErrTimeoutExpired) != NULL)) &&
                                  (++iTryCount
<= iMaxRetries))
                        {
                                  // hit
deadlock; backoff for increasingly longer period
                                  delete e;
                                  Sleep(10 *
iTryCount);
                        }
                        else
                                  throw;
                }
          }         // while (TRUE)
```

```
//        if (iTryCount)
//                  throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_DBLIB::ResetError()
{
          if (m_DbLibErr != NULL)
          {
                    delete m_DbLibErr;
                    m_DbLibErr = (CDBLIBERR*)NULL;
          }

          if (m_SqlErr != NULL)
          {
                    delete m_SqlErr;
                    m_SqlErr = (CSQLERR*)NULL;
          }
          return;
}
```

tpcc_dblib.h

```
/*        FILE:               TPCC_DBLIB.H
 *                                  Microsoft
TPC-C Kit Ver. 4.20.000
 *                                  Copyright
Microsoft, 1999
 *             All Rights Reserved
 *
 *                                  Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Header file for TPC-C txn class
implementation.
 *
 *  Change history:
 *                  4.20.000 - updated rev number to
match kit
 */
#pragma once

#ifndef PDBPROCESS
#define DBPROCESS void   // dbprocess structure type
typedef DBPROCESS * PDBPROCESS;
#endif

// need to declare functions for import, unless
define has already been created
// by the DLL's .cpp module for export.
#ifndef DllDecl
#define DllDecl  __declspec( dllimport )
#endif

class CSQLERR : public CBaseErr
{
          public:
                    CSQLERR(void)
                    {
                              m_msgno = 0;
                              m_msgstate = 0;
                              m_severity = 0;
                              m_msgtext = NULL;
                    };

                    ~CSQLERR()
                    {
                              delete [] m_msgtext;
                    };

                    int                 m_msgno;
                    int                 m_msgstate;
                    int                 m_severity;
                    char   *m_msgtext;

                    int                 ErrorType()
{return ERR_TYPE_SQL;};
                    char*     ErrorTypeStr() { return
"SQL"; }
                    int                 ErrorNum()
{return m_msgno;};
                    char*     ErrorText() {return
m_msgtext;};

};

class CDBLIBERR : public CBaseErr
{
          public:
                    enum ACTION
                    {
                              eNone,
                              eUnknown,
                              eLogin,
                    // error from dblogin
                              eDbOpen,
          // error from dbopen
                              eDbUse,
                    // error from dbuse
                              eDbSqlExec,
                    // error from dbsqlexec
                              eDbSet,
                    // error from one of the dbset*
routines
                              eDbNextRow,
                    // error from dbnextrow
                              eWrongRowCount,
          // more or less rows returned than expected
                              eWrongNumCols,
          // more or less columns returned than
expected
                              eDbResults,
                    // error from dbresults
                              eDbRpcExec,
                    // error from dbrpcexec
                              eDbSetMaxProcs,
          // error from dbsetmaxprocs
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        eDbProcHandler
        // error from either dbprocerrhandle or
dbprocmsghandle
                };

                CDBLIBERR(ACTION eAction, int
severity = 0, int dberror = 0, int oserr = 0)
                {
                        m_eAction = eAction;
                        m_severity = severity;
                        m_dberror = dberror;
                        m_oserr = oserr;

                        m_dberrstr = NULL;
                        m_oserrstr = NULL;
                };

                ~CDBLIBERR()
                {
                        delete [] m_dberrstr;
                        delete [] m_oserrstr;
                };

                ACTION    m_eAction;
                int                m_severity;
                int                m_dberror;
                int                m_oserr;
                char   *m_dberrstr;
                char   *m_oserrstr;

                int                ErrorType()
{return ERR_TYPE_DBLIB;};
                char*     ErrorTypeStr() { return
"DBLIB"; }
                int                ErrorNum()
{return m_dberror;};
                char*     ErrorText() {return
m_dberrstr;};
                int                ErrorAction()
{ return (int)m_eAction; }

};

class CTPCC_DBLIB_ERR : public CBaseErr
{
        public:
                enum CTPCC_DBLIB_ERRS
                {
                        ERR_WRONG_SP_VERSION =
1,        // "Wrong version of stored procs on
database server"
                        ERR_INVALID_CUST,
                // "Invalid Customer id,name."
                        ERR_NO_SUCH_ORDER,
                // "No orders found for
customer."
                        ERR_RETRIED_TRANS,
                // "Retries before transaction
succeeded."
                };

                CTPCC_DBLIB_ERR( int iErr ) {
m_errno = iErr; m_iTryCount = 0; };

                CTPCC_DBLIB_ERR( int iErr, int
iTryCount ) { m_errno = iErr; m_iTryCount =
iTryCount; };

                int                m_errno;
                int                m_iTryCount;

                int                ErrorType()
{return ERR_TYPE_TPCC_DBLIB;};
                char*     ErrorTypeStr() { return
"TPCC DBLIB"; }
                int                ErrorNum()
{return m_errno;};

                char*     ErrorText();
};

class DllDecl CTPCC_DBLIB : public CTPCC_BASE
{
        private:
                // declare variables and private
functions here...
                PDBPROCESS          m_dbproc;
                CDBLIBERR *m_DbLibErr;
        // not allocated until needed (maybe never)
                CSQLERR             *m_SqlErr;
                        // not allocated until
needed (maybe never)
                int
        m_MaxRetries;                // retry
count on deadlock

                void DiscardNextRows(int
iExpectedCount);
                void DiscardNextResults(int
iExpectedCount);
                void ThrowError(
CDBLIBERR::ACTION eAction );
                void ResetError();

                union
                {
                        NEW_ORDER_DATA
        NewOrder;
                        PAYMENT_DATA
        Payment;
                        DELIVERY_DATA
        Delivery;
                        STOCK_LEVEL_DATA
        StockLevel;
                        ORDER_STATUS_DATA
        OrderStatus;
                }
        m_txn;

        public:
                CTPCC_DBLIB(LPCSTR szServer,
LPCSTR szUser, LPCSTR szPassword, LPCSTR szHost,
LPCSTR szDatabase );
                ~CTPCC_DBLIB(void);

                inline PNEW_ORDER_DATA
        BuffAddr_NewOrder()          { return
&m_txn.NewOrder;    };
                inline PPAYMENT_DATA
        BuffAddr_Payment()           { return
&m_txn.Payment;     };
                inline PDELIVERY_DATA
        BuffAddr_Delivery()          { return
&m_txn.Delivery;    };
                inline PSTOCK_LEVEL_DATA
        BuffAddr_StockLevel()        { return
&m_txn.StockLevel;  };
                inline PORDER_STATUS_DATA
        BuffAddr_OrderStatus()       { return
&m_txn.OrderStatus; };

                void NewOrder                ();
                void Payment                 ();
                void Delivery                ();
                void StockLevel              ();
                void OrderStatus    ();


                // these are public because they
must be called from the dblib err_handler and
msg_hangler
                // outside of the class
                void SetDbLibError(int severity,
int dberr, int oserr, LPCSTR dberrstr, LPCSTR
oserrstr);
                void SetSqlError( int msgno, int
msgstate, int severity, LPCSTR msgtext );

};

extern "C" DllDecl CTPCC_DBLIB* CTPCC_DBLIB_new
          ( LPCSTR szServer, LPCSTR szUser, LPCSTR
szPassword, LPCSTR szHost, LPCSTR szDatabase );

typedef CTPCC_DBLIB* (TYPE_CTPCC_DBLIB)(LPCSTR,
LPCSTR, LPCSTR, LPCSTR, LPCSTR);
```

tpcc_enc.cpp

```
// ctpcc_enc.cpp: implementation of the CTPCC_ENCINA
class.
//
//////////////////////////////////////////////////////
/////////////////

#include <windows.h>
#include <process.h>
#include <stdio.h>
#include <stdarg.h>
#include <malloc.h>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <io.h>

#ifdef ICECAP
#include <icapexp.h>
#endif

// need to declare functions for export
#define DllDecl  __declspec( dllexport )

#include "..\..\common\src\trans.h"
//tpckit transaction header contains definitions of
structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_enc.h"
#include "..\include\tpcc_type.h"
#include "mon_client.h"
#include "client_utils.h"

static CRITICAL_SECTION         TpCriticalSection;
extern "C" char *errFile;

BOOL APIENTRY DllMain(HANDLE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{

        switch( ul_reason_for_call )
        {
                case DLL_PROCESS_ATTACH:


DisableThreadLibraryCalls(hModule);

InitializeCriticalSection(&TpCriticalSection);
                        break;

                case DLL_PROCESS_DETACH:

DeleteCriticalSection(&TpCriticalSection);
                        break;

                default:
                        /* nothing */;
        }
        return TRUE;
}

// wrapper routine for class constructor
__declspec(dllexport) CTPCC_ENCINA*
CTPCC_ENCINA_new()
{
         return new CTPCC_ENCINA();
}

// wrapper routine for enroll_client
__declspec(dllexport) CTPCC_ENCINA*
CTPCC_ENCINA_post_init()
{
          enroll_client();
          return NULL;
}

// constructor and destructor
CTPCC_ENCINA::CTPCC_ENCINA()
{
          //        Add initialization of ENCINA
Structures if any
          m_txn = (ENC_DATA
*)malloc(sizeof(ENC_DATA));
          if (m_txn == NULL)
                    throw new
CENCERR(ERR_TYPE_MEMORY, ERR_FATAL_LEVEL);
}

CTPCC_ENCINA::~CTPCC_ENCINA()
{
          // free the data structure allocated with
tpalloc
          free((char *)m_txn);
}

void CTPCC_ENCINA::NewOrder()
{

          // question: if we need to prepare the
data?
    if (send_new_order(sizeof(ENC_DATA), (unsigned
char *)m_txn) == TRPC_ERROR)
                    throw new CENCERR(TRPC_ERROR);

    if ( m_txn->ErrorType != ERR_SUCCESS )
                    throw new CENCERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_ENCINA::Payment()
{
    if (send_payment(sizeof(ENC_DATA), (unsigned char
*)m_txn) == TRPC_ERROR)
                    throw new CENCERR(TRPC_ERROR);

    if ( m_txn->ErrorType != ERR_SUCCESS )
                    throw new CENCERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_ENCINA::Delivery()
{

          // Note: Delivery txn code in the tuxedo
server does not implement logging of the delivery
          //       txn results, so cannot be used as
is to run an auditable TPC-C result.  For that
          //       reason, delivery txns should not
be done via Tuxedo.
          //       The code is included for
completeness.
          //m_txn->u.Delivery.exec_status_code =
eDeliveryFailed;
          //return;

          // Note: If we use the delivery thread in
tpcc.dll, it is not possible to get to this
          //       point for delivery txns. But if we
use Encina delivery server, the code is
          //       needed. It is suggested using the
delivery thread in tpcc.dll since it is
          //       convenient and provides best
performance.
          GetLocalTime(&m_txn-
>u.Delivery.queue_time);

    if (send_delivery(sizeof(ENC_DATA), (unsigned
char *)m_txn) == TRPC_ERROR)
                    m_txn-
>u.Delivery.exec_status_code = eDeliveryFailed;
    else
                    m_txn-
>u.Delivery.exec_status_code = eOK;
}

void CTPCC_ENCINA::StockLevel()
{

    if (send_stock_level(sizeof(ENC_DATA), (unsigned
char *)m_txn) == TRPC_ERROR)
                    throw new CENCERR(TRPC_ERROR);

    if ( m_txn->ErrorType != ERR_SUCCESS )
                    throw new CENCERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_ENCINA::OrderStatus()
{

    if (send_order_status(sizeof(ENC_DATA), (unsigned
char *)m_txn) == TRPC_ERROR)
                    throw new CENCERR(TRPC_ERROR);

    if ( m_txn->ErrorType != ERR_SUCCESS )
                    throw new CENCERR( m_txn-
>ErrorType, m_txn->error );
}

char *CENCERR::ErrorText()
{
          if (m_iErrorType == TRPC_ERROR)
          {
                    sprintf( m_szErrorText, "Error:
ENCINA TRPC error (see log file %s for details)",
errFile);
          }
          else
                    sprintf( m_szErrorText, "Error:
Class %d, error # %d", m_iErrorType, m_iError );
          return m_szErrorText;
};
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

tpcc_enc.h

```
/*        FILE:                 TPCC_ENCINA.H
 *                                      Microsoft
TPC-C Kit Ver. 4.10.000
 *                                      not yet
audited
 *
 *        PURPOSE:  Header file for TPC-C Encina
class implementation.
 *                                      Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 */

#if !defined(_TPCC_ENCINA_H_)
#define _TPCC_ENCINA_H_

#pragma once

// need to declare functions for import, unless
define has already been created
// by the DLL's .cpp module for export.
#ifndef DllDecl
#define DllDecl  __declspec( dllimport )
#endif

class CTPCC_ENCINA : public CTPCC_BASE
{
          private:
                    struct ENC_DATA
                    {
                              int
                              ErrorType;
                              int
                              error;

                              union
                              {

          NEW_ORDER_DATA                  NewOrder;
                                          PAYMENT_DATA
                    Payment;
                                          DELIVERY_DATA
                    Delivery;

          STOCK_LEVEL_DATA    StockLevel;

          ORDER_STATUS_DATA   OrderStatus;
                              } u;
                    } *m_txn;

          public:

                    CTPCC_ENCINA();
                    virtual ~CTPCC_ENCINA();
                              inline PNEW_ORDER_DATA
                    BuffAddr_NewOrder()           { return
&m_txn->u.NewOrder;     };
                              inline PPAYMENT_DATA
                    BuffAddr_Payment()            { return
&m_txn->u.Payment;      };
                              inline PDELIVERY_DATA
                    BuffAddr_Delivery()           { return
&m_txn->u.Delivery;     };
                              inline PSTOCK_LEVEL_DATA
                    BuffAddr_StockLevel()         { return
&m_txn->u.StockLevel;  };
                              inline PORDER_STATUS_DATA
                    BuffAddr_OrderStatus()        { return
&m_txn->u.OrderStatus; };

                              void NewOrder                 ();
                              void Payment                  ();
                              void Delivery                 ();
                              void StockLevel               ();
                              void OrderStatus    ();
};


class CENCERR : public CBaseErr
{

          private:
                              char      m_szErrorText[64];
          public:
                              int                 m_errno;
          //
                              int                 m_iErrorType;
// match ErrorType in CTPCC_ENCINA
                              int                 m_iError;
          // machine error in CTPCC_ENCINA

                              // use this interface for genuine
Encina errors
                              CENCERR( int iErr )
                              {
                                        m_errno = iErr;     //
ENCINA error
                                        m_iErrorType =
ERR_TYPE_ENCINA;
                                        m_iError = 0;       //
only meaningful if m_errno == TPEOS
                              };

                              // use this interface to
impersonate a non-Encina error type
                              CENCERR( int iErrorType, int
iError )
                              {
                                        m_iErrorType =
iErrorType;
                                        m_iError = iError;
                                        m_errno = iError;   //
???
                              }
                              // A CENCERR class can
impersonate another class, which happens if the error
                              // was not actually a Tuxedo
error, but was simply transmitted back via Tuxedo.
                              int ErrorType()
                              {
                                        return m_iErrorType;
                              }

                              int ErrorNum() {return m_errno;};
                              char *ErrorText();
};

// wrapper routine for class constructor:
extern "C" __declspec(dllexport) CTPCC_ENCINA*
CTPCC_ENCINA_new();
extern "C" __declspec(dllexport) CTPCC_ENCINA*
CTPCC_ENCINA_post_init();

typedef CTPCC_ENCINA* (TYPE_CTPCC_ENCINA)();

#endif // !defined(_TPCC_ENCINA_H_)
```

tpcc_odbc.cpp

```
/*        FILE:                 TPCC_ODBC.CPP
 *                                      Microsoft
TPC-C Kit Ver. 4.42.000
 *                                      Copyright
Microsoft, 2002
 *              All Rights Reserved
 *
 *                                      Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Implements ODBC calls for TPC-C
txns.
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                  4.42.000 - changed w_id fields
from short to long to support >32K warehouses
 *                  4.20.000 - updated rev number to
match kit
 *                  4.10.001 - not deleting error
class in catch handler on deadlock retry;
 *                                                not a
functional bug, but a memory leak
 */

#include <windows.h>
#include <stdio.h>
#include <assert.h>

#define DBNTWIN32
#include <sqltypes.h>
#include <sql.h>
#include <sqlext.h>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
//#define COMPILE_FOR_SNAC    // define that to
compile for SQL Native Client; comment out to use
MDAC

#ifndef COMPILE_FOR_SNAC
#include <odbcss.h>
#else
// Compile for SNAC
#include <sqlncli.h>
#endif

#ifdef ICECAP
#include <icapexp.h>
#endif

// need to declare functions for export
#define DllDecl  __declspec( dllexport )

#include "..\..\common\src\error.h"
#include "..\..\common\src\trans.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_odbc.h"

// version string; must match return value from
tpcc_version stored proc
const char          sVersion[] = "4.20.000";

const iMaxRetries = 10;                 // how many
retries on deadlock

const int iErrOleDbProvider = 7312;
const char sErrTimeoutExpired[] = "Timeout expired";

static SQLHENV henv = SQL_NULL_HENV;
                    // ODBC environment handle

BOOL APIENTRY DllMain(HMODULE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{
          switch( ul_reason_for_call )
          {
                    case DLL_PROCESS_ATTACH:

          DisableThreadLibraryCalls(hModule);
                              if (
SQLAllocHandleStd(SQL_HANDLE_ENV, SQL_NULL_HANDLE,
&henv) != SQL_SUCCESS )
                                        return FALSE;
                              break;

                    case DLL_PROCESS_DETACH:
                              if (henv != NULL)

          SQLFreeEnv(henv);
                              break;

                    default:
                              /* nothing */;
          }
          return TRUE;
}

/* FUNCTION: CTPCC_ODBC_ERR::ErrorText
 *
 */

char* CTPCC_ODBC_ERR::ErrorText(void)
{
          int i;

          static SERRORMSG errorMsgs[] =
          {
                    { ERR_WRONG_SP_VERSION,
          "Wrong version of stored procs on database
server"   },
                    { ERR_INVALID_CUST,
          "Invalid Customer id,name."
                                                  },
                    { ERR_NO_SUCH_ORDER,
          "No orders found for customer."
                                                  },
                    { ERR_RETRIED_TRANS,
          "Retries before transaction succeeded."
                                        },
                    { 0,
                                        ""


          }
          };

          static char szNotFound[] = "Unknown error
number.";

          for(i=0; errorMsgs[i].szMsg[0]; i++)
          {
                    if ( m_errno ==
errorMsgs[i].iError )
                              break;
          }
          if ( !errorMsgs[i].szMsg[0] )
                    return szNotFound;
          else
                    return errorMsgs[i].szMsg;
}

// wrapper routine for class constructor
__declspec(dllexport) CTPCC_ODBC* CTPCC_ODBC_new(
          LPCSTR szServer,              // name of
SQL server
          LPCSTR szUser,                          //
user name for login
          LPCSTR szPassword,            // password
for login
          LPCSTR szHost,                          //
not used
          LPCSTR szDatabase,            // name of
database to use
          LPCWSTR szSPPrefix,           // prefix to
append to the stored procedure names
          BOOL bCallNoDuplicatesNewOrder ) // whether
to check for non-duplicate items in NewOrder and call
a new SP
{
          return new CTPCC_ODBC( szServer, szUser,
szPassword, szHost, szDatabase, szSPPrefix,
bCallNoDuplicatesNewOrder );
}


CTPCC_ODBC::CTPCC_ODBC (
          LPCSTR szServer,
          // name of SQL server
          LPCSTR szUser,
                    // user name for login
          LPCSTR szPassword,
          // password for login
          LPCSTR szHost,
                    // not used
          LPCSTR szDatabase,
          // name of database to use
          LPCWSTR szSPPrefix,
          // prefix to append to the stored procedure
names
          BOOL      bCallNoDuplicatesNewOrder //
whether to check for non-duplicate items in NewOrder
and call a new SP
          )
:
m_bCallNoDuplicatesNewOrder(bCallNoDuplicatesNewOrder
)
{
          RETCODE             rc;

          // initialization
          m_hdbc = SQL_NULL_HDBC;
          m_hstmt = SQL_NULL_HSTMT;

          m_hstmtNewOrder = SQL_NULL_HSTMT;
          m_hstmtPayment = SQL_NULL_HSTMT;
          m_hstmtDelivery = SQL_NULL_HSTMT;
          m_hstmtOrderStatus = SQL_NULL_HSTMT;
          m_hstmtStockLevel = SQL_NULL_HSTMT;

          m_descNewOrderCols1 = SQL_NULL_HDESC;
          m_descNewOrderCols2 = SQL_NULL_HDESC;
          m_descOrderStatusCols1 = SQL_NULL_HDESC;
          m_descOrderStatusCols2 = SQL_NULL_HDESC;

          wcsncpy(m_szSPPrefix, szSPPrefix,
sizeof(m_szSPPrefix)/sizeof(m_szSPPrefix[0]));


          if ( SQLAllocHandle(SQL_HANDLE_DBC, henv,
&m_hdbc) != SQL_SUCCESS )

          ThrowError(CODBCERR::eAllocHandle);

          if ( SQLSetConnectOption(m_hdbc,
SQL_PACKET_SIZE, 4096) != SQL_SUCCESS )
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        ThrowError(CODBCERR::eConnOption);

        {
                char
        szConnectStr[256];
                char
        szOutStr[1024];
                SQLSMALLINT
        iOutStrLen;

#ifndef COMPILE_FOR_SNAC
                sprintf( szConnectStr,
"DRIVER=SQL
Server;SERVER=%s;UID=%s;PWD=%s;DATABASE=%s",
                        szServer, szUser,
szPassword, szDatabase );
#else
                // Compile for SNAC
                sprintf( szConnectStr,
"DRIVER=SQL Native
Client;SERVER=%s;UID=%s;PWD=%s;DATABASE=%s",
                        szServer, szUser,
szPassword, szDatabase );
#endif
                rc = SQLDriverConnect(m_hdbc,
NULL, (SQLCHAR*)szConnectStr, sizeof(szConnectStr),
                        (SQLCHAR*)szOutStr,
sizeof(szOutStr), &iOutStrLen, SQL_DRIVER_NOPROMPT );

                if (rc != SQL_SUCCESS && rc !=
SQL_SUCCESS_WITH_INFO)

        ThrowError(CODBCERR::eConnect);
        }

        if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc,
&m_hstmt) != SQL_SUCCESS)

        ThrowError(CODBCERR::eAllocHandle);

        {
                char                buffer[128];

                // set some options affecting
connection behavior
                strcpy(buffer, "set nocount on
set XACT_ABORT ON");
                rc = SQLExecDirect(m_hstmt,
(unsigned char *)buffer, SQL_NTS);
                if (rc != SQL_SUCCESS && rc !=
SQL_SUCCESS_WITH_INFO)

        ThrowError(CODBCERR::eExecDirect);

                // verify that version of stored
procs on server is correct
                char db_sp_version[10];
                strcpy(buffer, "{call
tpcc_version}");
                rc = SQLExecDirect(m_hstmt,
(unsigned char *)buffer, SQL_NTS);
                if (rc != SQL_SUCCESS && rc !=
SQL_SUCCESS_WITH_INFO)

        ThrowError(CODBCERR::eExecDirect);
                if ( SQLBindCol(m_hstmt, 1,
SQL_C_CHAR, &db_sp_version, sizeof(db_sp_version),
NULL) != SQL_SUCCESS )

        ThrowError(CODBCERR::eBindCol);
                if ( SQLFetch(m_hstmt) ==
SQL_ERROR )

        ThrowError(CODBCERR::eFetch);
                if
(strcmp(db_sp_version,sVersion))
                        throw new
CTPCC_ODBC_ERR( CTPCC_ODBC_ERR::ERR_WRONG_SP_VERSION
);

                SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmt);
        }

        // Bind parameters for each of the
transactions
        InitNewOrderParams();
        InitPaymentParams();
        InitOrderStatusParams();
        InitDeliveryParams();
        InitStockLevelParams();
}

CTPCC_ODBC::~CTPCC_ODBC( void )
{
        // note: descriptors are automatically
released when the connection is dropped
        SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtNewOrder);
        SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtPayment);
        SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtDelivery);
        SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtOrderStatus);
        SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtStockLevel);

        SQLDisconnect(m_hdbc);
        SQLFreeHandle(SQL_HANDLE_DBC, m_hdbc);
}

void CTPCC_ODBC::ThrowError( CODBCERR::ACTION eAction
)
{
        RETCODE             rc;
        SDWORD              lNativeError;
        char                szState[6];
        char
        szMsg[SQL_MAX_MESSAGE_LENGTH];
        char
        szTmp[6*SQL_MAX_MESSAGE_LENGTH];
        CODBCERR   *pODBCErr;
        // not allocated until needed (maybe never)

        pODBCErr = new CODBCERR();

        pODBCErr->m_NativeError = 0;
        pODBCErr->m_eAction = eAction;
        pODBCErr->m_bDeadLock = FALSE;

        szTmp[0] = 0;
        while (TRUE)
        {
                rc = SQLError(henv, m_hdbc,
m_hstmt, (BYTE *)&szState, &lNativeError,

(BYTE *)&szMsg, sizeof(szMsg), NULL);
                if (rc == SQL_NO_DATA)
                        break;

                // check for deadlock
                if (lNativeError == 1205 ||
(lNativeError == iErrOleDbProvider &&
                        strstr(szMsg,
sErrTimeoutExpired) != NULL))
                        pODBCErr->m_bDeadLock =
TRUE;

                // capture the (first) database
error
                if (pODBCErr->m_NativeError == 0
&& lNativeError != 0)
                        pODBCErr->m_NativeError
= lNativeError;

                // quit if there isn't enough
room to concatenate error text
                if ( (strlen(szMsg) + 2) >
(sizeof(szTmp) - strlen(szTmp)) )
                        break;

                // include line break after first
error msg
                if (szTmp[0] != 0)
                        strcat( szTmp, "\n");
                strcat( szTmp, szMsg );
        }

        if (pODBCErr->m_odbcerrstr != NULL)
        {
                delete [] pODBCErr->m_odbcerrstr;
                pODBCErr->m_odbcerrstr = NULL;
        }

        if (strlen(szTmp) > 0)
        {
                pODBCErr->m_odbcerrstr = new
char[ strlen(szTmp)+1 ];
                strcpy( pODBCErr->m_odbcerrstr,
szTmp );
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        }

        SQLFreeStmt(m_hstmt, SQL_CLOSE);
        throw pODBCErr;
}

void CTPCC_ODBC::InitStockLevelParams()
{
        if (   SQLAllocHandle(SQL_HANDLE_STMT,
m_hdbc, &m_hstmtStockLevel) != SQL_SUCCESS )

        ThrowError(CODBCERR::eAllocHandle);

        m_hstmt = m_hstmtStockLevel;

        int i = 0;
        if (   SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.StockLevel.w_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.StockLevel.d_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT, 0, 0,
&m_txn.StockLevel.threshold, 0, NULL) != SQL_SUCCESS
                )
                ThrowError(CODBCERR::eBindParam);

        if ( SQLBindCol(m_hstmt, 1, SQL_C_SLONG,
&m_txn.StockLevel.low_stock, 0, NULL) != SQL_SUCCESS
)
                ThrowError(CODBCERR::eBindCol);

        //Compose Stock Level statement
        _snwprintf(m_szStockLevelCommand,
sizeof(m_szStockLevelCommand)/sizeof(m_szStockLevelCo
mmand[0]),
                L"{call %stpcc_stocklevel
(?,?,?)}", m_szSPPrefix);
}

void CTPCC_ODBC::StockLevel()
{
        RETCODE             rc;
        int                         iTryCount =
0;

        m_hstmt = m_hstmtStockLevel;

        while (TRUE)
        {
                try
                {
                        rc =
SQLExecDirectW(m_hstmt, m_szStockLevelCommand,
SQL_NTS);
                        if (rc != SQL_SUCCESS
&& rc != SQL_SUCCESS_WITH_INFO)

        ThrowError(CODBCERR::eExecDirect);
                        if ( SQLFetch(m_hstmt)
== SQL_ERROR )

        ThrowError(CODBCERR::eFetch);

                        SQLFreeStmt(m_hstmt,
SQL_CLOSE);


        m_txn.StockLevel.exec_status_code = eOK;
                        break;
                }
                catch (CODBCERR *e)
                {
                        if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                throw;

                        // hit deadlock;
backoff for increasingly longer period
                        delete e;
                        Sleep(10 * iTryCount);
                }
        }

//      if (iTryCount)
//              throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_ODBC::InitNewOrderParams()
{
        if (   SQLAllocHandle(SQL_HANDLE_STMT,
m_hdbc, &m_hstmtNewOrder) != SQL_SUCCESS
                ||
SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc,
&m_hstmtNewOrderNoDuplicates) != SQL_SUCCESS
                ||
SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc,
&m_descNewOrderCols1) != SQL_SUCCESS
                ||
SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc,
&m_descNewOrderCols2) != SQL_SUCCESS
                ||
SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc,
&m_descNewOrderNoDuplicatesCols1) != SQL_SUCCESS
                ||
SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc,
&m_descNewOrderNoDuplicatesCols2) != SQL_SUCCESS
                )

        ThrowError(CODBCERR::eAllocHandle);

        m_hstmt = m_hstmtNewOrder;

        if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC, m_descNewOrderCols1,
SQL_IS_POINTER ) != SQL_SUCCESS )

        ThrowError(CODBCERR::eSetStmtAttr);
        int i = 0;
        if (   SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.NewOrder.w_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.NewOrder.d_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.NewOrder.c_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.NewOrder.o_ol_cnt, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.NewOrder.o_all_local, 0, NULL) != SQL_SUCCESS
                )
                ThrowError(CODBCERR::eBindParam);

        for (int j=0; j<MAX_OL_NEW_ORDER_ITEMS;
j++)
        {
                if (   SQLBindParameter(m_hstmt,
++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.NewOrder.OL[j].ol_i_id, 0, NULL) !=
SQL_SUCCESS
                        ||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT,
SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.NewOrder.OL[j].ol_supply_w_id, 0, NULL) !=
SQL_SUCCESS
                        ||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT,
SQL_C_SSHORT, SQL_SMALLINT, 0, 0,
&m_txn.NewOrder.OL[j].ol_quantity, 0, NULL) !=
SQL_SUCCESS
                        )

        ThrowError(CODBCERR::eBindParam);
        }

        // set the bind offset pointer
        if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_ROW_BIND_OFFSET_PTR, &m_BindOffset,
SQL_IS_POINTER ) != SQL_SUCCESS )

        ThrowError(CODBCERR::eSetStmtAttr);

        i = 0;
        if (   SQLBindCol(m_hstmt, ++i, SQL_C_CHAR,
&m_txn.NewOrder.OL[0].ol_i_name,
sizeof(m_txn.NewOrder.OL[0].ol_i_name), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_SSHORT, &m_txn.NewOrder.OL[0].ol_stock, 0,
NULL) != SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,   &m_txn.NewOrder.OL[0].ol_brand_generic,
sizeof(m_txn.NewOrder.OL[0].ol_brand_generic), NULL)
!= SQL_SUCCESS
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE, &m_txn.NewOrder.OL[0].ol_i_price, 0,
NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE, &m_txn.NewOrder.OL[0].ol_amount, 0,
NULL) != SQL_SUCCESS
                    )
                    ThrowError(CODBCERR::eBindCol);

          // associate the column bindings for the
second result set
          if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC, m_descNewOrderCols2,
SQL_IS_POINTER ) != SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

          i = 0;
          if (   SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE,    &m_txn.NewOrder.w_tax, 0, NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE,    &m_txn.NewOrder.d_tax, 0, NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG,     &m_txn.NewOrder.o_id, 0, NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,      &m_txn.NewOrder.c_last,
sizeof(m_txn.NewOrder.c_last), NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE,    &m_txn.NewOrder.c_discount, 0, NULL)
!= SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,      &m_txn.NewOrder.c_credit,
sizeof(m_txn.NewOrder.c_credit), NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_TYPE_TIMESTAMP, &m_txn.NewOrder.o_entry_d, 0,
NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG,     &m_no_commit_flag, 0, NULL) !=
SQL_SUCCESS
               )
                    ThrowError(CODBCERR::eBindCol);

          //Compose the New Order statement
          _snwprintf(m_szNewOrderCommand,
sizeof(m_szNewOrderCommand)/sizeof(m_szNewOrderComman
d[0]),
                       // 0         1         2
                       //
012345678901234567890123456789
                              L"{call
%stpcc_neworder(?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?
,?,?,?,?,?,?,"

          L"?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?
,?,?,?,?)}", m_szSPPrefix);

          m_iBeginNewOrderVariablePart = 29 +
wcslen(m_szSPPrefix);         // fixed part + prefix
part

          ////////////////////////////////////////
////////////////////////////////////////
          //
          //        Now initialize New Order that
works on no duplicate (w_id,i_id) pairs
          //        and returns one result set for
lineitem details.
          //
          //
          m_hstmt = m_hstmtNewOrderNoDuplicates;

          if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC,
m_descNewOrderNoDuplicatesCols1, SQL_IS_POINTER ) !=
SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

          i = 0;
          if (   SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.NewOrder.w_id, 0, NULL) != SQL_SUCCESS
                    || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.NewOrder.d_id, 0, NULL) != SQL_SUCCESS
                    || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.NewOrder.c_id, 0, NULL) != SQL_SUCCESS
                    || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.NewOrder.o_ol_cnt, 0, NULL) != SQL_SUCCESS
                    || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.NewOrder.o_all_local, 0, NULL) != SQL_SUCCESS
                    )
                    ThrowError(CODBCERR::eBindParam);

          for (int j=0; j<MAX_OL_NEW_ORDER_ITEMS;
j++)
          {
                    if (   SQLBindParameter(m_hstmt,
++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.NewOrder.OL[j].ol_i_id, 0, NULL) !=
SQL_SUCCESS
                              ||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT,
SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.NewOrder.OL[j].ol_supply_w_id, 0, NULL) !=
SQL_SUCCESS
                              ||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT,
SQL_C_SSHORT, SQL_SMALLINT, 0, 0,
&m_txn.NewOrder.OL[j].ol_quantity, 0, NULL) !=
SQL_SUCCESS
                              )

          ThrowError(CODBCERR::eBindParam);
          }

          // set row-wise binding
          if (   SQLSetStmtAttrW(m_hstmt,
SQL_ATTR_ROW_BIND_TYPE,
(SQLPOINTER)sizeof(m_txn.NewOrder.OL[0]),
SQL_IS_UINTEGER) != SQL_SUCCESS
                    || SQLSetStmtAttrW(m_hstmt,
SQL_ATTR_ROWS_FETCHED_PTR, &m_RowsFetched, 0) !=
SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

          i = 0;
          if (   SQLBindCol(m_hstmt, ++i, SQL_C_CHAR,
&m_txn.NewOrder.OL[0].ol_i_name,
sizeof(m_txn.NewOrder.OL[0].ol_i_name), NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_SSHORT, &m_txn.NewOrder.OL[0].ol_stock, 0,
NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,   &m_txn.NewOrder.OL[0].ol_brand_generic,
sizeof(m_txn.NewOrder.OL[0].ol_brand_generic), NULL)
!= SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE, &m_txn.NewOrder.OL[0].ol_i_price, 0,
NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE, &m_txn.NewOrder.OL[0].ol_amount, 0,
NULL) != SQL_SUCCESS
                    )
                    ThrowError(CODBCERR::eBindCol);

          // associate the column bindings for the
second result set
          if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC,
m_descNewOrderNoDuplicatesCols2, SQL_IS_POINTER ) !=
SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

          i = 0;
          if (   SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE,    &m_txn.NewOrder.w_tax, 0, NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE,    &m_txn.NewOrder.d_tax, 0, NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG,     &m_txn.NewOrder.o_id, 0, NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,      &m_txn.NewOrder.c_last,
sizeof(m_txn.NewOrder.c_last), NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE,    &m_txn.NewOrder.c_discount, 0, NULL)
!= SQL_SUCCESS
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,      &m_txn.NewOrder.c_credit,
sizeof(m_txn.NewOrder.c_credit), NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_TYPE_TIMESTAMP, &m_txn.NewOrder.o_entry_d, 0,
NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG,     &m_no_commit_flag, 0, NULL) !=
SQL_SUCCESS
               )
                    ThrowError(CODBCERR::eBindCol);

          //Compose the New Order statement
          _snwprintf(m_szNewOrderNoDuplicatesCommand,
sizeof(m_szNewOrderNoDuplicatesCommand)/sizeof(m_szNe
wOrderNoDuplicatesCommand[0]),
                              L"{call
%stpcc_neworder_new(?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?
,?,?,?,?,?,?,?,?,"

          L"?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?
,?,?,?,?)}", m_szSPPrefix);

          m_iBeginNewOrderNoDuplicatesVariablePart =
33 + wcslen(m_szSPPrefix);    // fixed part + prefix
part
}

//
//        Returns true if there are duplicate
(warehouse_id, item_id)
//        lineitem pairs in New Order input
parameters.
//
bool CTPCC_ODBC::DuplicatesInNewOrder()
{
          int i, j;

          for (i = 0; i < m_txn.NewOrder.o_ol_cnt;
++i)
          {
                    for (j = i+1; j<
m_txn.NewOrder.o_ol_cnt; ++j)
                    {
                              if
(m_txn.NewOrder.OL[i].ol_i_id ==
m_txn.NewOrder.OL[j].ol_i_id)
                              {
                                        return true;
                              }
                    }
          }

          return false;
}

void CTPCC_ODBC::NewOrder()
{
          if (m_bCallNoDuplicatesNewOrder)
          {
                    if (DuplicatesInNewOrder())
                    {
                              NewOrderDuplicates();
                    }
                    else
                    {
                              NewOrderNoDuplicates();
                    }
          }
          else
          {
                    NewOrderDuplicates();
          }
}

void CTPCC_ODBC::NewOrderDuplicates()
{
          int
          i;
          RETCODE                                   rc;
          int
          iTryCount = 0;

                                                    //
0         1         2

                                                    //
012345678901234567890123456789
          wchar_t
          szSqlTemplate[iMAX_SP_NAME_LEN];

                                                    //= L"{call
tpcc_neworder(?,?,?,?,?,"

                                                    //
L"?,?,?,?,?,?,?,?,?,?,?,?,?,?,"

                                                    //
L"?,?,?,?,?,?,?,?,?,?,?,?,?,?,"

                                                    //
L"?,?,?,?,?,?,?,?,?,?,?,?,?,?)}";

          m_hstmt = m_hstmtNewOrder;

          // associate the parameter and column
bindings for this transaction
          if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC, m_descNewOrderCols1,
SQL_IS_POINTER ) != SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

          // clip statement buffer based on number of
parameters
          // fixed part is 29 chars and variable part
is 6 chars per line item
          wcscpy(szSqlTemplate, m_szNewOrderCommand);
          i = m_iBeginNewOrderVariablePart +
m_txn.NewOrder.o_ol_cnt*6;
          wcscpy( &szSqlTemplate[i], L")}" );

          // check whether any order lines are for a
remote warehouse
          m_txn.NewOrder.o_all_local = 1;
          for (i = 0; i < m_txn.NewOrder.o_ol_cnt;
i++)
          {
                    if
(m_txn.NewOrder.OL[i].ol_supply_w_id !=
m_txn.NewOrder.w_id)
                    {

          m_txn.NewOrder.o_all_local = 0;  // at
least one remote warehouse
                              break;
                    }
          }

          while (TRUE)
          {
                    try
                    {
                              m_BindOffset = 0;
                              rc =
SQLExecDirectW(m_hstmt, szSqlTemplate, SQL_NTS);
                              if (rc != SQL_SUCCESS
&& rc != SQL_SUCCESS_WITH_INFO)

          ThrowError(CODBCERR::eExecDirect);

                              // Get order line
results

          m_txn.NewOrder.total_amount = 0;
                              for (i = 0;
i<m_txn.NewOrder.o_ol_cnt; i++)
                              {
                                        // set the
bind offset value...
                                        m_BindOffset
= i * sizeof(m_txn.NewOrder.OL[0]);

                                        if (
SQLFetch(m_hstmt) == SQL_ERROR)

          ThrowError(CODBCERR::eFetch);

                                        // move to
the next resultset
                                        if (
SQLMoreResults(m_hstmt) == SQL_ERROR )

          ThrowError(CODBCERR::eMoreResults);


          m_txn.NewOrder.total_amount +=
m_txn.NewOrder.OL[i].ol_amount;
                              }

                              // associate the column
bindings for the second result set
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        if ( SQLSetStmtAttrW(
m_hstmt, SQL_ATTR_APP_ROW_DESC, m_descNewOrderCols2,
SQL_IS_POINTER ) != SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

                        if ( SQLFetch(m_hstmt)
== SQL_ERROR)

          ThrowError(CODBCERR::eFetch);

                        SQLFreeStmt(m_hstmt,
SQL_CLOSE);

                        if (m_no_commit_flag ==
1)
                        {

          m_txn.NewOrder.total_amount *= ((1 +
m_txn.NewOrder.w_tax + m_txn.NewOrder.d_tax) * (1 -
m_txn.NewOrder.c_discount));

          m_txn.NewOrder.exec_status_code = eOK;
                        }
                        else

          m_txn.NewOrder.exec_status_code =
eInvalidItem;

                        break;
                }
                catch (CODBCERR *e)
                {
                        if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                throw;

                        // hit deadlock;
backoff for increasingly longer period
                        delete e;
                        Sleep(10 * iTryCount);
                }
          }

//        if (iTryCount)
//                throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

//
//        No lineitem duplicates optimized version.
//
void CTPCC_ODBC::NewOrderNoDuplicates()
{
          int
          i;
          RETCODE                                rc;
          int
          iTryCount = 0;

                                                  //
0         1         2         3

                                                  //
01234567890123456789012345678901234567890123
          wchar_t
          szSqlTemplate[iMAX_SP_NAME_LEN];

                                                  //= L"{call
tpcc_neworder_new(?,?,?,?,?,"

                                                  //
L"?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,"

                                                  //
L"?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,"

                                                  //
L"?,?,?,?,?,?,?,?,?,?,?,?,?,?,?)}";

          m_hstmt = m_hstmtNewOrderNoDuplicates;

          // associate the parameter and column
bindings for this transaction
          if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC,
m_descNewOrderNoDuplicatesCols1, SQL_IS_POINTER ) !=
SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

          // clip statement buffer based on number of
parameters
          // fixed part is 33 chars and variable part
is 6 chars per line item
          wcscpy(szSqlTemplate,
m_szNewOrderNoDuplicatesCommand);
          i =
m_iBeginNewOrderNoDuplicatesVariablePart +
m_txn.NewOrder.o_ol_cnt*6;
          wcscpy( &szSqlTemplate[i], L")}" );

          // check whether any order lines are for a
remote warehouse
          m_txn.NewOrder.o_all_local = 1;
          for (i = 0; i < m_txn.NewOrder.o_ol_cnt;
i++)
          {
                    if
(m_txn.NewOrder.OL[i].ol_supply_w_id !=
m_txn.NewOrder.w_id)
                    {

          m_txn.NewOrder.o_all_local = 0;  // at
least one remote warehouse
                              break;
                    }
          }

          while (TRUE)
          {
                    try
                    {
                              // configure block
cursor
                              if (
SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROW_ARRAY_SIZE,
(SQLPOINTER)1, 0) != SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

                              rc =
SQLExecDirectW(m_hstmt, szSqlTemplate, SQL_NTS);
                              if (rc != SQL_SUCCESS
&& rc != SQL_SUCCESS_WITH_INFO)

          ThrowError(CODBCERR::eExecDirect);

                              // configure block
cursor
                              if
(SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROW_ARRAY_SIZE,
(SQLPOINTER)MAX_OL_NEW_ORDER_ITEMS, 0) !=
SQL_SUCCESS)

          ThrowError(CODBCERR::eSetStmtAttr);

                              // Get order line
results
                              if ( SQLFetch(m_hstmt)
== SQL_ERROR)

          ThrowError(CODBCERR::eFetch);



          m_txn.NewOrder.total_amount = 0;
                              for (i = 0;
i<m_txn.NewOrder.o_ol_cnt; i++)
                              {


          m_txn.NewOrder.total_amount +=
m_txn.NewOrder.OL[i].ol_amount;
                              }

                              // associate the column
bindings for the second result set
                              if ( SQLSetStmtAttrW(
m_hstmt, SQL_ATTR_APP_ROW_DESC,
m_descNewOrderNoDuplicatesCols2, SQL_IS_POINTER ) !=
SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

                              // move to the next
resultset
                              if (
SQLMoreResults(m_hstmt) == SQL_ERROR )

          ThrowError(CODBCERR::eMoreResults);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        if ( SQLFetch(m_hstmt)
== SQL_ERROR)

          ThrowError(CODBCERR::eFetch);

                        SQLFreeStmt(m_hstmt,
SQL_CLOSE);

                        if (m_no_commit_flag ==
1)
                        {

          m_txn.NewOrder.total_amount *= ((1 +
m_txn.NewOrder.w_tax + m_txn.NewOrder.d_tax) * (1 -
m_txn.NewOrder.c_discount));

          m_txn.NewOrder.exec_status_code = eOK;
                        }
                        else

          m_txn.NewOrder.exec_status_code =
eInvalidItem;

                        break;
                }
                catch (CODBCERR *e)
                {
                        if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                throw;

                        // hit deadlock;
backoff for increasingly longer period
                        delete e;
                        Sleep(10 * iTryCount);
                }
          }

//        if (iTryCount)
//                throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_ODBC::InitPaymentParams()
{
          if (   SQLAllocHandle(SQL_HANDLE_STMT,
m_hdbc, &m_hstmtPayment) != SQL_SUCCESS )

          ThrowError(CODBCERR::eAllocHandle);

          m_hstmt = m_hstmtPayment;

          int i = 0;
          if (   SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.Payment.w_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.Payment.c_w_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_DOUBLE, SQL_NUMERIC, 6, 2,
&m_txn.Payment.h_amount, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.Payment.d_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.Payment.c_d_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.Payment.c_id, 0, NULL) != SQL_SUCCESS
                || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_CHAR, SQL_CHAR,
sizeof(m_txn.Payment.c_last), 0,
&m_txn.Payment.c_last, sizeof(m_txn.Payment.c_last),
NULL) != SQL_SUCCESS
                )
                ThrowError(CODBCERR::eBindParam);

          i = 0;
          if (   SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG,      &m_txn.Payment.c_id,             0,
NULL) != SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_last,
          sizeof(m_txn.Payment.c_last), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_TYPE_TIMESTAMP, &m_txn.Payment.h_date,
          0, NULL) != SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.w_street_1,
          sizeof(m_txn.Payment.w_street_1), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.w_street_2,
          sizeof(m_txn.Payment.w_street_2), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.w_city,
          sizeof(m_txn.Payment.w_city), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.w_state,
          sizeof(m_txn.Payment.w_state), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.w_zip,
          sizeof(m_txn.Payment.w_zip), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.d_street_1,
          sizeof(m_txn.Payment.d_street_1), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.d_street_2,
          sizeof(m_txn.Payment.d_street_2), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.d_city,
          sizeof(m_txn.Payment.d_city), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.d_state,
          sizeof(m_txn.Payment.d_state), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.d_zip,
          sizeof(m_txn.Payment.d_zip), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_first,
          sizeof(m_txn.Payment.c_first), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_middle,
          sizeof(m_txn.Payment.c_middle), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_street_1,
          sizeof(m_txn.Payment.c_street_1), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_street_2,
          sizeof(m_txn.Payment.c_street_2), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_city,
          sizeof(m_txn.Payment.c_city), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_state,
          sizeof(m_txn.Payment.c_state), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_zip,
          sizeof(m_txn.Payment.c_zip), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_phone,
          sizeof(m_txn.Payment.c_phone), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_TYPE_TIMESTAMP, &m_txn.Payment.c_since,
          0, NULL) != SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_credit,
          sizeof(m_txn.Payment.c_credit), NULL) !=
SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE,     &m_txn.Payment.c_credit_lim,0, NULL)
!= SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE,     &m_txn.Payment.c_discount,       0,
NULL) != SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE,     &m_txn.Payment.c_balance,        0,
NULL) != SQL_SUCCESS
                || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR,       &m_txn.Payment.c_data,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          sizeof(m_txn.Payment.c_data), NULL) !=
SQL_SUCCESS
                    )
                    ThrowError(CODBCERR::eBindCol);

          //Compose Payment statement
          _snwprintf(m_szPaymentCommand,
sizeof(m_szPaymentCommand)/sizeof(m_szPaymentCommand[
0]),
                    L"{call %stpcc_payment
(?,?,?,?,?,?,?)}", m_szSPPrefix);
}

void CTPCC_ODBC::Payment()
{
          RETCODE             rc;
          int                           iTryCount =
0;

          m_hstmt = m_hstmtPayment;

          if (m_txn.Payment.c_id != 0)
                    m_txn.Payment.c_last[0] = 0;

          while (TRUE)
          {
                    try
                    {
                              rc =
SQLExecDirectW(m_hstmt, m_szPaymentCommand, SQL_NTS);
                              if (rc != SQL_SUCCESS
&& rc != SQL_SUCCESS_WITH_INFO)

          ThrowError(CODBCERR::eExecDirect);

                              if ( SQLFetch(m_hstmt)
== SQL_ERROR)

          ThrowError(CODBCERR::eFetch);

                              SQLFreeStmt(m_hstmt,
SQL_CLOSE);

                              if (m_txn.Payment.c_id
== 0)
                                        throw new
CTPCC_ODBC_ERR( CTPCC_ODBC_ERR::ERR_INVALID_CUST );
                              else

          m_txn.Payment.exec_status_code = eOK;

                              break;
                    }
                    catch (CODBCERR *e)
                    {
                              if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                        throw;

                              // hit deadlock;
backoff for increasingly longer period
                              delete e;
                              Sleep(10 * iTryCount);
                    }
          }

//        if (iTryCount)
//                  throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_ODBC::InitOrderStatusParams()
{
          if (   SQLAllocHandle(SQL_HANDLE_STMT,
m_hdbc, &m_hstmtOrderStatus) != SQL_SUCCESS
                    ||
SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc,
&m_descOrderStatusCols1) != SQL_SUCCESS
                    ||
SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc,
&m_descOrderStatusCols2) != SQL_SUCCESS
                    )

          ThrowError(CODBCERR::eAllocHandle);

          m_hstmt = m_hstmtOrderStatus;

          if (   SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC, m_descOrderStatusCols1,
SQL_IS_POINTER ) != SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

          int i = 0;
          if (   SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.OrderStatus.w_id, 0, NULL) != SQL_SUCCESS
                    || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT, 0, 0,
&m_txn.OrderStatus.d_id, 0, NULL) != SQL_SUCCESS
                    || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.OrderStatus.c_id, 0, NULL) != SQL_SUCCESS
                    || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_CHAR, SQL_CHAR,
sizeof(m_txn.OrderStatus.c_last), 0,
&m_txn.OrderStatus.c_last,
sizeof(m_txn.OrderStatus.c_last), NULL) !=
SQL_SUCCESS
                    )
                    ThrowError(CODBCERR::eBindParam);

          // configure block cursor
          if (   SQLSetStmtAttrW(m_hstmt,
SQL_ATTR_ROW_BIND_TYPE,
(SQLPOINTER)sizeof(m_txn.OrderStatus.OL[0]), 0) !=
SQL_SUCCESS
                    || SQLSetStmtAttrW(m_hstmt,
SQL_ATTR_ROWS_FETCHED_PTR, &m_RowsFetched, 0) !=
SQL_SUCCESS
                    )

          ThrowError(CODBCERR::eSetStmtAttr);

          i = 0;
          if (   SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG, &m_txn.OrderStatus.OL[0].ol_supply_w_id,
0, NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG, &m_txn.OrderStatus.OL[0].ol_i_id, 0,
NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_SSHORT, &m_txn.OrderStatus.OL[0].ol_quantity,
0, NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE, &m_txn.OrderStatus.OL[0].ol_amount, 0,
NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_TYPE_TIMESTAMP,
&m_txn.OrderStatus.OL[0].ol_delivery_d, 0, NULL) !=
SQL_SUCCESS
                    )
                    ThrowError(CODBCERR::eBindCol);


          if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC, m_descOrderStatusCols2,
SQL_IS_POINTER ) != SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

          i = 0;
          if (   SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG, &m_txn.OrderStatus.c_id, 0, NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR, &m_txn.OrderStatus.c_last,
sizeof(m_txn.OrderStatus.c_last), NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR, &m_txn.OrderStatus.c_first,
sizeof(m_txn.OrderStatus.c_first), NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR, &m_txn.OrderStatus.c_middle,
sizeof(m_txn.OrderStatus.c_middle), NULL) !=
SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_TYPE_TIMESTAMP, &m_txn.OrderStatus.o_entry_d,
0, NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_SSHORT, &m_txn.OrderStatus.o_carrier_id, 0,
NULL) != SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE, &m_txn.OrderStatus.c_balance, 0, NULL)
!= SQL_SUCCESS
                    || SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG, &m_txn.OrderStatus.o_id, 0, NULL) !=
SQL_SUCCESS
                    )
                    ThrowError(CODBCERR::eBindCol);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          //Compose Order Status statement
          _snwprintf(m_szOrderStatusCommand,
sizeof(m_szOrderStatusCommand)/sizeof(m_szOrderStatus
Command[0]),
                    L"{call %stpcc_orderstatus
(?,?,?,?)}", m_szSPPrefix);
}

void CTPCC_ODBC::OrderStatus()
{
          int
                    iTryCount = 0;
          RETCODE
          rc;

          m_hstmt = m_hstmtOrderStatus;

          if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC, m_descOrderStatusCols1,
SQL_IS_POINTER ) != SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

          if (m_txn.OrderStatus.c_id != 0)
                    m_txn.OrderStatus.c_last[0] = 0;

          while (TRUE)
          {
                    try
                    {
                              // configure block
cursor
                              if (
SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROW_ARRAY_SIZE,
(SQLPOINTER)1, 0) != SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

                              rc =
SQLExecDirectW(m_hstmt, m_szOrderStatusCommand,
SQL_NTS);
                              if ( ((rc ==
SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0)) ||
(rc == SQL_ERROR) )

          ThrowError(CODBCERR::eExecDirect);

                              // configure block
cursor
                              if (
SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROW_ARRAY_SIZE,
(SQLPOINTER)MAX_OL_ORDER_STATUS_ITEMS, 0) !=
SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

                              rc = SQLFetchScroll(
m_hstmt, SQL_FETCH_NEXT, 0 );
                              if ( ((rc ==
SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0)) ||
(rc == SQL_ERROR) )

          ThrowError(CODBCERR::eFetchScroll);


          m_txn.OrderStatus.o_ol_cnt =
(short)m_RowsFetched;

                              if
(m_txn.OrderStatus.o_ol_cnt != 0)
                              {
                                        if (
SQLSetStmtAttrW( m_hstmt, SQL_ATTR_APP_ROW_DESC,
m_descOrderStatusCols2, SQL_IS_POINTER ) !=
SQL_SUCCESS )

          ThrowError(CODBCERR::eSetStmtAttr);

                                        if (
SQLMoreResults(m_hstmt) == SQL_ERROR )

          ThrowError(CODBCERR::eMoreResults);

                                        if ( (rc =
SQLFetch(m_hstmt)) == SQL_ERROR)

          ThrowError(CODBCERR::eFetch);
                              }

                              SQLFreeStmt(m_hstmt,
SQL_CLOSE);

                              if
(m_txn.OrderStatus.o_ol_cnt == 0)
                                        throw new
CTPCC_ODBC_ERR( CTPCC_ODBC_ERR::ERR_NO_SUCH_ORDER );
                              else if
(m_txn.OrderStatus.c_id == 0 &&
m_txn.OrderStatus.c_last[0] == 0)
                                        throw new
CTPCC_ODBC_ERR( CTPCC_ODBC_ERR::ERR_INVALID_CUST );
                              else

          m_txn.OrderStatus.exec_status_code = eOK;

                              break;
                    }
                    catch (CODBCERR *e)
                    {
                              if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                        throw;

                              // hit deadlock;
backoff for increasingly longer period
                              delete e;
                              Sleep(10 * iTryCount);
                    }
          }

//        if (iTryCount)
//                  throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_ODBC::InitDeliveryParams()
{
          if (   SQLAllocHandle(SQL_HANDLE_STMT,
m_hdbc, &m_hstmtDelivery) != SQL_SUCCESS )

          ThrowError(CODBCERR::eAllocHandle);

          m_hstmt = m_hstmtDelivery;

          int i = 0;
          if (   SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER, 0, 0,
&m_txn.Delivery.w_id, 0, NULL) != SQL_SUCCESS
                    || SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT, 0, 0,
&m_txn.Delivery.o_carrier_id, 0, NULL) != SQL_SUCCESS
                    )
                    ThrowError(CODBCERR::eBindParam);

          for (i=0;i<10;i++)
          {
                    if ( SQLBindCol(m_hstmt,
(UWORD)(i+1), SQL_C_SLONG, &m_txn.Delivery.o_id[i],
0, NULL) != SQL_SUCCESS )

          ThrowError(CODBCERR::eBindCol);
          }

          //Compose Delivery statement
          _snwprintf(m_szDeliveryCommand,
sizeof(m_szDeliveryCommand)/sizeof(m_szDeliveryComman
d[0]),
                    L"{call %stpcc_delivery (?,?)}",
m_szSPPrefix);
}

void CTPCC_ODBC::Delivery()
{
          RETCODE             rc;
          int                           iTryCount =
0;

          m_hstmt = m_hstmtDelivery;

          while (TRUE)
          {
                    try
                    {
                              rc =
SQLExecDirectW(m_hstmt, m_szDeliveryCommand,
SQL_NTS);
                              if (rc != SQL_SUCCESS
&& rc != SQL_SUCCESS_WITH_INFO)

          ThrowError(CODBCERR::eExecDirect);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        if ( SQLFetch(m_hstmt)
== SQL_ERROR )

          ThrowError(CODBCERR::eFetch);

                        SQLFreeStmt(m_hstmt,
SQL_CLOSE);

          m_txn.Delivery.exec_status_code = eOK;
                        break;
                }
                catch (CODBCERR *e)
                {
                        if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                throw;

                        // hit deadlock;
backoff for increasingly longer period
                        delete e;
                        Sleep(10 * iTryCount);
                }
          }

//        if (iTryCount)
//                throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}
```

tpcc_odbc.h

```
/*        FILE:                 TPCC_ODBC.H
 *                              Microsoft
TPC-C Kit Ver. 4.20.000
 *                              Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                              Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Header file for TPC-C txn class
implementation.
 *
 *  Change history:
 *                4.20.000 - updated rev number to
match kit
 */
#pragma once

// need to declare functions for import, unless
define has already been created
// by the DLL's .cpp module for export.
#ifndef DllDecl
#define DllDecl  __declspec( dllimport )
#endif

#define iMAX_SP_NAME_LEN 256  //maximum length of a
stored procedure name with parameters

class CODBCERR : public CBaseErr
{
          public:
                    enum ACTION
                    {
                              eNone,
                              eUnknown,
                              eAllocConn,
                    // error from SQLAllocConnect
                              eAllocHandle,
          // error from SQLAllocHandle
                              eConnOption,
          // error from SQLSetConnectOption
                              eConnect,
          // error from SQLConnect
                              eAllocStmt,
                    // error from SQLAllocStmt
                              eExecDirect,
          // error from SQLExecDirect
                              eBindParam,
                    // error from SQLBindParameter
                              eBindCol,
          // error from SQLBindCol
                              eFetch,
                    // error from SQLFetch
                              eFetchScroll,
          // error from SQLFetchScroll
                              eMoreResults,
          // error from SQLMoreResults
                              ePrepare,
          // error from SQLPrepare
                              eExecute,
          // error from SQLExecute
                              eSetEnvAttr,
          // error from SQLSetEnvAttr
                              eSetStmtAttr
          // error from SQLSetStmtAttr
                    };

                    CODBCERR(void)
                    {
                              m_eAction = eNone;
                              m_NativeError = 0;
                              m_bDeadLock = FALSE;
                              m_odbcerrstr = NULL;
                    };

                    ~CODBCERR()
                    {
                              if (m_odbcerrstr !=
NULL)
                                        delete []
m_odbcerrstr;
                    };

                    ACTION    m_eAction;
                    int
          m_NativeError;
                    BOOL      m_bDeadLock;
                    char   *m_odbcerrstr;

                    int                 ErrorType()
{return ERR_TYPE_ODBC;};
                    char*     ErrorTypeStr() { return
"ODBC"; }
                    int                 ErrorNum()
{return m_NativeError;};
                    char*     ErrorText() {return
m_odbcerrstr;};
                    int                 ErrorAction()
{ return (int)m_eAction; }
};

class CTPCC_ODBC_ERR : public CBaseErr
{
          public:
                    enum TPCC_ODBC_ERRS
                    {
                              ERR_WRONG_SP_VERSION =
1,        // "Wrong version of stored procs on
database server"
                              ERR_INVALID_CUST,
                    // "Invalid Customer id,name."
                              ERR_NO_SUCH_ORDER,
                    // "No orders found for
customer."
                              ERR_RETRIED_TRANS,
                    // "Retries before transaction
succeeded."
                    };

                    CTPCC_ODBC_ERR( int iErr ) {
m_errno = iErr; m_iTryCount = 0; };

                    CTPCC_ODBC_ERR( int iErr, int
iTryCount ) { m_errno = iErr; m_iTryCount =
iTryCount; };

                    int                 m_errno;
                    int                 m_iTryCount;

                    int                 ErrorType()
{return ERR_TYPE_TPCC_ODBC;};
                    char*     ErrorTypeStr() { return
"TPCC ODBC"; }
                    int                 ErrorNum()
{return m_errno;};

                    char*     ErrorText();
};

class DllDecl CTPCC_ODBC : public CTPCC_BASE
{
          private:
                    // declare variables and private
functions here...
                    BOOL                m_bDeadlock;
                    // transaction was selected as
deadlock victim
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                int
        m_MaxRetries;                // retry
count on deadlock

                SQLHENV              m_henv;
                                // ODBC environment
handle
                SQLHDBC              m_hdbc;
                SQLHSTMT  m_hstmt;
        // the current hstmt

                SQLHSTMT  m_hstmtNewOrder;
                SQLHSTMT
        m_hstmtNewOrderNoDuplicates;  // NewOrder
with one result set for lineitem details
                SQLHSTMT  m_hstmtPayment;
                SQLHSTMT  m_hstmtDelivery;
                SQLHSTMT  m_hstmtOrderStatus;
                SQLHSTMT  m_hstmtStockLevel;

                SQLHDESC  m_descNewOrderCols1;
                SQLHDESC  m_descNewOrderCols2;
                SQLHDESC
        m_descNewOrderNoDuplicatesCols1;        //
NewOrder with one result set for lineitem details
                SQLHDESC
        m_descNewOrderNoDuplicatesCols2;        //
NewOrder with one result set for lineitem details
                SQLHDESC  m_descOrderStatusCols1;
                SQLHDESC  m_descOrderStatusCols2;

                wchar_t
        m_szSPPrefix[32];   // stored procedures
prefix

                wchar_t
        m_szNewOrderCommand[iMAX_SP_NAME_LEN];
                wchar_t
        m_szNewOrderNoDuplicatesCommand[iMAX_SP_NAM
E_LEN];
                int
        m_iBeginNewOrderVariablePart; // begining
of the variable part in NewOrder statement
                int
        m_iBeginNewOrderNoDuplicatesVariablePart;
        // begining of the variable part in
NewOrder statement
                wchar_t
        m_szPaymentCommand[iMAX_SP_NAME_LEN];
                wchar_t
        m_szDeliveryCommand[iMAX_SP_NAME_LEN];
                wchar_t
        m_szOrderStatusCommand[iMAX_SP_NAME_LEN];
                wchar_t
        m_szStockLevelCommand[iMAX_SP_NAME_LEN];

                // new-order specific fields
                SQLUINTEGER          m_BindOffset;
                SQLUINTEGER
        m_RowsFetched;

                int
        m_no_commit_flag;

                // tpcc_neworder_new flag
                BOOL
        m_bCallNoDuplicatesNewOrder;

                void ThrowError( CODBCERR::ACTION
eAction );

                void InitNewOrderParams();
                void InitPaymentParams();
                void InitDeliveryParams();
                void InitStockLevelParams();
                void InitOrderStatusParams();

                union
                {
                        NEW_ORDER_DATA
        NewOrder;
                        PAYMENT_DATA
        Payment;
                        DELIVERY_DATA
        Delivery;
                        STOCK_LEVEL_DATA
        StockLevel;
                        ORDER_STATUS_DATA
        OrderStatus;
                }
        m_txn;

                bool DuplicatesInNewOrder();
                void NewOrderDuplicates();
                void NewOrderNoDuplicates();

        public:
                CTPCC_ODBC(          LPCSTR
szServer, LPCSTR szUser, LPCSTR szPassword,

        LPCSTR szHost, LPCSTR szDatabase,

        LPCWSTR szSPPrefix, BOOL
bCallNoDuplicatesNewOrder);
                ~CTPCC_ODBC(void);

                inline PNEW_ORDER_DATA
        BuffAddr_NewOrder()          { return
&m_txn.NewOrder;    };
                inline PPAYMENT_DATA
        BuffAddr_Payment()           { return
&m_txn.Payment;     };
                inline PDELIVERY_DATA
        BuffAddr_Delivery()          { return
&m_txn.Delivery;    };
                inline PSTOCK_LEVEL_DATA
        BuffAddr_StockLevel()        { return
&m_txn.StockLevel;  };
                inline PORDER_STATUS_DATA
        BuffAddr_OrderStatus()       { return
&m_txn.OrderStatus; };
                void NewOrder                ();
                void Payment                 ();
                void Delivery                ();
                void StockLevel              ();
                void OrderStatus    ();

};


// wrapper routine for class constructor
extern "C" DllDecl CTPCC_ODBC* CTPCC_ODBC_new
          (         LPCSTR szServer, LPCSTR szUser,
LPCSTR szPassword,
                LPCSTR szHost, LPCSTR szDatabase,
                LPCWSTR szSPPrefix, BOOL
bCallNoDuplicatesNewOrder );

typedef CTPCC_ODBC* (TYPE_CTPCC_ODBC)(LPCSTR, LPCSTR,
LPCSTR, LPCSTR, LPCSTR, LPCWSTR, BOOL);
```

tpcc_tux.cpp

```
/*        FILE:                TPCC_TUX.CPP
 *                                        Microsoft
TPC-C Kit Ver. 4.20.000
 *                                        Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                                        Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Implementation for TPC-C Tuxedo
class.
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                4.20.000 - updated rev number to
match kit
 */

#include <windows.h>
#include <process.h>
#include <stdio.h>
#include <stdarg.h>
#include <malloc.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <io.h>
#include <assert.h>

#include <tmenv.h>
#include <xa.h>
#include <atmi.h>

#ifdef ICECAP
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
// for IceCAP profiling
#include <icapexp.h>
#endif

// need to declare functions for export
#define DllDecl  __declspec( dllexport )

#include "..\..\common\src\trans.h"
          //tpckit transaction header contains
definations of structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_tux.h"
                    // interface to Tuxedo libraries

static TPINIT
          *tpinf;
static DWORD
          TLSIsTpInitedKey;
static CRITICAL_SECTION
          TpCriticalSection;


BOOL APIENTRY DllMain(HMODULE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{
          switch( ul_reason_for_call )
          {
                    case DLL_PROCESS_ATTACH:

          DisableThreadLibraryCalls(hModule);

                              // create thread local
storage to determine Tuxedo initialization per
thread.
                              // it really should be
possible to do this in the DLL_THREAD_ATTACH call,
but
                              // Ed says he could not
get it to work.
                              // assumption:value
init'd to 0
                              TLSIsTpInitedKey =
TlsAlloc();

                              if ((tpinf = (TPINIT
*)tpalloc("TPINIT", NULL, sizeof(TPINIT))) == NULL)
                              {
                                        // int TpRc =
tperrno;
                                        return FALSE;
                              }
                              tpinf->flags |=
TPMULTICONTEXTS;


          InitializeCriticalSection(&TpCriticalSectio
n);
                              break;

                    case DLL_PROCESS_DETACH:

          TlsFree(TLSIsTpInitedKey);

          DeleteCriticalSection(&TpCriticalSection);
                              break;

                    default:
                              /* nothing */;
          }
          return TRUE;
}

static void ThrTpInit()
{
          static int num_tpinits=0;
          int iRc, TpRc;

          // has this thread been initialized?  check
thread local storage
          if(!TlsGetValue(TLSIsTpInitedKey))
          {

          EnterCriticalSection(&TpCriticalSection);
                    itoa(++num_tpinits, tpinf-
>cltname, 10);

                    iRc = tpinit(tpinf);
                    TpRc = tperrno;

          LeaveCriticalSection(&TpCriticalSection);

                    if (iRc < 0)
                              throw new CTUXERR(
tperrno );

                    int value = 1;

          TlsSetValue(TLSIsTpInitedKey,&value);
          }
}

// wrapper routine for class constructor
__declspec(dllexport) CTPCC_TUXEDO*
CTPCC_TUXEDO_new()
{
          return new CTPCC_TUXEDO();
}

CTPCC_TUXEDO::CTPCC_TUXEDO()
{
          //        Add initialization of Tuxedo
Structures
          m_txn = (TUX_DATA *)tpalloc("CARRAY", NULL,
sizeof(TUX_DATA));
          if (m_txn == NULL)
                    throw new CTUXERR( tperrno );
}

CTPCC_TUXEDO::~CTPCC_TUXEDO()
{
          // free the data structure allocated with
tpalloc
          tpfree((char *)m_txn);
}

void CTPCC_TUXEDO::NewOrder()
{
          long      ilen, *olen;

          ThrTpInit();

          ilen = sizeof(TUX_DATA);
          olen = &ilen;

          if (tpcall("NEWORDER", (char *)m_txn, ilen,
(char **)&m_txn, (long *)olen, TPSIGRSTRT) == -1)
                    throw new CTUXERR( tperrno );

          if ( m_txn->ErrorType != ERR_SUCCESS )
                    throw new CTUXERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_TUXEDO::Payment()
{
          long      ilen, *olen;

          ThrTpInit();

          ilen = sizeof(TUX_DATA);
          olen = &ilen;

          if (tpcall("PAYMENT", (char *)m_txn, ilen,
(char **)&m_txn, (long *)olen, TPSIGRSTRT) == -1)
                    throw new CTUXERR( tperrno );

          if ( m_txn->ErrorType != ERR_SUCCESS )
                    throw new CTUXERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_TUXEDO::Delivery()
{
          int                iRc;
          long      ilen, *olen;

          // Note: Delivery txn code in the tuxedo
server does not implement logging of the delivery
          //       txn results, so cannot be used as
is to run an auditable TPC-C result.  For that
          //       reason, delivery txns should not
be done via tuxedo.
          //       The code is included for
completeness.
          m_txn->u.Delivery.exec_status_code =
eDeliveryFailed;
          return;

          //  normal path...

          ThrTpInit();
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
	GetLocalTime(&m_txn-
>u.Delivery.queue_time);

	ilen = sizeof(TUX_DATA);
	olen = &ilen;

	if ((iRc = tpacall("DELIVERY", (char
*)m_txn, ilen, TPNOREPLY)) == -1)
	{
		int TpRc = tperrno;
		m_txn-
>u.Delivery.exec_status_code = eDeliveryFailed;
	}
	else
		m_txn-
>u.Delivery.exec_status_code = eOK;

}

void CTPCC_TUXEDO::StockLevel()
{
	long	ilen, *olen;

	ThrTpInit();

	ilen = sizeof(TUX_DATA);
	olen = &ilen;

	if (tpcall("STOCKLEVEL", (char *)m_txn,
ilen, (char **)&m_txn, (long *)olen, TPSIGRSTRT) == -
1)
		throw new CTUXERR( tperrno );

	if ( m_txn->ErrorType != ERR_SUCCESS )
		throw new CTUXERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_TUXEDO::OrderStatus()
{
	long	ilen, *olen;

	ThrTpInit();

	ilen = sizeof(TUX_DATA);
	olen = &ilen;

	if (tpcall("ORDERSTATUS", (char *)m_txn,
ilen, (char **)&m_txn, (long *)olen, TPSIGRSTRT) == -
1)
		throw new CTUXERR( tperrno );

	if ( m_txn->ErrorType != ERR_SUCCESS )
		throw new CTUXERR( m_txn-
>ErrorType, m_txn->error );
}

char *CTUXERR::ErrorText()
{
	if (m_iErrorType == 0)
	{
		if (m_errno == TPEOS)
			sprintf( m_szErrorText,
"Error: TUXEDO error # %d, OS error # %d", m_errno,
m_iError );
		else
			sprintf( m_szErrorText,
"Error: TUXEDO error # %d", m_errno );
	}
	else
		sprintf( m_szErrorText, "Error:
Class %d, error # %d", m_iErrorType, m_iError );
	return m_szErrorText;
};
```

tpcc_tux.h

```
/*	FILE:		TPCC_TUX.H
 *					Microsoft
TPC-C Kit Ver. 4.20.000
 *					Copyright
Microsoft, 1999
 *		All Rights Reserved
 *
 *					Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *	PURPOSE:  Header file for TPC-C Tuxedo
class implementation.
 *
 *  Change history:
 *		4.20.000 - updated rev number to
match kit
 */

#pragma once

// need to declare functions for import, unless
define has already been created
// by the DLL's .cpp module for export.
#ifndef DllDecl
#define DllDecl  __declspec( dllimport )
#endif

class DllDecl CTPCC_TUXEDO : public CTPCC_BASE
{
	private:
		struct TUX_DATA
		{
			int
			ErrorType;
			int
			error;

			union
			{

	NEW_ORDER_DATA		NewOrder;
					PAYMENT_DATA
		Payment;
					DELIVERY_DATA
		Delivery;

	STOCK_LEVEL_DATA	StockLevel;

	ORDER_STATUS_DATA	OrderStatus;
					} u;
		} *m_txn;

	public:
		CTPCC_TUXEDO();
		~CTPCC_TUXEDO(void);

		inline PNEW_ORDER_DATA
	BuffAddr_NewOrder()		{ return
&m_txn->u.NewOrder;	};
		inline PPAYMENT_DATA
	BuffAddr_Payment()		{ return
&m_txn->u.Payment;	};
		inline PDELIVERY_DATA
	BuffAddr_Delivery()		{ return
&m_txn->u.Delivery;	};
		inline PSTOCK_LEVEL_DATA
	BuffAddr_StockLevel()		{ return
&m_txn->u.StockLevel;  };
		inline PORDER_STATUS_DATA
	BuffAddr_OrderStatus()		{ return
&m_txn->u.OrderStatus; };

		void NewOrder		();
		void Payment		();
		void Delivery		();
		void StockLevel		();
		void OrderStatus	();

};

class CTUXERR : public CBaseErr
{
	private:

		// TODO: should use the sz_Msg
field of the base class instead
		char m_szErrorText[64];

	public:
		// use this interface for genuine
Tuxedo errors
		CTUXERR( int iErr )
		{
			m_errno = iErr;
			m_iErrorType = 0;
			m_iError =
GetLastError();	// only meaningful if m_errno ==
TPEOS
		};

		// use this interface to
impersonate a non-Tuxedo error type
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    CTUXERR( int iErrorType, int
iError )
                    {
                              m_iErrorType =
iErrorType;
                              m_iError = iError;
                              m_errno = 0;
                    }

                    int                 m_errno;
                    int                 m_iErrorType;
                    int                 m_iError;

                    // A CTUXERR class can
impersonate another class, which happens if the error
                    // was not actually a Tuxedo
error, but was simply transmitted back via Tuxedo.
                    int ErrorType()
                    {
                              if (m_iErrorType == 0)
                                        return
ERR_TYPE_TUXEDO;
                              else
                                        return
m_iErrorType;
                    }

                    int ErrorNum() {return m_errno;};
                    char *ErrorText();
};

// wrapper routine for class constructor
extern "C" __declspec(dllexport) CTPCC_TUXEDO*
CTPCC_TUXEDO_new();

typedef CTPCC_TUXEDO* (TYPE_CTPCC_TUXEDO)();
```

tpcc_type.h

```
/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifndef tpcc_types_v1_0_included
#define tpcc_types_v1_0_included
#ifndef IDLBASE_H
#include <dce\idlbase.h>
#endif

#ifdef __cplusplus
    extern "C" {
#endif

#ifndef nbase_v0_0_included
#include "dce\nbase.h"
#endif
#define NAME_LENGTH (32)
#define NEWO_INTERFACE (1)
#define PAYMENT_INTERFACE (2)
#define ORDER_STAT_INTERFACE (4)
#define DELIVERY_INTERFACE (8)
#define STOCK_INTERFACE (16)
#define ONLINE_INTERFACES (23)
#define ALL_INTERFACE (65535)
#define NEWO_TRANS (1)
#define PAYMENT_TRANS (2)
#define ORDER_STAT_TRANS (3)
#define DELIVERY_TRANS (4)
#define STOCK_TRANS (5)
#define MAX_TRAN_TYPE (5)
#define TPCC_SUCCESS (0)
#define TRPC_ERROR (1)
#define INVALID_NEWO (100)
typedef struct  {
idl_long_int sec;
idl_long_int usec;
} time_type;
typedef struct  {
idl_short_int returncode;
idl_short_int stats;
time_type srv_start;
time_type srv_end;
time_type clnt_start;
time_type clnt_end;
} data_header;
typedef struct  {
idl_long_int first_wh;
idl_long_int last_wh;
idl_long_int server_id;
} dbInfo_data_t;

#ifdef __cplusplus
    }

#endif
#endif
```

trans.h

```
/*        FILE:                   TRANS.H
 *                                                Microsoft
TPC-C Kit Ver. 4.42.000
 *                                                Copyright
Microsoft, 2002
 *             All Rights Reserved
 *
 *                                                Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Header file for TPC-C structure
templates.
 *
 *  Change history:
 *                 4.42.000 - changed w_id fields
from short to long to support >32K warehouses
 *                 4.20.000 - updated rev number to
match kit
 */
#pragma once

// String length constants
#define SERVER_NAME_LEN            20
#define DATABASE_NAME_LEN          20
#define USER_NAME_LEN              20
#define PASSWORD_LEN               20
#define TABLE_NAME_LEN             20
#define I_DATA_LEN                 50
#define I_NAME_LEN                 24
#define BRAND_LEN                   1
#define LAST_NAME_LEN              16
#define W_NAME_LEN                 10
#define ADDRESS_LEN                20
#define STATE_LEN                   2
#define ZIP_LEN                     9
#define S_DIST_LEN                 24
#define S_DATA_LEN                 50
#define D_NAME_LEN                 10
#define FIRST_NAME_LEN             16
#define MIDDLE_NAME_LEN             2
#define PHONE_LEN                  16
#define DATETIME_LEN               30
#define CREDIT_LEN                  2
#define C_DATA_LEN                250
#define H_DATA_LEN                 24
#define DIST_INFO_LEN              24
#define MAX_OL_NEW_ORDER_ITEMS     15
#define MAX_OL_ORDER_STATUS_ITEMS  15
#define STATUS_LEN                 25
#define OL_DIST_INFO_LEN                    24

// TIMESTAMP_STRUCT is provided by the ODBC header
file sqltypes.h, but is not available
// when compiling with dblib, so redefined here.
Note: we are using the symbol "__SQLTYPES"
// (declared in sqltypes.h) as a way to determine if
TIMESTAMP_STRUCT has been declared.
#ifndef __SQLTYPES
          typedef struct
          {
                              short
          /* SQLSMALLINT */   year;
                              unsigned short      /*
SQLUSMALLINT */     month;
                              unsigned short      /*
SQLUSMALLINT */     day;
                              unsigned short      /*
SQLUSMALLINT */     hour;
                              unsigned short      /*
SQLUSMALLINT */     minute;
                              unsigned short      /*
SQLUSMALLINT */     second;
                              unsigned long       /*
SQLUINTEGER */      fraction;
          } TIMESTAMP_STRUCT;
#endif

// possible values for exec_status_code after
transaction completes
enum EXEC_STATUS
{
          eOK,                          // 0
          "Transaction commited."
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        eInvalidItem,       // 1      "Item number
is not valid."
        eDeliveryFailed     // 2      "Delivery
Post Failed."
};

// transaction structures
typedef struct
{
        // input params
        long
        ol_supply_w_id;
        long
        ol_i_id;
        short
        ol_quantity;

        // output params
        char
        ol_i_name[I_NAME_LEN+1];
        char
        ol_brand_generic[BRAND_LEN+1];
        double
        ol_i_price;
        double
        ol_amount;
        short
        ol_stock;
} OL_NEW_ORDER_DATA;

typedef struct
{
        // input params
        long                w_id;
        short               d_id;
        long                c_id;
        short               o_ol_cnt;

        // output params
        EXEC_STATUS
        exec_status_code;
        char
        c_last[LAST_NAME_LEN+1];
        char                c_credit[CREDIT_LEN+1];
        double              c_discount;
        double              w_tax;
        double              d_tax;
        long                            o_id;
        short
        o_commit_flag;
        TIMESTAMP_STRUCT    o_entry_d;
        short               o_all_local;
        double              total_amount;
        OL_NEW_ORDER_DATA
        OL[MAX_OL_NEW_ORDER_ITEMS];
} NEW_ORDER_DATA, *PNEW_ORDER_DATA;

typedef struct
{       // input params
        long
w_id;
        short
d_id;
        long
c_id;
        short
c_d_id;
        long
c_w_id;
        double
h_amount;
        char
c_last[LAST_NAME_LEN+1];

        // output params
        EXEC_STATUS
exec_status_code;
        TIMESTAMP_STRUCT     h_date;
        char
w_street_1[ADDRESS_LEN+1];
        char
w_street_2[ADDRESS_LEN+1];
        char
w_city[ADDRESS_LEN+1];
        char
w_state[STATE_LEN+1];
        char
w_zip[ZIP_LEN+1];
        char
d_street_1[ADDRESS_LEN+1];
        char
d_street_2[ADDRESS_LEN+1];
        char
d_city[ADDRESS_LEN+1];
        char
d_state[STATE_LEN+1];
        char
d_zip[ZIP_LEN+1];
        char
c_first[FIRST_NAME_LEN+1];
        char
c_middle[MIDDLE_NAME_LEN + 1];
        char
c_street_1[ADDRESS_LEN+1];
        char
c_street_2[ADDRESS_LEN+1];
        char
c_city[ADDRESS_LEN+1];
        char
c_state[STATE_LEN+1];
        char
c_zip[ZIP_LEN+1];
        char
c_phone[PHONE_LEN+1];
        TIMESTAMP_STRUCT     c_since;
        char
c_credit[CREDIT_LEN+1];
        double
c_credit_lim;
        double
c_discount;
        double
c_balance;
        char
c_data[200+1];
} PAYMENT_DATA, *PPAYMENT_DATA;

typedef struct
{
        long
        ol_i_id;
        long
        ol_supply_w_id;
        short
        ol_quantity;
        double
        ol_amount;
        TIMESTAMP_STRUCT    ol_delivery_d;
} OL_ORDER_STATUS_DATA;

typedef struct
{       // input params
        long                w_id;
        short               d_id;
        long                c_id;
        char
c_last[LAST_NAME_LEN+1];

        // output params
        EXEC_STATUS
exec_status_code;
        char
c_first[FIRST_NAME_LEN+1];
        char
c_middle[MIDDLE_NAME_LEN+1];
        double              c_balance;
        long                o_id;
        TIMESTAMP_STRUCT    o_entry_d;
        short               o_carrier_id;
        OL_ORDER_STATUS_DATA
OL[MAX_OL_ORDER_STATUS_ITEMS];
        short               o_ol_cnt;
} ORDER_STATUS_DATA, *PORDER_STATUS_DATA;


typedef struct
{       // input params
        long                            w_id;
        short                           o_carrier_id;

        // output params
        EXEC_STATUS
        exec_status_code;
        SYSTEMTIME                      queue_time;
        long
        o_id[10];           // id's of delivered
orders for districts 1 to 10
} DELIVERY_DATA, *PDELIVERY_DATA;

//This structure is used for posting delivery
transactions and for writing them to the delivery
server.
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
typedef struct _DELIVERY_TRANSACTION
{
          SYSTEMTIME          queue;
          //time delivery transaction queued
          long                w_id;
          //delivery warehouse
          short               o_carrier_id;
          //carrier id
} DELIVERY_TRANSACTION;

typedef struct
{         // input params
          long
          w_id;
          short
          d_id;
          short
          threshold;

          // output params
          EXEC_STATUS
          exec_status_code;
          long
          low_stock;
} STOCK_LEVEL_DATA, *PSTOCK_LEVEL_DATA;
```

tuxapp.cpp

```
/*        FILE:               TUXAPP.CPP
 *                                    Microsoft
TPC-C Kit Ver. 4.20.000
 *                                    Copyright
Microsoft, 1999
 *             All Rights Reserved
 *
 *                                    Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *        PURPOSE:  Implementation for TPC-C Tuxedo
server.
 *        Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                4.20.000 - updated rev number to
match kit
 */

#include <windows.h>
#include <process.h>
#include <tchar.h>
#include <stdio.h>
#include <stdarg.h>
#include <iostream.h>
#include <malloc.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <io.h>
#include <assert.h>

#include <sqltypes.h>
#include <sql.h>
#include <sqlext.h>

#include <tmenv.h>
#include <xa.h>
#include <atmi.h>

#include "..\..\common\src\trans.h"
          //tpckit transaction header contains
defination of structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\ReadRegistry.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h"
          // DBLIB implementation of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h"
          // ODBC implementation of TPC-C txns
#include "tuxapp.h"

char
          szMyComputerName[MAX_COMPUTERNAME_LENGTH+1]
;

// configuration settings from registry
TPCCREGISTRYDATA              Reg;

CTPCC_BASE                    *pTxn = NULL;


#include "..\..\common\src\ReadRegistry.cpp"

/* FUNCTION: tpsvrinit ( int argc, char *argv[])
 *
 * PURPOSE:          Initialize the Server to Database
connection.
 *
 * RETURNS:                   int       0
          Success
 *                                                -1
          Failure
 */

int tpsvrinit ( int argc, char *argv[] )
{
          try
          {
                    DWORD dwSize =
MAX_COMPUTERNAME_LENGTH+1;
                    GetComputerName(szMyComputerName,
&dwSize);
                    szMyComputerName[dwSize] = 0;


                    if ( ReadTPCCRegistrySettings(
&Reg ) )
                              throw new CTUXAPP_ERR(
ERR_MISSING_REGISTRY_ENTRIES );
                    GetParameters(argc, argv);

                    switch (Reg.eDB_Protocol)
                    {
                    case ODBC:
                              pTxn = new CTPCC_ODBC(
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword,
szMyComputerName, Reg.szDbName );
                              break;
                    case DBLIB:
                              pTxn = new CTPCC_DBLIB(
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword,
szMyComputerName, Reg.szDbName );
                              break;
                    }
          }
          catch (CBaseErr *e)
          {
                    WriteMessageToEventLog(e-
>ErrorText());
                    delete e;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception."));
          }

          return 0;
}

/* FUNCTION: tpsvrdone ( void )
 *
 */

void tpsvrdone ( void )
{
          delete pTxn;
          pTxn = NULL;
}

/* FUNCTION: BOOL GetParameters(int argc, char
*argv[])
 *
 * PURPOSE:          This function parses the command
line passed in to the delivery executable,
initializing
 *                              and filling in global
variable parameters.
 *
 * ARGUMENTS:        int                 argc
          number of command line arguments passed to
delivery
 *                                        char
          *argv[]   array of command line argument
pointers
 *
 */

static void GetParameters(int argc, char *argv[])
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
{
          // advance through args until "--" is found
          for(int j=0; j<argc; j++)
          {
                    if (strcmp(argv[j],"--") == 0)
                              break;
          }

          for(int i=j+1; i<argc; i++)
          {
                    if ( argv[i][0] == '-' ||
argv[i][0] == '/' )
                    {
                              switch(argv[i][1])
                              {
                                        case 'S':

          strcpy(Reg.szDbServer, argv[i]+2);

          break;
                                        case 'D':

          strcpy(Reg.szDbName, argv[i]+2);

          break;
                                        case 'P':

          strcpy(Reg.szDbPassword, argv[i]+2);

          break;
                                        case 'U':

          strcpy(Reg.szDbUser, argv[i]+2);

          break;
                                        default:

          cout << "Microsoft TPC-C Kit" << endl;

          cout << "Tuxedo Server" << endl << endl;

          cout << "Usage:" << endl;

          cout << "    tuxapp [<tuxedo-args>] -- -
S<sql-server> [-D<database>] [-U<user>] [-
P<password>]" << endl << endl;

          cout << "All parameters default to values
in registry." << endl;

          throw new CTUXAPP_ERR( ERR_BAD_SYNTAX );
                                        }
                    }
          }
}

static void WriteMessageToEventLog(LPTSTR lpszMsg)
{
    TCHAR   szMsg[256];
    HANDLE  hEventSource;
    LPTSTR  lpszStrings[2];

    // Use event logging to log the error.
    //
    hEventSource = RegisterEventSource(NULL,
TEXT("TUXAPP.EXE"));

    _stprintf(szMsg, TEXT("Error in TUXAPP.EXE: "));
    lpszStrings[0] = szMsg;
    lpszStrings[1] = lpszMsg;

    if (hEventSource != NULL)
        {
        ReportEvent(hEventSource, // handle of event
source
            EVENTLOG_ERROR_TYPE,  // event type
            0,                    // event category
            0,                    // event ID
            NULL,                 // current user's
SID
            2,                    // strings in
lpszStrings
            0,                    // no bytes of raw
data
            (LPCTSTR *)lpszStrings,    // array of
error strings
            NULL);                // no raw data

        (VOID) DeregisterEventSource(hEventSource);
    }
}

void NEWORDER( TPSVCINFO *rqst )
{
          PNEW_ORDER_DATA     pNewOrder;
          TUX_DATA            *pData;
          const int           iSize = sizeof(pData-
>u.NewOrder);

          try
          {
                    pData = (TUX_DATA*)rqst->data;
                    pData->retval = ERR_SUCCESS;
                    pData->error = 0;

                    pNewOrder = pTxn-
>BuffAddr_NewOrder();
                    assert( rqst->len ==
sizeof(TUX_DATA) );
                    memcpy(pNewOrder, &pData-
>u.NewOrder, iSize );

                    pTxn->NewOrder();
                    memcpy( &pData->u.NewOrder,
pNewOrder, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
          catch (CBaseErr *e)
          {
                    pData->retval = e->ErrorType();
                    pData->error = e->ErrorNum();
                    memcpy( &pData->u.NewOrder,
pNewOrder, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
                    delete e;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception."));
                    pData->retval = ERR_TYPE_LOGIC;
                    pData->error = 0;
                    memcpy( &pData->u.NewOrder,
pNewOrder, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
}

void PAYMENT( TPSVCINFO *rqst )
{
          PPAYMENT_DATA       pPayment;
          TUX_DATA            *pData;
          const int           iSize = sizeof(pData-
>u.Payment);

          try
          {
                    pData = (TUX_DATA*)rqst->data;
                    pData->retval = ERR_SUCCESS;
                    pData->error = 0;

                    pPayment = pTxn-
>BuffAddr_Payment();
                    assert( rqst->len ==
sizeof(TUX_DATA) );
                    memcpy(pPayment, &pData-
>u.Payment, iSize );

                    pTxn->Payment();
                    memcpy( &pData->u.Payment,
pPayment, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
          catch (CBaseErr *e)
          {
                    pData->retval = e->ErrorType();
                    pData->error = e->ErrorNum();
                    memcpy( &pData->u.Payment,
pPayment, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
                    delete e;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception."));
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    pData->retval = ERR_TYPE_LOGIC;
                    pData->error = 0;
                    memcpy( &pData->u.Payment,
pPayment, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
}

// Note: Delivery txn code below does not implement
logging of the delivery
//       txn results, so cannot be used as is to run
an auditable TPC-C result.
//       The code is included for completeness.
void DELIVERY( TPSVCINFO *rqst )
{
          PDELIVERY_DATA      pDelivery;
          TUX_DATA            *pData;
          const int           iSize = sizeof(pData-
>u.Delivery);

          try
          {
                    pData = (TUX_DATA*)rqst->data;
                    pData->retval = ERR_SUCCESS;
                    pData->error = 0;

                    pDelivery = pTxn-
>BuffAddr_Delivery();
                    assert( rqst->len ==
sizeof(TUX_DATA) );
                    memcpy(pDelivery, &pData-
>u.Delivery, iSize );

                    pTxn->Delivery();

                    memcpy( &pData->u.Delivery,
pDelivery, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
          catch (CBaseErr *e)
          {
                    pData->retval = e->ErrorType();
                    pData->error = e->ErrorNum();
                    memcpy( &pData->u.Delivery,
pDelivery, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
                    delete e;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception."));
                    pData->retval = ERR_TYPE_LOGIC;
                    pData->error = 0;
                    memcpy( &pData->u.Delivery,
pDelivery, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
}

void STOCKLEVEL( TPSVCINFO *rqst )
{
          PSTOCK_LEVEL_DATA   pStockLevel;
          TUX_DATA                      *pData;
          const int                     iSize =
sizeof(pData->u.StockLevel);

          try
          {
                    pData = (TUX_DATA*)rqst->data;
                    pData->retval = ERR_SUCCESS;
                    pData->error = 0;

                    pStockLevel = pTxn-
>BuffAddr_StockLevel();
                    assert( rqst->len ==
sizeof(TUX_DATA) );
                    memcpy(pStockLevel, &pData-
>u.StockLevel, iSize );

                    pTxn->StockLevel();
                    memcpy( &pData->u.StockLevel,
pStockLevel, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
          catch (CBaseErr *e)
          {
                    pData->retval = e->ErrorType();
                    pData->error = e->ErrorNum();
                    memcpy( &pData->u.StockLevel,
pStockLevel, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
                    delete e;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception."));
                    pData->retval = ERR_TYPE_LOGIC;
                    pData->error = 0;
                    memcpy( &pData->u.StockLevel,
pStockLevel, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
}

void ORDERSTATUS( TPSVCINFO *rqst )
{
          PORDER_STATUS_DATA  pOrderStatus;
          TUX_DATA            *pData;
          const int iSize = sizeof(pData-
>u.OrderStatus);

          try
          {
                    pData = (TUX_DATA*)rqst->data;
                    pData->retval = ERR_SUCCESS;
                    pData->error = 0;

                    pOrderStatus = pTxn-
>BuffAddr_OrderStatus();
                    assert( rqst->len ==
sizeof(TUX_DATA) );
                    memcpy(pOrderStatus, &pData-
>u.OrderStatus, iSize );

                    pTxn->OrderStatus();
                    memcpy( &pData->u.OrderStatus,
pOrderStatus, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
          catch (CBaseErr *e)
          {
                    pData->retval = e->ErrorType();
                    pData->error = e->ErrorNum();
                    memcpy( &pData->u.OrderStatus,
pOrderStatus, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
                    delete e;
          }
          catch (...)
          {

          WriteMessageToEventLog(TEXT("Unhandled
exception."));
                    pData->retval = ERR_TYPE_LOGIC;
                    pData->error = 0;
                    memcpy( &pData->u.OrderStatus,
pOrderStatus, iSize );
                    tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
          }
}

/* FUNCTION: CTUXAPP_ERR::ErrorText
 *
 */

char* CTUXAPP_ERR::ErrorText(void)
{
          int i;

          static SERRORMSG errorMsgs[] =
          {
                    { ERR_MISSING_REGISTRY_ENTRIES,
          "Required entries missing from registry."
                              },
                    { ERR_BAD_SYNTAX,
                    "Syntax error in input
parameters."
          },
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                { ERR_UNKNOWN_DB_PROTOCOL,
        "Unknown database protocol specified in
registry."       },
                { 0,
                                ""


                }
        };

        static char szNotFound[] = "Unknown error
number.";

        for(i=0; errorMsgs[i].szMsg[0]; i++)
        {
                if ( m_Error ==
errorMsgs[i].iError )
                        break;
        }
        if ( !errorMsgs[i].szMsg[0] )
                return szNotFound;
        else
                return errorMsgs[i].szMsg;
}
```

tuxapp.h

```
/*      FILE:               TUXAPP.H
 *                                      Microsoft
TPC-C Kit Ver. 4.20.000
 *                                      Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                                      Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *      PURPOSE:  Header file for TPC-C Tuxedo
server.
 *
 *  Change history:
 *                  4.20.000 - updated rev number to
match kit
 */

enum TUXERROR
{
        ERR_MISSING_REGISTRY_ENTRIES = 1,
        ERR_BAD_SYNTAX,
        ERR_UNKNOWN_DB_PROTOCOL
};

class CTUXAPP_ERR : public CBaseErr
{
        public:
                TUXERROR m_Error;
                CTUXAPP_ERR(TUXERROR Err) {
        m_Error = Err; };
                ~CTUXAPP_ERR() {};

                int ErrorType() {return
ERR_TYPE_TUXEDO;};
                int ErrorNum() {return m_Error;};
                char *ErrorText();
};

struct TUX_DATA
{
        int
        retval;
        int
        error;

        union
        {
                NEW_ORDER_DATA
        NewOrder;
                PAYMENT_DATA
        Payment;
                DELIVERY_DATA
        Delivery;
                STOCK_LEVEL_DATA    StockLevel;
                ORDER_STATUS_DATA   OrderStatus;
        } u;
};

static void GetParameters(int argc, char *argv[]);
static void WriteMessageToEventLog(LPTSTR lpszMsg);

#if defined(__cplusplus)
extern "C" {
#endif

void NEWORDER( TPSVCINFO *rqst );
void PAYMENT( TPSVCINFO *rqst );
void DELIVERY( TPSVCINFO *rqst );
void STOCKLEVEL( TPSVCINFO *rqst );
void ORDERSTATUS( TPSVCINFO *rqst );

#if defined(__cplusplus)
}
#endif
```

tuxmain.c

```
/*      FILE:               TUXMAIN.C
 *                                      Microsoft
TPC-C Kit Ver. 4.20.000
 *                                      Copyright
Microsoft, 1999
 *              All Rights Reserved
 *                                      Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *      PURPOSE:  Implementation for TPC-C Tuxedo
server.
 *      Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *  Change history:
 *                  4.20.000 - updated rev number to
match kit
 */

#include <stdio.h>
#include <xa.h>
#include <atmi.h>

#if defined(__cplusplus)
extern "C" {
#endif
extern int _tmrunserver _((int));
extern void DELIVERY _((TPSVCINFO *));
extern void NEWORDER _((TPSVCINFO *));
extern void ORDERSTATUS _((TPSVCINFO *));
extern void PAYMENT _((TPSVCINFO *));
extern void STOCKLEVEL _((TPSVCINFO *));
#if defined(__cplusplus)
}
#endif

static struct tmdsptchtbl_t _tmdsptchtbl[] = {
        { "DELIVERY", "DELIVERY", (void (*)
_((TPSVCINFO *))) DELIVERY, 0, 0 },
        { "NEWORDER", "NEWORDER", (void (*)
_((TPSVCINFO *))) NEWORDER, 1, 0 },
        { "ORDERSTATUS", "ORDERSTATUS", (void (*)
_((TPSVCINFO *))) ORDERSTATUS, 2, 0 },
        { "PAYMENT", "PAYMENT", (void (*)
_((TPSVCINFO *))) PAYMENT, 3, 0 },
        { "STOCKLEVEL", "STOCKLEVEL", (void (*)
_((TPSVCINFO *))) STOCKLEVEL, 4, 0 },
        { NULL, NULL, NULL, 0, 0 }
};

#ifndef _TMDLLIMPORT
#define _TMDLLIMPORT
#endif

_TMDLLIMPORT extern struct xa_switch_t tmnull_switch;

struct tmsvrargs_t tmsvrargs = {
        NULL,
        &_tmdsptchtbl[0],
        0,
        tpsvrinit,
        tpsvrdone,
        _tmrunserver,       /* PRIVATE  */
        NULL,                       /* RESERVED
*/
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        NULL,                           /* RESERVED
*/
        NULL,                           /* RESERVED
*/
        NULL                            /* RESERVED
*/
};

struct tmsvrargs_t *
#ifdef _TMPROTOTYPES
_tmgetsvrargs(void)
#else
_tmgetsvrargs()
#endif
{
        tmsvrargs.xa_switch = &tmnull_switch;
        return(&tmsvrargs);
}

int
#ifdef _TMPROTOTYPES
main(int argc, char **argv)
#else
main(argc,argv)
int argc;
char **argv;
#endif
{
#ifdef TMMAINEXIT
#include "mainexit.h"
#endif

        return( _tmstartserver( argc, argv,
_tmgetsvrargs()));
}
```

txn_base.h

```
/*      FILE:                   TXN_BASE.H
 *                                      Microsoft
TPC-C Kit Ver. 4.20.000
 *                                      Copyright
Microsoft, 1999
 *              All Rights Reserved
 *
 *                                      Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
 *
 *      PURPOSE:  Header file for TPC-C txn class
implementation.
 *
 *  Change history:
 *                  4.20.000 - updated rev number to
match kit
 */

#pragma once

// need to declare functions for import, unless
define has already been created
// by the DLL's .cpp module for export.
#ifndef DllDecl
#define DllDecl  __declspec( dllimport )
#endif

class DllDecl CTPCC_BASE
{
        public:
                CTPCC_BASE(void) {};
                virtual ~CTPCC_BASE(void) {};

                virtual PNEW_ORDER_DATA
        BuffAddr_NewOrder()         = 0;
                virtual PPAYMENT_DATA
        BuffAddr_Payment()          = 0;
                virtual PDELIVERY_DATA
        BuffAddr_Delivery()         = 0;
                virtual PSTOCK_LEVEL_DATA
        BuffAddr_StockLevel()       = 0;
                virtual PORDER_STATUS_DATA
        BuffAddr_OrderStatus()      = 0;

                virtual void NewOrder
        () = 0;
                virtual void Payment
        () = 0;
                virtual void Delivery
        () = 0;
                virtual void StockLevel
        () = 0;
                virtual void OrderStatus      ()
= 0;
};
```

tpcc_oledb.cpp

```
/*      FILE:                   TPCC_OLEDB.CPP
 *                                      Microsoft
TPC-C Kit Ver. 4.42.000
 *                                      Copyright
Microsoft, 2004
 *                                      Written by
Sergey Vasilevskiy
 *              All Rights Reserved
 *
 *
 *
 *      PURPOSE:  Implements OLEDB calls for TPC-C
txns.
 *      Contact:  Charles Levine
(clevine@microsoft.com)
 *
 *
 */

#include <windows.h>
#include <stdio.h>
#include <assert.h>
#include <stddef.h>

#define DBINITCONSTANTS
#include <oledb.h>
//#include <sqloledb.h> // Use MDAC
#include <sqlncli.h>          // Use SNAC
#include <oledberr.h>

#ifdef ICECAP
#include <icapexp.h>
#endif

// need to declare functions for export
#define DllDecl  __declspec( dllexport )

#include "..\..\common\src\error.h"
#include "..\..\common\src\trans.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_oledb.h"

#ifndef SQL_MAX_MESSAGE_LENGTH
#define SQL_MAX_MESSAGE_LENGTH 512
#endif

// version string; must match return value from
tpcc_version stored proc
const char          sVersion[] = "4.20.000";

const iMaxRetries = 10;                 // how many
retries on deadlock

const int iErrOleDbProvider = 7312;
const char sErrTimeoutExpired[] = "Timeout expired";

// this needs to be the same as the max length of
machine/database/user/password in Benchcraft
(engstut.h)
const static int    iMaxNameLen = 32;

BOOL APIENTRY DllMain(HMODULE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{
        switch( ul_reason_for_call )
        {
                case DLL_PROCESS_ATTACH:

        DisableThreadLibraryCalls(hModule);

                        break;

                case DLL_PROCESS_DETACH:

                        break;

                default:
                        /* nothing */;
        }
        return TRUE;
}

/* FUNCTION: CTPCC_OLEDB_ERR::ErrorText
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
 *
 */

char* CTPCC_OLEDB_ERR::ErrorText(void)
{
          int i;

          static SERRORMSG errorMsgs[] =
          {
                    { ERR_WRONG_SP_VERSION,
          "Wrong version of stored procs on database
server"   },
                    { ERR_INVALID_CUST,
          "Invalid Customer id,name."
                                                  },
                    { ERR_NO_SUCH_ORDER,
          "No orders found for customer."
                                                  },
                    { ERR_RETRIED_TRANS,
          "Retries before transaction succeeded."
                              },
                    { 0,
                              ""



          }
          };

          static char szNotFound[] = "Unknown error
number.";

          for(i=0; errorMsgs[i].szMsg[0]; i++)
          {
                    if ( m_errno ==
errorMsgs[i].iError )
                              break;
          }
          if ( !errorMsgs[i].szMsg[0] )
                    return szNotFound;
          else
                    return errorMsgs[i].szMsg;
}

// wrapper routine for class constructor
__declspec(dllexport) CTPCC_OLEDB* CTPCC_OLEDB_new(
          LPCSTR szServer,              // name of
SQL server
          LPCSTR szUser,                              //
user name for login
          LPCSTR szPassword,            // password
for login
          LPCSTR szHost,                              //
not used
          LPCSTR szDatabase,            // name of
database to use
          LPCWSTR szSPPrefix )                        //
prefix to append to the stored procedure names
{
          return new CTPCC_OLEDB( szServer, szUser,
szPassword, szHost, szDatabase, szSPPrefix );
}



CTPCC_OLEDB::CTPCC_OLEDB (
          LPCSTR szServer,
          // name of SQL server
          LPCSTR szUser,
                    // user name for login
          LPCSTR szPassword,
          // password for login
          LPCSTR szHost,
                    // not used
          LPCSTR szDatabase,
          // name of database to use
          LPCWSTR szSPPrefix
          // prefix to append to the stored procedure
names
          )
          : m_pIMalloc(NULL)
{
          int
          iRc;
          int
          i;
          HRESULT                                     hr;

          IDBInitialize*
          pIDBInitialize = NULL;                      //
data source interface
          IDBProperties*
          pIDBProperties = NULL;
          ICommandText*
          pICommandText;
          // SQL command without parameters
          wchar_t
          szwServer[iMaxNameLen];                     //
Unicode string used to convert to BSTR
          wchar_t
          szwDatabase[iMaxNameLen];     // Unicode
string used to convert to BSTR
          wchar_t
          szwUser[iMaxNameLen];                       //
Unicode string used to convert to BSTR
          wchar_t
          szwPassword[iMaxNameLen];     // Unicode
string used to convert to BSTR

          // Copy stored procedures prefix
          wcsncpy(m_szSPPrefix, szSPPrefix,
sizeof(m_szSPPrefix)/sizeof(m_szSPPrefix[0]));

          // Convert single byte ANSI strings to
Unicode (for later conversion to BSTR)
          iRc = MultiByteToWideChar(CP_THREAD_ACP,
MB_PRECOMPOSED, szServer, (int)strlen(szServer)+1,
szwServer, iMaxNameLen);
          iRc = MultiByteToWideChar(CP_THREAD_ACP,
MB_PRECOMPOSED, szDatabase,
(int)strlen(szDatabase)+1, szwDatabase, iMaxNameLen);
          iRc = MultiByteToWideChar(CP_THREAD_ACP,
MB_PRECOMPOSED, szUser, (int)strlen(szUser)+1,
szwUser, iMaxNameLen);
          iRc = MultiByteToWideChar(CP_THREAD_ACP,
MB_PRECOMPOSED, szPassword,
(int)strlen(szPassword)+1, szwPassword, iMaxNameLen);

          // Initialize COM library to be able to use
OLE-DB interfaces
          CoInitialize(NULL);

          // Initialization - create SQLOLEDB
component
          //hr = CoCreateInstance(CLSID_SQLOLEDB, //
GUID of SQLOLEDB component
          // Compile for SNAC
          hr = CoCreateInstance(CLSID_SQLNCLI,    //
GUID of SQLNCLI component
                              NULL,
                    // not defining an aggregate
component, so NULL
                              CLSCTX_INPROC_SERVER,   //
run the component in our process
                              IID_IDBInitialize,
                              (void **) &pIDBInitialize);
    /*
    Initialize the property values needed
    to establish the connection.
    */
    for(i = 0; i < 4; i++)
        VariantInit(&m_InitProperties[i].vValue);
    //Server name.
    m_InitProperties[0].dwPropertyID  =
DBPROP_INIT_DATASOURCE;
    m_InitProperties[0].vValue.vt     = VT_BSTR;
    m_InitProperties[0].vValue.bstrVal=
SysAllocString(szwServer);
    m_InitProperties[0].dwOptions     =
DBPROPOPTIONS_REQUIRED;
    m_InitProperties[0].colid         = DB_NULLID;
    //Database.
    m_InitProperties[1].dwPropertyID  =
DBPROP_INIT_CATALOG;
    m_InitProperties[1].vValue.vt     = VT_BSTR;
    m_InitProperties[1].vValue.bstrVal=
SysAllocString(szwDatabase);
    m_InitProperties[1].dwOptions     =
DBPROPOPTIONS_REQUIRED;
    m_InitProperties[1].colid         = DB_NULLID;
    //Username (login).
    m_InitProperties[2].dwPropertyID  =
DBPROP_AUTH_USERID;
    m_InitProperties[2].vValue.vt     = VT_BSTR;
    m_InitProperties[2].vValue.bstrVal=
SysAllocString(szwUser);
    m_InitProperties[2].dwOptions     =
DBPROPOPTIONS_REQUIRED;
    m_InitProperties[2].colid         = DB_NULLID;
    //Password.
    m_InitProperties[3].dwPropertyID  =
DBPROP_AUTH_PASSWORD;
    m_InitProperties[3].vValue.vt     = VT_BSTR;
    m_InitProperties[3].vValue.bstrVal=
SysAllocString(szwPassword);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    m_InitProperties[3].dwOptions     =
DBPROPOPTIONS_REQUIRED;
    m_InitProperties[3].colid         = DB_NULLID;
    /*
    Construct the DBPROPSET
structure(m_rgInitPropSet). The
    DBPROPSET structure is used to pass an array of
DBPROP
    structures (m_InitProperties) to the
SetProperties method.
    */
    m_rgInitPropSet.guidPropertySet =
DBPROPSET_DBINIT;
    m_rgInitPropSet.cProperties    = 4;
    m_rgInitPropSet.rgProperties   =
m_InitProperties;
    //Set initialization properties.
          if (FAILED(hr = pIDBInitialize-
>QueryInterface(IID_IDBProperties,


                    (void **)&pIDBProperties)))
          {
                    ThrowError(pIDBInitialize,
COLEDBERR::eQueryInterface, "CTPCC_OLEDB()");
          }

    hr = pIDBProperties->SetProperties(1,
&m_rgInitPropSet);

    pIDBProperties->Release();
    //Now establish the connection to the data
source.
    hr = pIDBInitialize->Initialize();

          // Free BSTR property strings
          for(i = 0; i < 4; i++)
          {

SysFreeString(m_InitProperties[i].vValue.bstrVal);

          }

          hr = pIDBInitialize-
>QueryInterface(IID_IDBCreateSession, (void
**)&m_pIDBCreateSession);

          // Releasing this has no effect on the SQL
Server connection
    // of the data source object because of the
reference maintained by
    // m_pIDBCreateSession.
    pIDBInitialize->Release();
    pIDBInitialize = NULL;

          hr = m_pIDBCreateSession-
>CreateSession(NULL, IID_IDBCreateCommand, (IUnknown
**)&m_pIDBCreateCommand);
          if (FAILED(hr))
          {
                    ThrowError(m_pIDBCreateSession,
COLEDBERR::eCreateSession, "CTPCC_OLEDB()");
          }

          hr = m_pIDBCreateCommand-
>CreateCommand(NULL, IID_ICommandText, (IUnknown
**)&pICommandText);
          if (FAILED(hr))
          {
                    ThrowError(m_pIDBCreateCommand,
COLEDBERR::eCreateCommand, "CTPCC_OLEDB()");
          }

          hr = pICommandText-
>SetCommandText(DBGUID_SQL, L"set nocount on set
XACT_ABORT ON");
          if (FAILED(hr))
          {
                    ThrowError(pICommandText,
COLEDBERR::eSetCommandText, "CTPCC_OLEDB()");
          }

          hr = pICommandText->Execute(NULL, IID_NULL,
NULL, NULL, NULL);
          if (FAILED(hr))
          {
                    ThrowError(pICommandText,
COLEDBERR::eExecute, "CTPCC_OLEDB()");
          }

          pICommandText->Release();

          // verify that version of stored procs on
server is correct
          CheckSPVersion();

          // Get IMalloc interface
          hr = CoGetMalloc(1, (LPMALLOC
*)&m_pIMalloc);

          // Bind parameters for each of the
transactions
          InitNewOrderParams();
          InitPaymentParams();
          InitOrderStatusParams();
          InitDeliveryParams();
          InitStockLevelParams();
}

CTPCC_OLEDB::~CTPCC_OLEDB( void )
{
          if (m_pIMalloc != NULL)
          {
                    m_pIMalloc->Release();
          }
          m_pIPaymentCommand->Release();
          m_pIDBCreateCommand->Release();
          m_pIDBCreateSession->Release();

          CoUninitialize();   // uninitialize COM
library
}

/*
*         Check stored procedures version on the
server.
*/
void CTPCC_OLEDB::CheckSPVersion()
{
          HRESULT                         hr;
          char
          db_sp_version[10];
          ICommandText*       pICommandText;
          IAccessor*                      pIAccessor;
          IRowset*            pRowset;
          const ULONG                     nOutputParams
= 1;      // output 1st result set columns
          HACCESSOR
          hTpccVersionOutputAccessor;
          // Structure to bind in accessor
          DBBINDING
          acOutputDBBinding[nOutputParams];
          DBBINDSTATUS
          acOutputDBBindStatus[nOutputParams];
          LONG                            cRows = 1;
          // number of rows returned in the rowset
          ULONG
          cRowsObtained;
          HROW                            rghRow;
          //returned row handles
          HROW*                           prghRow =
&rghRow;


          hr = m_pIDBCreateCommand-
>CreateCommand(NULL, IID_ICommandText, (IUnknown
**)&pICommandText);
          if (FAILED(hr))
          {
                    ThrowError(m_pIDBCreateCommand,
COLEDBERR::eCreateCommand, "CheckSPVersion()");
          }

          hr = pICommandText-
>SetCommandText(DBGUID_SQL, L"{call tpcc_version}");
          if (FAILED(hr))
          {
                    ThrowError(pICommandText,
COLEDBERR::eSetCommandText, "CheckSPVersion()");
          }

          hr = pICommandText-
>QueryInterface(IID_IAccessor, (void **)&pIAccessor);
          if (FAILED(hr))
          {
                    ThrowError(pICommandText,
COLEDBERR::eQueryInterface, "CheckSPVersion()");
          }

          // Now fill the binding information for
result set 1 output columns
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        InitBindings(&acOutputDBBinding[0],
nOutputParams, eOutputColumn);

        // Binding for a rowset
        SetBinding(&acOutputDBBinding[0], 0,
sizeof(db_sp_version), DBTYPE_STR);

        hr = pIAccessor->CreateAccessor(
                        DBACCESSOR_ROWDATA,
                        nOutputParams,
                        acOutputDBBinding,
                        sizeof(db_sp_version),

&hTpccVersionOutputAccessor,
                        acOutputDBBindStatus);
        if (FAILED(hr))
        {
                ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor, "CheckSPVersion()");
        }

        hr = pICommandText->Execute(NULL,
IID_IRowset, NULL, NULL, (IUnknown **)&pRowset);
        if (FAILED(hr))
        {
                ThrowError(pICommandText,
COLEDBERR::eExecute, "CheckSPVersion()");
        }

        // Fetch the result row handle(s)
        hr = pRowset->GetNextRows(DB_NULL_HCHAPTER,
0, cRows, &cRowsObtained, &prghRow);
        if (FAILED(hr))
        {
                ThrowError(pICommandText,
COLEDBERR::eGetNextRows, "CheckSPVersion()");
        }

        // Fetch the actual row data by handle
        hr = pRowset->GetData(rghRow,
hTpccVersionOutputAccessor, &db_sp_version);
        if (FAILED(hr))
        {
                ThrowError(pICommandText,
COLEDBERR::eGetData, "CheckSPVersion()");
        }

        // Release row(s)
        hr = pRowset->Release();

        pICommandText->Release();

        // Check the retrieved version
        if (strcmp(db_sp_version,sVersion))
                        throw new
CTPCC_OLEDB_ERR(
CTPCC_OLEDB_ERR::ERR_WRONG_SP_VERSION );
}
```

```
void CTPCC_OLEDB::ThrowError( IUnknown*
pObjectWithError, COLEDBERR::ACTION eAction, LPCTSTR
szLocation)
{
        HRESULT
        hr;
        //char
        szState[6];
        char
        szMsg[SQL_MAX_MESSAGE_LENGTH];
        char
        szTmp[6*SQL_MAX_MESSAGE_LENGTH];
        COLEDBERR
        *pOLEDBErr;                                     //
not allocated until needed (maybe never)
        int
                iLen;
        // Interfaces
        IErrorInfo*             pIErrorInfoAll
= NULL;
        IErrorInfo*             pIErrorInfoRecord
= NULL;
        IErrorRecords*          pIErrorRecords
= NULL;
        ISupportErrorInfo*      pISupportErrorInfo
= NULL;
        ISQLServerErrorInfo*
pISQLServerErrorInfo    = NULL;
        ISQLErrorInfo*
        pISQLErrorInfo    = NULL;

        // Information used when cannot get custom
error object
        ERRORINFO
        BasicErrorInfo;
        BSTR
        bstrDescription;
        // Number of error records.
        ULONG                   nRecs;
        ULONG                   nRec;

        // SQL Server error information from
ISQLServerErrorInfo.
        SSERRORINFO*            pSSErrorInfo =
NULL;
        OLECHAR*                pSSErrorStrings =
NULL;

        assert(pObjectWithError != NULL);

        pOLEDBErr = new COLEDBERR(szLocation);

        pOLEDBErr->m_NativeError = 0;
        pOLEDBErr->m_eAction = eAction;
        pOLEDBErr->m_bDeadLock = FALSE;

        szTmp[0] = 0;

        // Only ask for error information if the
interface supports it.
```

```
        // Note: SQLOLEDB provider supports error
interface, so this check is
        // for good style only.
        hr = pObjectWithError-
>QueryInterface(IID_ISupportErrorInfo, (void**)
&pISupportErrorInfo);
        if (FAILED(hr))
        {
                _snprintf(szMsg, sizeof(szMsg),
"SupportErrorInfo interface not supported (hr=0x%X)",
hr);
                pOLEDBErr->m_OLEDBErrStr = new
char[strlen(szMsg)+1];
                strcpy(pOLEDBErr->m_OLEDBErrStr,
szMsg);
                throw pOLEDBErr;
        }
        /*if (FAILED(pISupportErrorInfo-
>InterfaceSupportsErrorInfo(IID_InterfaceWithError)))
        {
                _snprintf(szMsg, sizeof(szMsg),
"InterfaceWithError interface not supported");
                pOLEDBErr->m_OLEDBErrStr = new
char[strlen(szMsg)+1];
                strcpy(pOLEDBErr->m_OLEDBErrStr,
szMsg);
                return;
        }*/

        // Do not test the return of GetErrorInfo.
It can succeed and return
        // a NULL pointer in pIErrorInfoAll. Simply
test the pointer.
        GetErrorInfo(0, &pIErrorInfoAll);

        if (pIErrorInfoAll != NULL)
        {
                // Test to see if it's a valid
OLE DB IErrorInfo interface
                // exposing a list of records.
                if (SUCCEEDED(pIErrorInfoAll-
>QueryInterface(IID_IErrorRecords,      (void**)
&pIErrorRecords)))
                {
                        pIErrorRecords-
>GetRecordCount(&nRecs);

                        // Within each record,
retrieve information from each
                        // of the defined
interfaces.
                        for (nRec = 0; nRec <
nRecs; nRec++)
                        {
                                // Request
the generic SQL error interface.

        pIErrorRecords->GetCustomErrorObject(nRec,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          IID_ISQLErrorInfo, // generic SQL error
interface

          (IUnknown**) &pISQLErrorInfo);

                                        if
(pISQLErrorInfo != NULL)
                                        {
                                                //
Request SQL Server-specific error interface, not the
generic SQL error interface.

          pISQLErrorInfo->QueryInterface(

          IID_ISQLServerErrorInfo, // SQL Server
error interface


          (void**) &pISQLServerErrorInfo);
                                        }

                                        // Test to
ensure the reference is valid, then
                                        // get error
information from ISQLServerErrorInfo.
                                        if
(pISQLServerErrorInfo != NULL)
                                        {

          pISQLServerErrorInfo-
>GetErrorInfo(&pSSErrorInfo, &pSSErrorStrings);

                                                //
ISQLServerErrorInfo::GetErrorInfo succeeds
                                                //
even when it has nothing to return. Test the
                                                //
pointers before using.
                                                if
(pSSErrorInfo)
                                                {

          // First, add the error message.


          // Convert Unicode error string to ANSI.

          WideCharToMultiByte(CP_THREAD_ACP, 0,

                    pSSErrorInfo->pwszMessage, -1,

                    szMsg, sizeof(szMsg),

                    NULL, NULL);


          // quit if there isn't enough room to
concatenate error text

          if ( (strlen(szMsg) + 2) > (sizeof(szTmp) -
strlen(szTmp)) )

                    break;


          // include line break after first error msg

          if (szTmp[0] != 0)

                    strcat( szTmp, "\r\n");

          // concatenate the error record to the
overall error message

          strcat( szTmp, szMsg );


          // Second, add the stored procedure name
and line number, if available.


          if (wcslen(pSSErrorInfo->pwszProcedure)>0)

          {

                    // Prefix with a line break

                    iLen = sprintf(szMsg,
"\r\nProcedure: ");


                    // Convert Unicode error string
to ANSI.


          WideCharToMultiByte(CP_THREAD_ACP, 0,

                              pSSErrorInfo-
>pwszProcedure, -1,

                              &szMsg[iLen],
sizeof(szMsg) - iLen,

                              NULL, NULL);


                    // Check if have space to add the
line number.

                    // Assume the line number takes
no more than 3 digits.

                    if ((strlen(szMsg) + 4)<
sizeof(szMsg))

                    {

                    _snprintf(&szMsg[strlen(szMsg)],
sizeof(szMsg),

                                        ":%d",
pSSErrorInfo->wLineNumber);

                    }


                    // quit if there isn't enough
room to concatenate error text

                    if ( (strlen(szMsg) + 2) >
(sizeof(szTmp) - strlen(szTmp)) )

                              break;


                    // concatenate the error record
to the overall error message

                    strcat( szTmp, szMsg );


                    // copy the overall error string
to the exception

                    pOLEDBErr->m_OLEDBErrStr = new
char[strlen(szTmp)+1];

                    strcpy(pOLEDBErr->m_OLEDBErrStr,
szTmp);

          }


          // Third, capture the (first) database
error


          if (pOLEDBErr->m_NativeError == 0 &&
pSSErrorInfo->lNative != 0)

          {

                    pOLEDBErr->m_NativeError =
pSSErrorInfo->lNative;


                    // Check for deadlock error code
and set the deadlock flag

                    if (pSSErrorInfo->lNative ==
1205)

                    {

                              pOLEDBErr->m_bDeadLock
= TRUE;

                    }
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
		}



		// IMalloc::Free needed to release
references
		// on returned values.
		if (m_pIMalloc != NULL)
		{
			m_pIMalloc->
>Free(pSSErrorStrings);
			m_pIMalloc->Free(pSSErrorInfo);
		}
							}


		pISQLServerErrorInfo->Release();
						}
						else
						{
							//
Custom error object is not supported.
							//
Use general OLE-DB error interface.

							//
Get the numeric error code
		pIErrorRecords->GetBasicErrorInfo(nRec,
&BasicErrorInfo);

							if
(pOLEDBErr->m_NativeError == 0)
							{
		// Get the failed call HRESULT code, which
is not really the native error
		pOLEDBErr->m_NativeError =
BasicErrorInfo.hrError;
							}

							//
Try to get the string description of the error.
		pIErrorRecords->GetErrorInfo(nRec,
LOCALE_USER_DEFAULT,
(IErrorInfo**)&pIErrorInfoRecord);

							if
(pIErrorInfoRecord)
							{

		pIErrorInfoRecord-
>GetDescription(&bstrDescription);
		// Convert Unicode error string to ANSI.
		WideCharToMultiByte(CP_THREAD_ACP, 0,
			bstrDescription, -1,
			szMsg, sizeof(szMsg),
			NULL, NULL);


		pOLEDBErr->m_OLEDBErrStr = new
char[strlen(szMsg)+1];
		strcpy(pOLEDBErr->m_OLEDBErrStr, szMsg);


							}
						}
					}	// for()
				}	// if
(SUCCEEDED(pIErrorInfoAll-
>QueryInterface(IID_IErrorRecords, (void**)
&pIErrorRecords)))
				else
				{	// No IErrorRecords
interface supported. Use default IErrorInfo.
					// Note: SQLOLEDB
supports IErrorRecords, so this check is for good
style only.
					_snprintf(szMsg,
sizeof(szMsg), "IErrorRecords interface not
supported");
					pOLEDBErr-
>m_OLEDBErrStr = new char[strlen(szMsg)+1];
					strcpy(pOLEDBErr-
>m_OLEDBErrStr, szMsg);
				}

				pIErrorInfoAll->Release();

			}	// if (pIErrorInfoAll != NULL)
			else
			{
				// No IErrorInfo interface
supported.
				// Note: SQLOLEDB supports
IErrorInfo, so this check is for good style only.
				_snprintf(szMsg, sizeof(szMsg),
"IErrorInfo interface not supported");
				pOLEDBErr->m_OLEDBErrStr = new
char[strlen(szMsg)+1];
				strcpy(pOLEDBErr->m_OLEDBErrStr,
szMsg);
			}

			throw pOLEDBErr;
		}


/*
*
*	Create a new command object from the SQL
text passed in.
*
*/
void CTPCC_OLEDB::CreateCommand(wchar_t*
szSQLCommand,				// I: SQL
query for the command

				ICommandText**
ppICommandText	// O: returned command object

				)
{
	HRESULT					hr;

	// Create a new command object
	hr = m_pIDBCreateCommand-
>CreateCommand(NULL, IID_ICommandText, (IUnknown
**)ppICommandText);
	if (FAILED(hr))
	{
		ThrowError(m_pIDBCreateCommand,
COLEDBERR::eCreateCommand,
"CTPCC_OLEDB::CreateCommand");
	}

	// Set command text
	hr = (*ppICommandText)-
>SetCommandText(DBGUID_SQL, szSQLCommand);
	if (FAILED(hr))
	{
		ThrowError(*ppICommandText,
COLEDBERR::eSetCommandText,
"CTPCC_OLEDB::CreateCommand");
	}

	// Prepare the command
	PrepareCommand(*ppICommandText);
}

/*
*	QueryInterface and Prepare in one function
for simplicity.
*	DEFERRED PREPARE property is set to off to
prepare immediatelly.
*/
void CTPCC_OLEDB::PrepareCommand(ICommandText*
pICommandText)
{
	HRESULT					hr;
	ICommandPrepare*	pICommandPrepare;
	ICommandProperties* pICommandProperties;
	DBPROPSET
	rowSetPropSet;
	DBPROP
	rowSetProp;

	// Set the deferred prepare property to
false.
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        rowSetProp.dwPropertyID =
SSPROP_DEFERPREPARE;
        memset(&rowSetProp.vValue, 0,
sizeof(rowSetProp.vValue));
        rowSetProp.dwOptions =
DBPROPOPTIONS_REQUIRED;
        rowSetProp.colid = DB_NULLID;

        rowSetPropSet.cProperties = 1;
        rowSetPropSet.guidPropertySet =
DBPROPSET_SQLSERVERROWSET;
        rowSetPropSet.rgProperties = &rowSetProp;

        // Query interface for setting properties
        hr = pICommandText-
>QueryInterface(IID_ICommandProperties, (void
**)&pICommandProperties);
        if (FAILED(hr))
        {
                ThrowError(pICommandText,
COLEDBERR::eQueryInterface,
"CTPCC_OLEDB::PrepareCommand");
        }

        // Set the property set
        hr = pICommandProperties->SetProperties(1,
&rowSetPropSet);
        if (FAILED(hr))
        {
                ThrowError(pICommandText,
COLEDBERR::eQueryInterface,
"CTPCC_OLEDB::PrepareCommand");
        }

        // Get interface for preparing commands
        hr = pICommandText-
>QueryInterface(IID_ICommandPrepare, (void
**)&pICommandPrepare);
        if (FAILED(hr))
        {
                ThrowError(pICommandText,
COLEDBERR::eQueryInterface,
"CTPCC_OLEDB::PrepareCommand");
        }

        // Prepare Payment command
        hr = pICommandPrepare->Prepare(0xFFFFFFFF);
        if (FAILED(hr))
        {
                ThrowError(pICommandPrepare,
COLEDBERR::ePrepare, "CTPCC_OLEDB::PrepareCommand");
        }
}

/*
*       Initialize fields of an array of bindings
structures.
*       Needs to be called before setting
individual parameter/column bindings.
*/
void CTPCC_OLEDB::InitBindings(DBBINDING*
pDBBindings,        // IO: array of bindings

                    int iCount,
                                // I: number of
elements in the array

                    eBindingType BindingType)     //
I: what the bindings will be used for
(parameters/columns)
{
        int i;

        for(i = 0; i < iCount; i++)
    {
                    pDBBindings[i].iOrdinal = i + 1;
        pDBBindings[i].obLength = 0;
        pDBBindings[i].obStatus = 0;
        pDBBindings[i].pTypeInfo = NULL;
        pDBBindings[i].pObject = NULL;
        pDBBindings[i].pBindExt = NULL;
        pDBBindings[i].dwPart = DBPART_VALUE;

                    switch (BindingType)
                    {
                    case eInputParameter:
                                pDBBindings[i].eParamIO
= DBPARAMIO_INPUT;
                                break;
                    case eOutputParameter:
                                pDBBindings[i].eParamIO
= DBPARAMIO_OUTPUT;
                                break;
                    case eInputOutputParameter:
                                pDBBindings[i].eParamIO
= DBPARAMIO_INPUT | DBPARAMIO_OUTPUT;
                                break;
                    case eOutputColumn:
                                pDBBindings[i].eParamIO
= DBPARAMIO_NOTPARAM;
                                break;
                    default:
                                assert(false);      //
this should never happen
                    }

        pDBBindings[i].dwMemOwner =
DBMEMOWNER_CLIENTOWNED;
        pDBBindings[i].dwFlags = 0;
                    pDBBindings[i].bPrecision = 0;
        pDBBindings[i].bScale = 0;
    }
}

/*
*       Perform binding for one parameter or output
column.
*
*/
void CTPCC_OLEDB::SetBinding(DBBINDING* pDBBinding,
// I: binding row structure
                    size_t obValue,
          // I: parameter (column) offset in the user
buffer

                    size_t cbMaxLen,             //
I: parameter (column) length

                    DBTYPE wType
          // I: parameter (column) type

                    )
{
          pDBBinding->obValue = (ULONG)obValue;
          pDBBinding->cbMaxLen = (ULONG)cbMaxLen;
          pDBBinding->wType = wType;
}

void CTPCC_OLEDB::InitStockLevelParams()
{
          int
                    i;
          HRESULT
          hr;
          wchar_t
          szName[iMAX_SP_NAME_LEN];
          IAccessor*
          pIAccessor;
    const ULONG
          nInputParams = 3;   // input parameters
          const ULONG
          nOutputParams = 1;  // output 1st result
set columns
          // Structure to bind in accessor
          DBBINDING
          acInputDBBinding[nInputParams];
          DBBINDSTATUS
          acInputDBBindStatus[nInputParams];
          DBBINDING
          acOutputDBBinding[nOutputParams];
          DBBINDSTATUS
          acOutputDBBindStatus[nOutputParams];

          // Set command text
          _snwprintf(szName,
sizeof(szName)/sizeof(szName[0]),
                              L"{call
%stpcc_stocklevel (?,?,?)}", m_szSPPrefix);

          // Create and Prepare a new command object
for StockLevel.
          CreateCommand(szName,
&m_pIStockLevelCommand);

          // Describe the consumer buffer by filling
in the array
    // of DBBINDING structures.  Each binding
associates
    // a single parameter to the consumer's buffer.
          InitBindings(&acInputDBBinding[0],
nInputParams, eInputParameter);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        i = 0;
    // StockLevel parameter 1
        SetBinding(&acInputDBBinding[i++],
offsetof(STOCK_LEVEL_DATA, w_id),
sizeof(m_txn.StockLevel.w_id), DBTYPE_I4);

    // StockLevel parameter 2
        SetBinding(&acInputDBBinding[i++],
offsetof(STOCK_LEVEL_DATA, d_id),
sizeof(m_txn.StockLevel.d_id), DBTYPE_UI1);

        // StockLevel parameter 3
        SetBinding(&acInputDBBinding[i++],
offsetof(STOCK_LEVEL_DATA, threshold),
sizeof(m_txn.StockLevel.threshold), DBTYPE_I2);

        hr = m_pIStockLevelCommand-
>QueryInterface(IID_IAccessor, (void **)&pIAccessor);
        if (FAILED(hr))
        {
                ThrowError(m_pIStockLevelCommand,
COLEDBERR::eQueryInterface,
"InitStockLevelParams()");
        }

        hr = pIAccessor->CreateAccessor(
                        DBACCESSOR_PARAMETERDATA,
                        nInputParams,
                        acInputDBBinding,
                        sizeof(STOCK_LEVEL_DATA),

&m_hStockLevelInputAccessor,
                        acInputDBBindStatus);
        if (FAILED(hr))
        {
                ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor,
"InitStockLevelParams()");
        }

        m_StockLevelExecuteParams.cParamSets = 1;
        m_StockLevelExecuteParams.hAccessor =
m_hStockLevelInputAccessor;
        m_StockLevelExecuteParams.pData =
&m_txn.StockLevel;

        // Now fill the binding information for
result set 1 output columns
        InitBindings(&acOutputDBBinding[0],
nOutputParams, eOutputColumn);

        // Binding for a rowset that may return
more than one row.
        i = 0;
        // StockLevel output column 1
        SetBinding(&acOutputDBBinding[i++],
offsetof(STOCK_LEVEL_DATA, low_stock),
sizeof(m_txn.StockLevel.low_stock), DBTYPE_I4);

        hr = pIAccessor->CreateAccessor(
                        DBACCESSOR_ROWDATA |
DBACCESSOR_OPTIMIZED,
                        nOutputParams,
                        acOutputDBBinding,
                        sizeof(STOCK_LEVEL_DATA),

&m_hStockLevelOutputAccessor,
                        acOutputDBBindStatus);
        if (FAILED(hr))
        {
                ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor,
"InitStockLevelParams()");
        }
}

void CTPCC_OLEDB::StockLevel()
{
        HRESULT                 hr;
        int
        iTryCount = 0;
        IRowset*            pRowset;
        LONG                    cRows = 1;
        // number of rows returned in the rowset
        ULONG
        cRowsObtained;
        HROW                    rghRow;
        //returned row handles
        HROW*                   prghRow =
&rghRow;

        while (TRUE)
        {
                try
                {
                        // Execute the prepared
command
                        hr =
m_pIStockLevelCommand->Execute(NULL, IID_IRowset,
&m_StockLevelExecuteParams, NULL,


        (IUnknown **)&pRowset);
                        if (FAILED(hr))
                        {

        ThrowError(m_pIStockLevelCommand,
COLEDBERR::eExecute, "StockLevel()");
                        }

                        // Fetch the result row
handle(s)
                        hr = pRowset-
>GetNextRows(DB_NULL_HCHAPTER, 0, cRows,
&cRowsObtained, &prghRow);
                        if (FAILED(hr))
                        {

        ThrowError(m_pIStockLevelCommand,
COLEDBERR::eGetNextRows, "StockLevel()");
                        }

                        // Fetch the actual row
data by handle
                        hr = pRowset-
>GetData(rghRow, m_hStockLevelOutputAccessor,
&m_txn.StockLevel);
                        if (FAILED(hr))
                        {

        ThrowError(m_pIStockLevelCommand,
COLEDBERR::eGetData, "StockLevel()");
                        }

                        // Release row(s)
                        hr = pRowset-
>ReleaseRows(cRowsObtained, prghRow, NULL, NULL,
NULL);
                        // Release rowset
                        hr = pRowset-
>Release();


        m_txn.StockLevel.exec_status_code = eOK;

                        break;
                }
                catch (COLEDBERR *e)
                {
                        if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                throw;

                        // hit deadlock;
backoff for increasingly longer period
                        delete e;
                        Sleep(10 * iTryCount);
                }
        }

//      if (iTryCount)
//              throw new
CTPCC_OLEDB_ERR(CTPCC_OLEDB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_OLEDB::InitNewOrderParams()
{
        int
                i, j, iOlCount;
        HRESULT
        hr;
        wchar_t
        szName[iMAX_SP_NAME_LEN];
        IAccessor*
        pIAccessor;
    const ULONG
        nInputParams = 5 +
3*MAX_OL_NEW_ORDER_ITEMS;     // input parameters
        const ULONG
        nOutputParams = 5;  // output 1st result
set columns
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          const ULONG
          nOutputParams2 = 8; // output 2nd result
set columns
          // Structure to bind in accessor
          DBBINDING
          acInputDBBinding[nInputParams];
          DBBINDSTATUS
          acInputDBBindStatus[nInputParams];
          DBBINDING
          acOutputDBBinding[nOutputParams];
          DBBINDSTATUS
          acOutputDBBindStatus[nOutputParams];
          DBBINDING
          acOutputDBBinding2[nOutputParams2];
          DBBINDSTATUS
          acOutputDBBindStatus2[nOutputParams2];

          // Describe the consumer buffer by filling
in the array
    // of DBBINDING structures.  Each binding
associates
    // a single parameter to the consumer's buffer.
          InitBindings(&acInputDBBinding[0],
nInputParams, eInputParameter);

          i = 0;
    // NewOrder parameter 1
          SetBinding(&acInputDBBinding[i++],
offsetof(NEW_ORDER_DATA, w_id),
sizeof(m_txn.NewOrder.w_id), DBTYPE_I4);

    // NewOrder parameter 2
          SetBinding(&acInputDBBinding[i++],
offsetof(NEW_ORDER_DATA, d_id),
sizeof(m_txn.NewOrder.d_id), DBTYPE_UI1);

          // NewOrder parameter 3
          SetBinding(&acInputDBBinding[i++],
offsetof(NEW_ORDER_DATA, c_id),
sizeof(m_txn.NewOrder.c_id), DBTYPE_I4);

          // NewOrder parameter 4
          SetBinding(&acInputDBBinding[i++],
offsetof(NEW_ORDER_DATA, o_ol_cnt),
sizeof(m_txn.NewOrder.o_ol_cnt), DBTYPE_UI1);

          // NewOrder parameter 5
          SetBinding(&acInputDBBinding[i++],
offsetof(NEW_ORDER_DATA, o_all_local),
sizeof(m_txn.NewOrder.o_all_local), DBTYPE_UI1);

          for (j=0; j<MAX_OL_NEW_ORDER_ITEMS; j++)
          {

          SetBinding(&acInputDBBinding[i++],
offsetof(NEW_ORDER_DATA, OL[j].ol_i_id),
sizeof(m_txn.NewOrder.OL[j].ol_i_id), DBTYPE_I4);

          SetBinding(&acInputDBBinding[i++],
offsetof(NEW_ORDER_DATA, OL[j].ol_supply_w_id),
sizeof(m_txn.NewOrder.OL[j].ol_supply_w_id),
DBTYPE_I4);

          SetBinding(&acInputDBBinding[i++],
offsetof(NEW_ORDER_DATA, OL[j].ol_quantity),
sizeof(m_txn.NewOrder.OL[j].ol_quantity), DBTYPE_I2);

          }


          // Now fill the binding information for
result set 1 output columns
          InitBindings(&acOutputDBBinding[0],
nOutputParams, eOutputColumn);

          // Binding for the order line rowsets (each
consist of one row).
          // Bind to offsets of the OL_NEW_ORDER_DATA
structure instead of NEW_ORDER_DATA.
          // IRowset::GetData() will be passed
individual array slots OL[i] to fetch the data
          // from the row set.

          i = 0;
          // NewOrder output column 1
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_NEW_ORDER_DATA, ol_i_name),
sizeof(m_txn.NewOrder.OL[0].ol_i_name), DBTYPE_STR);

          // NewOrder output column 2
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_NEW_ORDER_DATA, ol_stock),
sizeof(m_txn.NewOrder.OL[0].ol_stock), DBTYPE_I2);

          // NewOrder output column 3
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_NEW_ORDER_DATA, ol_brand_generic),
sizeof(m_txn.NewOrder.OL[0].ol_brand_generic),
DBTYPE_STR);

          // NewOrder output column 4
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_NEW_ORDER_DATA, ol_i_price),
sizeof(m_txn.NewOrder.OL[0].ol_i_price), DBTYPE_R8);

          // NewOrder output column 5
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_NEW_ORDER_DATA, ol_amount),
sizeof(m_txn.NewOrder.OL[0].ol_amount), DBTYPE_R8);



          // Now fill the binding information for
result set 2 output columns
          InitBindings(&acOutputDBBinding2[0],
nOutputParams2, eOutputColumn);

          i = 0;
          // NewOrder output column 1
          SetBinding(&acOutputDBBinding2[i++],
offsetof(NEW_ORDER_DATA, w_tax),
sizeof(m_txn.NewOrder.w_tax), DBTYPE_R8);

          // NewOrder output column 2
          SetBinding(&acOutputDBBinding2[i++],
offsetof(NEW_ORDER_DATA, d_tax),
sizeof(m_txn.NewOrder.d_tax), DBTYPE_R8);

          // NewOrder output column 3
          SetBinding(&acOutputDBBinding2[i++],
offsetof(NEW_ORDER_DATA, o_id),
sizeof(m_txn.NewOrder.o_id), DBTYPE_I4);

          // NewOrder output column 4
          SetBinding(&acOutputDBBinding2[i++],
offsetof(NEW_ORDER_DATA, c_last),
sizeof(m_txn.NewOrder.c_last), DBTYPE_STR);

          // NewOrder output column 5
          SetBinding(&acOutputDBBinding2[i++],
offsetof(NEW_ORDER_DATA, c_discount),
sizeof(m_txn.NewOrder.c_discount), DBTYPE_R8);

          // NewOrder output column 6
          SetBinding(&acOutputDBBinding2[i++],
offsetof(NEW_ORDER_DATA, c_credit),
sizeof(m_txn.NewOrder.c_credit), DBTYPE_STR);

          // NewOrder output column 7
          SetBinding(&acOutputDBBinding2[i++],
offsetof(NEW_ORDER_DATA, o_entry_d),
sizeof(m_txn.NewOrder.o_entry_d),
DBTYPE_DBTIMESTAMP);

          // NewOrder output column 8
          SetBinding(&acOutputDBBinding2[i++],
offsetof(NEW_ORDER_DATA, o_commit_flag),
sizeof(m_txn.NewOrder.o_commit_flag), DBTYPE_I2);

          for (j=0; j<MAX_OL_NEW_ORDER_ITEMS; j++)
          {
                    // Set command text first

                    // Print the fixed first portion
of parameters
                    i = _snwprintf(szName,
sizeof(szName)/sizeof(szName[0]),

          L"{call %stpcc_neworder (?,?,?,?,?",
m_szSPPrefix);

                    // Now print the variable portion
depending on the number of order line parameters
                    for (iOlCount = 0; iOlCount <= j;
++iOlCount)
                    {
                              i +=
_snwprintf(&szName[i],
sizeof(szName)/sizeof(szName[0]) - i, L",?,?,?");
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    }

                    // Print the fixed end
                    if (j != MAX_OL_NEW_ORDER_ITEMS -
1)
                    {         // append 'default' for
the parameters that are not used
                              i +=
_snwprintf(&szName[i],
sizeof(szName)/sizeof(szName[0]) - i, L",default)}");

                    }
                    else      // using all 15 order
line parameters
                    {
                              i +=
_snwprintf(&szName[i],
sizeof(szName)/sizeof(szName[0]) - i, L")}");
                    }

                    // Create and Prepare a new
command object for NewOrder.
                    CreateCommand(szName,
&m_pINewOrderCommand[j]);

                    // Now create the input accessor
for this prepared command
                    hr = m_pINewOrderCommand[j]-
>QueryInterface(IID_IAccessor, (void **)&pIAccessor);
                    if (FAILED(hr))
                    {

          ThrowError(m_pINewOrderCommand[j],
COLEDBERR::eQueryInterface, "InitNewOrderParams()");
                    }

                    hr = pIAccessor->CreateAccessor(


          DBACCESSOR_PARAMETERDATA,

                                                   5 +
3 * (j + 1),


          acInputDBBinding,


          sizeof(NEW_ORDER_DATA),


          &m_hNewOrderInputAccessor[j],


          acInputDBBindStatus);
                    if (FAILED(hr))
                    {
                              ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor, "InitNewOrderParams()");
                    }

          m_NewOrderExecuteParams[j].cParamSets = 1;
                    //
m_NewOrderExecuteParams.hAccessor is set dynamically
at run-time
                    // based on the number of new
order items for the particular transaction call.

          m_NewOrderExecuteParams[j].hAccessor =
m_hNewOrderInputAccessor[j];
                    m_NewOrderExecuteParams[j].pData
= &m_txn.NewOrder;

                    // Create accessor for the first
rowset
                    hr = pIAccessor->CreateAccessor(
                              DBACCESSOR_ROWDATA |
DBACCESSOR_OPTIMIZED,
                              nOutputParams,
                              acOutputDBBinding,

          sizeof(OL_NEW_ORDER_DATA),

          &m_hNewOrderOutputAccessor[j],
                              acOutputDBBindStatus);
                    if (FAILED(hr))
                    {
                              ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor, "InitNewOrderParams()");
                    }

                    // Create accessor for the second
rowset
                    hr = pIAccessor->CreateAccessor(
                              DBACCESSOR_ROWDATA, //
cannot be optimized too because #1 accessor is
                              nOutputParams2,
                              acOutputDBBinding2,
                              sizeof(NEW_ORDER_DATA),

          &m_hNewOrderOutputAccessor2[j],
                              acOutputDBBindStatus2);
                    if (FAILED(hr))
                    {
                              ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor, "InitNewOrderParams()");
                    }

                    pIAccessor->Release();
          }
}

void CTPCC_OLEDB::NewOrder()
{
          HRESULT                                   hr;
          int
          iTryCount = 0;
          IMultipleResults*   pMultipleResults;
          IRowset*                    pRowset;
          IRowset*                    pRowset2;
          LONG
          cRows = 1;          // number of rows
returned in the 1st rowset
          ULONG
          cRowsObtained;
          HROW
          rghRows;            //returned row handles
for the 1st result set
          HROW*
          prghRows = &rghRows;
          LONG
          cRows2 = 1;         // number of rows
returned in the 2nd rowset
          ULONG
          cRowsObtained2;
          HROW
          rghRows2;           //returned row handle
for the 2nd result set
          HROW*
          prghRows2 = &rghRows2;
          int
          i;
          long
          lRowsAffected;      // the number of
affected rows for a rowset
          int
          iHandleIndex;       // index into the
handle arrays based on the orders count

          // check whether any order lines are for a
remote warehouse
          m_txn.NewOrder.o_all_local = 1;
          for (i = 0; i < m_txn.NewOrder.o_ol_cnt;
i++)
          {
                    if
(m_txn.NewOrder.OL[i].ol_supply_w_id !=
m_txn.NewOrder.w_id)
                    {

          m_txn.NewOrder.o_all_local = 0;  // at
least one remote warehouse
                              break;
                    }
          }

          iHandleIndex = m_txn.NewOrder.o_ol_cnt - 1;
          // for convenience

          while (TRUE)
          {
                    try
                    {
                              // Execute the prepared
command (according to the number of new orders)
                              // Ask for
IMultipleResults because it returns 2 rowsets.
                              hr =
m_pINewOrderCommand[iHandleIndex]->Execute(
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        NULL, IID_IMultipleResults,

        &m_NewOrderExecuteParams[iHandleIndex],

        NULL,

        (IUnknown **)&pMultipleResults);
                        if (FAILED(hr))
                        {
        ThrowError(m_pINewOrderCommand[iHandleIndex
], COLEDBERR::eExecute, "NewOrder()");
                        }

        //////////////////////////
                        // Get order line
results
        //////////////////////////

        m_txn.NewOrder.total_amount = 0;
                        for (i = 0; i <
m_txn.NewOrder.o_ol_cnt; ++i)
                        {
                                // Get the
first rowset object
                                hr =
pMultipleResults->GetResult(NULL, 0, IID_IRowset,
&lRowsAffected, (IUnknown **)&pRowset);
                                if
(FAILED(hr))
                                {

        char szTmp[256];

        _snprintf(szTmp, sizeof(szTmp), "NewOrder()
result set %d, hr=0x%X", i, hr);

        ThrowError(m_pINewOrderCommand[m_txn.NewOrd
er.o_ol_cnt - 1], COLEDBERR::eGetResult, szTmp);
                                }

                                // Fetch the
result row handle(s)
                                hr = pRowset-
>GetNextRows(DB_NULL_HCHAPTER, 0, cRows,
&cRowsObtained, &prghRows);
                                if
(FAILED(hr))
                                {

        ThrowError(m_pINewOrderCommand[iHandleIndex
], COLEDBERR::eGetNextRows, "NewOrder()");
                                }

                                // Fetch the
actual row data by handle
                                hr = pRowset-
>GetData(rghRows,
m_hNewOrderOutputAccessor[iHandleIndex],
&m_txn.NewOrder.OL[i]);
                                if
(FAILED(hr))
                                {

        ThrowError(m_pINewOrderCommand[iHandleIndex
], COLEDBERR::eGetData, "NewOrder()");
                                }

        m_txn.NewOrder.total_amount +=
m_txn.NewOrder.OL[i].ol_amount;

                                // Release
row(s)
                                hr = pRowset-
>ReleaseRows(cRowsObtained, prghRows, NULL, NULL,
NULL);
                                // Release
rowset
                                hr = pRowset-
>Release();
                        }

        ////////////////////////////////
                        // Get the second
rowset object
        ////////////////////////////////
                        hr = pMultipleResults-
>GetResult(NULL, 0, IID_IRowset, &lRowsAffected,
(IUnknown **)&pRowset2);
                        if (FAILED(hr))
                        {
                                char
szTmp[256];

        _snprintf(szTmp, sizeof(szTmp), "NewOrder()
result set %d, hr=%d", i, hr);

        ThrowError(m_pINewOrderCommand[iHandleIndex
], COLEDBERR::eGetResult, szTmp);
                        }

                        // Fetch the result row
handle(s)
                        hr = pRowset2-
>GetNextRows(DB_NULL_HCHAPTER, 0, cRows2,
&cRowsObtained2, &prghRows2);
                        if (FAILED(hr))
                        {

        ThrowError(m_pINewOrderCommand[iHandleIndex
], COLEDBERR::eGetNextRows, "NewOrder()");
                        }

                        // Fetch the actual row
data by handle
                        hr = pRowset2-
>GetData(rghRows2,
m_hNewOrderOutputAccessor2[iHandleIndex],
&m_txn.NewOrder);
                        if (FAILED(hr))
                        {

        ThrowError(m_pINewOrderCommand[iHandleIndex
], COLEDBERR::eGetData, "NewOrder()");
                        }

                        // Release row(s)
                        hr = pRowset2-
>ReleaseRows(cRowsObtained2, prghRows2, NULL, NULL,
NULL);
                        // Release rowset
                        hr = pRowset2-
>Release();

                        // Release the common
MultipleResults interface
                        hr = pMultipleResults-
>Release();

                        if
(m_txn.NewOrder.o_all_local == 1)
                        {

        m_txn.NewOrder.total_amount *= ((1 +
m_txn.NewOrder.w_tax + m_txn.NewOrder.d_tax) * (1 -
m_txn.NewOrder.c_discount));

        m_txn.NewOrder.exec_status_code = eOK;
                        }
                        else
                        {

        m_txn.NewOrder.exec_status_code =
eInvalidItem;
                        }

                        break;

                }
                catch (COLEDBERR *e)
                {
                        if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                throw;

                        // hit deadlock;
backoff for increasingly longer period
                        delete e;
                        Sleep(10 * iTryCount);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    }
          }

//        if (iTryCount)
//                  throw new
CTPCC_OLEDB_ERR(CTPCC_OLEDB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_OLEDB::InitPaymentParams()
{
          int
                    i;
          HRESULT
          hr;
          wchar_t
          szName[iMAX_SP_NAME_LEN];
          IAccessor*
          pIAccessor;
    const ULONG
          nInputParams = 7;   // input parameters
          const ULONG
          nOutputParams = 27; // output result set
columns
          // Structure to bind in accessor
          DBBINDING
          acInputDBBinding[nInputParams];
          DBBINDSTATUS
          acInputDBBindStatus[nInputParams];
          DBBINDING
          acOutputDBBinding[nOutputParams];
          DBBINDSTATUS
          acOutputDBBindStatus[nOutputParams];

          // Set command text
          _snwprintf(szName,
sizeof(szName)/sizeof(szName[0]), L"{call
%stpcc_payment(?,?,?,?,?,?,?)}", m_szSPPrefix);

          // Create and Prepare a new command object
for Payment.
          CreateCommand(szName, &m_pIPaymentCommand);


          // Describe the consumer buffer by filling
in the array
    // of DBBINDING structures.  Each binding
associates
    // a single parameter to the consumer's buffer.
          InitBindings(&acInputDBBinding[0],
nInputParams, eInputParameter);

          i = 0;
    // Payment parameter 1
          SetBinding(&acInputDBBinding[i++],
offsetof(PAYMENT_DATA, w_id),
sizeof(m_txn.Payment.w_id), DBTYPE_I4);

    // Payment parameter 2
          SetBinding(&acInputDBBinding[i++],
offsetof(PAYMENT_DATA, c_w_id),
sizeof(m_txn.Payment.c_w_id), DBTYPE_I4);

          // Payment parameter 3
          SetBinding(&acInputDBBinding[i++],
offsetof(PAYMENT_DATA, h_amount),
sizeof(m_txn.Payment.h_amount), DBTYPE_R8);

    // Payment parameter 4
          SetBinding(&acInputDBBinding[i++],
offsetof(PAYMENT_DATA, d_id),
sizeof(m_txn.Payment.d_id), DBTYPE_UI1);

          // Payment parameter 5
          SetBinding(&acInputDBBinding[i++],
offsetof(PAYMENT_DATA, c_d_id),
sizeof(m_txn.Payment.c_d_id), DBTYPE_UI1);

          // Payment parameter 6
          SetBinding(&acInputDBBinding[i++],
offsetof(PAYMENT_DATA, c_id),
sizeof(m_txn.Payment.c_id), DBTYPE_I4);

          // Payment parameter 7
          SetBinding(&acInputDBBinding[i++],
offsetof(PAYMENT_DATA, c_last),
sizeof(m_txn.Payment.c_last), DBTYPE_STR);

          hr = m_pIPaymentCommand-
>QueryInterface(IID_IAccessor, (void **)&pIAccessor);
          if (FAILED(hr))
          {
                    ThrowError(m_pIPaymentCommand,
COLEDBERR::eQueryInterface, "InitPaymentParams()");
          }

          hr = pIAccessor->CreateAccessor(
                              DBACCESSOR_PARAMETERDATA,
                              nInputParams,
                              acInputDBBinding,
                              sizeof(PAYMENT_DATA),
                              &m_hPaymentInputAccessor,
                              acInputDBBindStatus);
          if (FAILED(hr))
          {
                    ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor, "InitPaymentParams()");
          }

          m_PaymentExecuteParams.cParamSets = 1;
          m_PaymentExecuteParams.hAccessor =
m_hPaymentInputAccessor;
          m_PaymentExecuteParams.pData =
&m_txn.Payment;

          // Now fill the binding information for
output columns
          InitBindings(&acOutputDBBinding[0],
nOutputParams, eOutputColumn);

          i = 0;
          // Payment output column 1
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_id),
sizeof(m_txn.Payment.c_id), DBTYPE_I4);

          // Payment output column 2
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_last),
sizeof(m_txn.Payment.c_last), DBTYPE_STR);

          // Payment output column 3
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, h_date),
sizeof(m_txn.Payment.h_date), DBTYPE_DBTIMESTAMP);

          // Payment output column 4
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, w_street_1),
sizeof(m_txn.Payment.w_street_1), DBTYPE_STR);

          // Payment output column 5
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, w_street_2),
sizeof(m_txn.Payment.w_street_2), DBTYPE_STR);

          // Payment output column 6
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, w_city),
sizeof(m_txn.Payment.w_city), DBTYPE_STR);

          // Payment output column 7
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, w_state),
sizeof(m_txn.Payment.w_state), DBTYPE_STR);

          // Payment output column 8
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, w_zip),
sizeof(m_txn.Payment.w_zip), DBTYPE_STR);

          // Payment output column 9
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_street_1),
sizeof(m_txn.Payment.d_street_1), DBTYPE_STR);

          // Payment output column 10
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_street_2),
sizeof(m_txn.Payment.d_street_2), DBTYPE_STR);

          // Payment output column 11
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_city),
sizeof(m_txn.Payment.d_city), DBTYPE_STR);

          // Payment output column 12
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_state),
sizeof(m_txn.Payment.d_state), DBTYPE_STR);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          // Payment output column 13
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_zip),
sizeof(m_txn.Payment.d_zip), DBTYPE_STR);

          // Payment output column 14
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_first),
sizeof(m_txn.Payment.c_first), DBTYPE_STR);

          // Payment output column 15
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_middle),
sizeof(m_txn.Payment.c_middle), DBTYPE_STR);

          // Payment output column 16
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_street_1),
sizeof(m_txn.Payment.d_street_1), DBTYPE_STR);

          // Payment output column 17
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_street_2),
sizeof(m_txn.Payment.d_street_2), DBTYPE_STR);

          // Payment output column 18
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_city),
sizeof(m_txn.Payment.d_city), DBTYPE_STR);

          // Payment output column 19
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_state),
sizeof(m_txn.Payment.d_state), DBTYPE_STR);

          // Payment output column 20
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, d_zip),
sizeof(m_txn.Payment.d_zip), DBTYPE_STR);

          // Payment output column 21
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_phone),
sizeof(m_txn.Payment.c_phone), DBTYPE_STR);

          // Payment output column 22
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_since),
sizeof(m_txn.Payment.c_since), DBTYPE_DBTIMESTAMP);

          // Payment output column 23
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_credit),
sizeof(m_txn.Payment.c_credit), DBTYPE_STR);

          // Payment output column 24
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_credit_lim),
sizeof(m_txn.Payment.c_credit_lim), DBTYPE_R8);

          // Payment output column 25
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_discount),
sizeof(m_txn.Payment.c_discount), DBTYPE_R8);

          // Payment output column 26
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_balance),
sizeof(m_txn.Payment.c_balance), DBTYPE_R8);

          // Payment output column 27
          SetBinding(&acOutputDBBinding[i++],
offsetof(PAYMENT_DATA, c_data),
sizeof(m_txn.Payment.c_data), DBTYPE_STR);

          hr = pIAccessor->CreateAccessor(
                              DBACCESSOR_ROWDATA |
DBACCESSOR_OPTIMIZED,
                              nOutputParams,
                              acOutputDBBinding,
                              sizeof(PAYMENT_DATA),

&m_hPaymentOutputAccessor,
                              acOutputDBBindStatus);
          if (FAILED(hr))
          {
                    ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor, "InitPaymentParams()");
          }
}

void CTPCC_OLEDB::Payment()
{
          HRESULT                         hr;
          int
          iTryCount = 0;
          IRowset*            pRowset;
          LONG                            cRows = 1;
          // number of rows returned in the rowset
          ULONG
          cRowsObtained;
          HROW                            rghRow;
          //returned row handles
          HROW*                           prghRow =
&rghRow;


          if (m_txn.Payment.c_id != 0)
                    m_txn.Payment.c_last[0] = 0;

          while (TRUE)
          {
                    try
                    {
                              // Execute the prepared
command
                              hr =
m_pIPaymentCommand->Execute(NULL, IID_IRowset,
&m_PaymentExecuteParams, NULL,


          (IUnknown **)&pRowset);
                              if (FAILED(hr))
                              {

          ThrowError(m_pIPaymentCommand,
COLEDBERR::eExecute, "Payment()");
                              }

                              // Fetch the result row
handle(s)
                              hr = pRowset-
>GetNextRows(DB_NULL_HCHAPTER, 0, cRows,
&cRowsObtained, &prghRow);
                              if (FAILED(hr))
                              {

          ThrowError(m_pIPaymentCommand,
COLEDBERR::eGetNextRows, "Payment()");
                              }

                              // Fetch the actual row
data by handle
                              hr = pRowset-
>GetData(rghRow, m_hPaymentOutputAccessor,
&m_txn.Payment);
                              if (FAILED(hr))
                              {

          ThrowError(m_pIPaymentCommand,
COLEDBERR::eGetData, "Payment()");
                              }

                              // Release row(s)
                              hr = pRowset-
>ReleaseRows(cRowsObtained, prghRow, NULL, NULL,
NULL);
                              // Release rowset
                              hr = pRowset-
>Release();

                              if (m_txn.Payment.c_id
== 0)
                                        throw new
CTPCC_OLEDB_ERR( CTPCC_OLEDB_ERR::ERR_INVALID_CUST );
                              else

          m_txn.Payment.exec_status_code = eOK;

                              break;
                    }
                    catch (COLEDBERR *e)
                    {
                              if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                        throw;

                              // hit deadlock;
backoff for increasingly longer period
                              delete e;
                              Sleep(10 * iTryCount);
                    }
          }
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
//        if (iTryCount)
//                  throw new
CTPCC_OLEDB_ERR(CTPCC_OLEDB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_OLEDB::InitOrderStatusParams()
{
          int
                    i;
          HRESULT
          hr;
          wchar_t
          szName[iMAX_SP_NAME_LEN];
          IAccessor*
          pIAccessor;
    const ULONG
          nInputParams = 4;   // input parameters
          const ULONG
          nOutputParams = 5;  // output 1st result
set columns
          const ULONG
          nOutputParams2 = 8; // output 2nd result
set columns
          // Structure to bind in accessor
          DBBINDING
          acInputDBBinding[nInputParams];
          DBBINDSTATUS
          acInputDBBindStatus[nInputParams];
          DBBINDING
          acOutputDBBinding[nOutputParams];
          DBBINDSTATUS
          acOutputDBBindStatus[nOutputParams];
          DBBINDING
          acOutputDBBinding2[nOutputParams2];
          DBBINDSTATUS
          acOutputDBBindStatus2[nOutputParams2];

          // Set command text
          _snwprintf(szName,
sizeof(szName)/sizeof(szName[0]),
                              L"{call
%stpcc_orderstatus (?,?,?,?)}", m_szSPPrefix);

          // Create and Prepare a new command object
for OrderStatus.
          CreateCommand(szName,
&m_pIOrderStatusCommand);

          // Describe the consumer buffer by filling
in the array
    // of DBBINDING structures.  Each binding
associates
    // a single parameter to the consumer's buffer.
          InitBindings(&acInputDBBinding[0],
nInputParams, eInputParameter);

          i = 0;
    // OrderStatus parameter 1
          SetBinding(&acInputDBBinding[i++],
offsetof(ORDER_STATUS_DATA, w_id),
sizeof(m_txn.OrderStatus.w_id), DBTYPE_I4);

    // OrderStatus parameter 2
          SetBinding(&acInputDBBinding[i++],
offsetof(ORDER_STATUS_DATA, d_id),
sizeof(m_txn.OrderStatus.d_id), DBTYPE_UI1);

          // OrderStatus parameter 3
          SetBinding(&acInputDBBinding[i++],
offsetof(ORDER_STATUS_DATA, c_id),
sizeof(m_txn.OrderStatus.c_id), DBTYPE_I4);

          // OrderStatus parameter 4
          SetBinding(&acInputDBBinding[i++],
offsetof(ORDER_STATUS_DATA, c_last),
sizeof(m_txn.OrderStatus.c_last), DBTYPE_STR);

          hr = m_pIOrderStatusCommand-
>QueryInterface(IID_IAccessor, (void **)&pIAccessor);
          if (FAILED(hr))
          {

          ThrowError(m_pIOrderStatusCommand,
COLEDBERR::eQueryInterface,
"InitOrderStatusParams()");
          }

          hr = pIAccessor->CreateAccessor(
                              DBACCESSOR_PARAMETERDATA,
                              nInputParams,
                              acInputDBBinding,

sizeof(ORDER_STATUS_DATA),

&m_hOrderStatusInputAccessor,
                              acInputDBBindStatus);
          if (FAILED(hr))
          {
                    ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor,
"InitOrderStatusParams()");
          }

          m_OrderStatusExecuteParams.cParamSets = 1;
          m_OrderStatusExecuteParams.hAccessor =
m_hOrderStatusInputAccessor;
          m_OrderStatusExecuteParams.pData =
&m_txn.OrderStatus;

          // Now fill the binding information for
result set 1 output columns
          InitBindings(&acOutputDBBinding[0],
nOutputParams, eOutputColumn);

          // Binding for a rowset that may return
more than one row.
          // Bind to offsets of the
OL_ORDER_STATUS_DATA structure instead of
ORDER_STATUS_DATA.
          // IRowset::GetData() will be passed
individual array slots OL[i] to fetch the data
          // from the row set.

          i = 0;
          // OrderStatus output column 1
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_ORDER_STATUS_DATA, ol_supply_w_id),
sizeof(m_txn.OrderStatus.OL[0].ol_supply_w_id),
DBTYPE_I4);

          // OrderStatus output column 2
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_ORDER_STATUS_DATA, ol_i_id),
sizeof(m_txn.OrderStatus.OL[0].ol_i_id), DBTYPE_I4);

          // OrderStatus output column 3
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_ORDER_STATUS_DATA, ol_quantity),
sizeof(m_txn.OrderStatus.OL[0].ol_quantity),
DBTYPE_I2);

          // OrderStatus output column 4
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_ORDER_STATUS_DATA, ol_amount),
sizeof(m_txn.OrderStatus.OL[0].ol_amount),
DBTYPE_R8);

          // OrderStatus output column 5
          SetBinding(&acOutputDBBinding[i++],
offsetof(OL_ORDER_STATUS_DATA, ol_delivery_d),
sizeof(m_txn.OrderStatus.OL[0].ol_delivery_d),
DBTYPE_DBTIMESTAMP);

          hr = pIAccessor->CreateAccessor(
                              DBACCESSOR_ROWDATA |
DBACCESSOR_OPTIMIZED,
                              nOutputParams,
                              acOutputDBBinding,

sizeof(OL_ORDER_STATUS_DATA),

&m_hOrderStatusOutputAccessor,
                              acOutputDBBindStatus);
          if (FAILED(hr))
          {
                    ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor,
"InitOrderStatusParams()");
          }

          // Now fill the binding information for
result set 2 output columns
          InitBindings(&acOutputDBBinding2[0],
nOutputParams2, eOutputColumn);

          i = 0;
          // OrderStatus output column 1
          SetBinding(&acOutputDBBinding2[i++],
offsetof(ORDER_STATUS_DATA, c_id),
sizeof(m_txn.OrderStatus.c_id), DBTYPE_I4);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        // OrderStatus output column 2
        SetBinding(&acOutputDBBinding2[i++],
offsetof(ORDER_STATUS_DATA, c_last),
sizeof(m_txn.OrderStatus.c_last), DBTYPE_STR);

        // OrderStatus output column 3
        SetBinding(&acOutputDBBinding2[i++],
offsetof(ORDER_STATUS_DATA, c_first),
sizeof(m_txn.OrderStatus.c_first), DBTYPE_STR);

        // OrderStatus output column 4
        SetBinding(&acOutputDBBinding2[i++],
offsetof(ORDER_STATUS_DATA, c_middle),
sizeof(m_txn.OrderStatus.c_middle), DBTYPE_STR);

        // OrderStatus output column 5
        SetBinding(&acOutputDBBinding2[i++],
offsetof(ORDER_STATUS_DATA, o_entry_d),
sizeof(m_txn.OrderStatus.o_entry_d),
DBTYPE_DBTIMESTAMP);

        // OrderStatus output column 7
        SetBinding(&acOutputDBBinding2[i++],
offsetof(ORDER_STATUS_DATA, o_carrier_id),
sizeof(m_txn.OrderStatus.o_carrier_id), DBTYPE_I2);

        // OrderStatus output column 8
        SetBinding(&acOutputDBBinding2[i++],
offsetof(ORDER_STATUS_DATA, c_balance),
sizeof(m_txn.OrderStatus.c_balance), DBTYPE_R8);

        // OrderStatus output column 9
        SetBinding(&acOutputDBBinding2[i++],
offsetof(ORDER_STATUS_DATA, o_id),
sizeof(m_txn.OrderStatus.o_id), DBTYPE_I4);

        hr = pIAccessor->CreateAccessor(
                        DBACCESSOR_ROWDATA, //
cannot be optimized too because #1 accessor is
                        nOutputParams2,
                        acOutputDBBinding2,
                        sizeof(NEW_ORDER_DATA),

&m_hOrderStatusOutputAccessor2,
                        acOutputDBBindStatus2);
        if (FAILED(hr))
        {
                ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor,
"InitOrderStatusParams()");
        }
}

void CTPCC_OLEDB::OrderStatus()
{
        HRESULT                                 hr;
        int
        iTryCount = 0;
        IMultipleResults*   pMultipleResults;
        IRowset*                        pRowset;
        IRowset*                        pRowset2;
        LONG
        cRows = MAX_OL_ORDER_STATUS_ITEMS;      //
number of rows returned in the 1st rowset
        ULONG
        cRowsObtained;
        HROW
        rghRows[MAX_OL_ORDER_STATUS_ITEMS];
        //returned row handles for the 1st result
set
        HROW*
        prghRows = &rghRows[0];
        LONG
        cRows2 = 1;         // number of rows
returned in the 2nd rowset
        ULONG
        cRowsObtained2;
        HROW
        rghRows2;           //returned row handle
for the 2nd result set
        HROW*
        prghRows2 = &rghRows2;
        int
        i;
        long
        lRowsAffected;      // the number of
affected rows for a rowset

        if (m_txn.OrderStatus.c_id != 0)
                m_txn.OrderStatus.c_last[0] = 0;

        while (TRUE)
        {
                try
                {
                        // Execute the prepared
command
                        // Ask for
IMultipleResults because it returns 2 rowsets.
                        hr =
m_pIOrderStatusCommand->Execute(NULL,
IID_IMultipleResults, &m_OrderStatusExecuteParams,
NULL,


        (IUnknown **)&pMultipleResults);
                        if (FAILED(hr))
                        {

        ThrowError(m_pIOrderStatusCommand,
COLEDBERR::eExecute, "OrderStatus()");
                        }


        ////////////////////////////
                        // Get order line
results

        ////////////////////////////
                        // Get the first rowset
object
                        hr = pMultipleResults-
>GetResult(NULL, 0, IID_IRowset, &lRowsAffected,
(IUnknown **)&pRowset);
                        if (FAILED(hr))
                        {

        ThrowError(m_pIOrderStatusCommand,
COLEDBERR::eGetResult, "OrderStatus()");
                        }

                        // Fetch the result row
handle(s)
                        hr = pRowset-
>GetNextRows(DB_NULL_HCHAPTER, 0, cRows,
&cRowsObtained, &prghRows);
                        if (FAILED(hr))
                        {

        ThrowError(m_pIOrderStatusCommand,
COLEDBERR::eGetNextRows, "OrderStatus()");
                        }


        m_txn.OrderStatus.o_ol_cnt =
(short)cRowsObtained;

                        // Get the data from
multiple rows in this rowset
                        for (i = 0; i <
m_txn.OrderStatus.o_ol_cnt; ++i)
                        {
                                // Fetch the
actual row data by handle
                                hr = pRowset-
>GetData(rghRows[i], m_hOrderStatusOutputAccessor,
&m_txn.OrderStatus.OL[i]);
                                if
(FAILED(hr))
                                {

        ThrowError(m_pIOrderStatusCommand,
COLEDBERR::eGetData, "OrderStatus()");
                                }
                        }

                        // Release row(s)
                        hr = pRowset-
>ReleaseRows(cRowsObtained, prghRows, NULL, NULL,
NULL);
                        // Release rowset
                        hr = pRowset-
>Release();


        ////////////////////////////////
                        // Get the second
rowset object

        ////////////////////////////////
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                if
(m_txn.OrderStatus.o_ol_cnt > 0)
                                {
                                        hr =
pMultipleResults->GetResult(NULL, 0, IID_IRowset,
&lRowsAffected, (IUnknown **)&pRowset2);
                                        if
(FAILED(hr))
                                        {

          ThrowError(m_pIOrderStatusCommand,
COLEDBERR::eGetResult, "OrderStatus()");
                                        }

                                        // Fetch the
result row handle(s)
                                        hr =
pRowset2->GetNextRows(DB_NULL_HCHAPTER, 0, cRows2,
&cRowsObtained2, &prghRows2);
                                        if
(FAILED(hr))
                                        {

          ThrowError(m_pIOrderStatusCommand,
COLEDBERR::eGetNextRows, "OrderStatus()");
                                        }

                                        // Fetch the
actual row data by handle
                                        hr =
pRowset2->GetData(rghRows2,
m_hOrderStatusOutputAccessor2, &m_txn.OrderStatus);
                                        if
(FAILED(hr))
                                        {

          ThrowError(m_pIOrderStatusCommand,
COLEDBERR::eGetData, "OrderStatus()");
                                        }

                                        // Release
row(s)
                                        hr =
pRowset2->Release();
                                }

                                // Release the common
MultipleResults interface
                                hr = pMultipleResults-
>Release();

                                if
(m_txn.OrderStatus.o_ol_cnt == 0)
                                        throw new
CTPCC_OLEDB_ERR( CTPCC_OLEDB_ERR::ERR_NO_SUCH_ORDER
);
                                else if
(m_txn.OrderStatus.c_id == 0 &&
m_txn.OrderStatus.c_last[0] == 0)
                                        throw new
CTPCC_OLEDB_ERR( CTPCC_OLEDB_ERR::ERR_INVALID_CUST );
                                else

          m_txn.OrderStatus.exec_status_code = eOK;

                                        break;

                        }
                        catch (COLEDBERR *e)
                        {
                                        if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
                                                throw;

                                        // hit deadlock;
backoff for increasingly longer period
                                        delete e;
                                        Sleep(10 * iTryCount);
                        }
          }

//        if (iTryCount)
//                throw new
CTPCC_OLEDB_ERR(CTPCC_OLEDB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_OLEDB::InitDeliveryParams()
{
          int
                i;
          HRESULT
          hr;
          wchar_t
          szName[iMAX_SP_NAME_LEN];
          IAccessor*
          pIAccessor;
    const ULONG
          nInputParams = 2;   // input parameters
          const ULONG
          nOutputParams = 10; // output 1st result
set columns
          // Structure to bind in accessor
          DBBINDING
          acInputDBBinding[nInputParams];
          DBBINDSTATUS
          acInputDBBindStatus[nInputParams];
          DBBINDING
          acOutputDBBinding[nOutputParams];
          DBBINDSTATUS
          acOutputDBBindStatus[nOutputParams];

          // Set command text
          _snwprintf(szName,
sizeof(szName)/sizeof(szName[0]),
                                L"{call %stpcc_delivery
(?,?)}", m_szSPPrefix);

          // Create and Prepare a new command object
for Delivery.
          CreateCommand(szName,
&m_pIDeliveryCommand);

          // Describe the consumer buffer by filling
in the array
    // of DBBINDING structures.  Each binding
associates
    // a single parameter to the consumer's buffer.
          InitBindings(&acInputDBBinding[0],
nInputParams, eInputParameter);

          i = 0;
    // Delivery parameter 1
          SetBinding(&acInputDBBinding[i++],
offsetof(DELIVERY_DATA, w_id),
sizeof(m_txn.Delivery.w_id), DBTYPE_I4);

    // Delivery parameter 2
          SetBinding(&acInputDBBinding[i++],
offsetof(DELIVERY_DATA, o_carrier_id),
sizeof(m_txn.Delivery.o_carrier_id), DBTYPE_I2);

          hr = m_pIDeliveryCommand-
>QueryInterface(IID_IAccessor, (void **)&pIAccessor);
          if (FAILED(hr))
          {
                    ThrowError(m_pIDeliveryCommand,
COLEDBERR::eQueryInterface, "InitDeliveryParams()");
          }

          hr = pIAccessor->CreateAccessor(
                              DBACCESSOR_PARAMETERDATA,
                              nInputParams,
                              acInputDBBinding,
                              sizeof(DELIVERY_DATA),

&m_hDeliveryInputAccessor,
                              acInputDBBindStatus);
          if (FAILED(hr))
          {
                    ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor, "InitDeliveryParams()");
          }

          m_DeliveryExecuteParams.cParamSets = 1;
          m_DeliveryExecuteParams.hAccessor =
m_hDeliveryInputAccessor;
          m_DeliveryExecuteParams.pData =
&m_txn.Delivery;

          // Now fill the binding information for
result set 1 output columns
          InitBindings(&acOutputDBBinding[0],
nOutputParams, eOutputColumn);

          // Binding for a rowset that may return
more than one row.
          for (i = 0; i < 10; ++i)
          {
                    // Delivery output column 1
                    SetBinding(&acOutputDBBinding[i],
offsetof(DELIVERY_DATA, o_id[i]),
sizeof(m_txn.Delivery.o_id[i]), DBTYPE_I4);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
	}

	hr = pIAccessor->CreateAccessor(
				DBACCESSOR_ROWDATA |
DBACCESSOR_OPTIMIZED,
				nOutputParams,
				acOutputDBBinding,
				sizeof(DELIVERY_DATA),
&m_hDeliveryOutputAccessor,
				acOutputDBBindStatus);
	if (FAILED(hr))
	{
		ThrowError(pIAccessor,
COLEDBERR::eCreateAccessor, "InitDeliveryParams()");
	}
}

void CTPCC_OLEDB::Delivery()
{
	HRESULT				hr;
	int
	iTryCount = 0;
	IRowset*		pRowset;
	LONG				cRows = 1;
	// number of rows returned in the rowset
	ULONG
	cRowsObtained;
	HROW				rghRow;
	//returned row handles
	HROW*				prghRow =
&rghRow;

	while (TRUE)
	{
		try
		{
				// Execute the prepared
command
				hr =
m_pIDeliveryCommand->Execute(NULL, IID_IRowset,
&m_DeliveryExecuteParams, NULL,

	(IUnknown **)&pRowset);
				if (FAILED(hr))
				{

	ThrowError(m_pIDeliveryCommand,
COLEDBERR::eExecute, "Delivery()");
				}

				// Fetch the result row
handle(s)
				hr = pRowset-
>GetNextRows(DB_NULL_HCHAPTER, 0, cRows,
&cRowsObtained, &prghRow);
				if (FAILED(hr))
				{

	ThrowError(m_pIDeliveryCommand,
COLEDBERR::eGetNextRows, "Delivery()");
				}

				// Fetch the actual row
data by handle
				hr = pRowset-
>GetData(rghRow, m_hDeliveryOutputAccessor,
&m_txn.Delivery);
				if (FAILED(hr))
				{

	ThrowError(m_pIDeliveryCommand,
COLEDBERR::eGetData, "Delivery()");
				}

				// Release row(s)
				hr = pRowset-
>ReleaseRows(cRowsObtained, prghRow, NULL, NULL,
NULL);
				// Release rowset
				hr = pRowset-
>Release();


	m_txn.Delivery.exec_status_code = eOK;

				break;
			}
			catch (COLEDBERR *e)
			{
				if ((!e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
					throw;

				// hit deadlock;
backoff for increasingly longer period
				delete e;
				Sleep(10 * iTryCount);
			}
		}

//		if (iTryCount)
//			throw new
CTPCC_OLEDB_ERR(CTPCC_OLEDB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}
```

tpcc_oledb.h

```
/*		FILE:			TPCC_OLEDB.H
 *					Microsoft
TPC-C Kit Ver. 4.20.000
 *					Copyright
Microsoft, 1999-2004
 *					Written by
Sergey Vasilevskiy
 *		All Rights Reserved
 *
 *
 *		PURPOSE:  Header file for TPC-C txn class
OLE DB implementation.
 *
 *
 */
#pragma once

// need to declare functions for import, unless
define has already been created
// by the DLL's .cpp module for export.
#ifndef DllDecl
#define DllDecl  __declspec( dllimport )
#endif

#define iMAX_SP_NAME_LEN 256  //maximum length of a
stored procedure name with parameters

// Type of parameter and result set column bindings.
enum eBindingType
{
	eInputParameter,
	eOutputParameter,
	eInputOutputParameter,
	eOutputColumn
};

class COLEDBERR : public CBaseErr
{
	public:
		enum ACTION
		{
			eNone,
			eUnknown,
			eQueryInterface,
		// error from QueryInterface
			eCreateSession,
			eCreateCommand,
			eSetCommandText,
			eExecute,
	// = 6
			eCreateAccessor,
			ePrepare,
			eGetNextRows,
			eGetData,
			eGetResult
		// = 11
		};

		COLEDBERR(LPCTSTR szLoc)
			: CBaseErr(szLoc)
		{
			m_eAction = eNone;
			m_NativeError = 0;
			m_bDeadLock = FALSE;
			m_OLEDBErrStr = NULL;
		};

		~COLEDBERR()
		{
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                              if (m_OLEDBErrStr !=
NULL)
                                        delete []
m_OLEDBErrStr;
                    };

                    ACTION    m_eAction;
                    int
          m_NativeError;
                    BOOL      m_bDeadLock;
                    char   *m_OLEDBErrStr;

                    int                 ErrorType()
{return ERR_TYPE_OLEDB;};
                    char*     ErrorTypeStr() { return
"OLEDB"; }
                    int                 ErrorNum()
{return m_NativeError;};
                    char*     ErrorText() {return
m_OLEDBErrStr;};
                    int                 ErrorAction()
{ return (int)m_eAction; }

};

class CTPCC_OLEDB_ERR : public CBaseErr
{
          public:
                    enum TPCC_OLEDB_ERRS
                    {
                              ERR_WRONG_SP_VERSION =
1,        // "Wrong version of stored procs on
database server"
                              ERR_INVALID_CUST,
                    // "Invalid Customer id,name."
                              ERR_NO_SUCH_ORDER,
                    // "No orders found for
customer."
                              ERR_RETRIED_TRANS,
                    // "Retries before transaction
succeeded."
                    };

                    CTPCC_OLEDB_ERR( int iErr ) {
m_errno = iErr; m_iTryCount = 0; };

                    CTPCC_OLEDB_ERR( int iErr, int
iTryCount ) { m_errno = iErr; m_iTryCount =
iTryCount; };

                    int                 m_errno;
                    int                 m_iTryCount;

                    int                 ErrorType()
{return ERR_TYPE_TPCC_OLEDB;};
                    char*     ErrorTypeStr() { return
"TPCC OLEDB"; }
                    int                 ErrorNum()
{return m_errno;};

                    char*     ErrorText();
};

class DllDecl CTPCC_OLEDB : public CTPCC_BASE
{
          private:
                    // declare variables and private
functions here...
                    BOOL
                    m_bDeadlock;                //
transaction was selected as deadlock victim
                    int
                              m_MaxRetries;
          // retry count on deadlock

                    DBPROPSET
                    m_rgInitPropSet;            //
initialization property set used to establish a
connection
                    DBPROP
                    m_InitProperties[4];        //
individual initialization properties

                    IDBCreateSession*
          m_pIDBCreateSession;          // session
(connection) interface
                    IDBCreateCommand*
          m_pIDBCreateCommand;          // SQL
command creation interface

                    IMalloc*
          m_pIMalloc;
          // Needed to release error strings.

                    // StockLevel
                    ICommandText*
          m_pIStockLevelCommand;
                    HACCESSOR
          m_hStockLevelInputAccessor;   // accessor
to bind input parameters
                    HACCESSOR
          m_hStockLevelOutputAccessor;  // accessor
to bind output columns
                    DBPARAMS
          m_StockLevelExecuteParams;            //
parameter structure for Execute

                    // NewOrder
                    // One prepared command for each
possible number of new order line items
                    ICommandText*
          m_pINewOrderCommand[MAX_OL_NEW_ORDER_ITEMS]
;
                    // accessors to bind input
parameters
                    // one for each possible number
of new order line items
                    HACCESSOR
          m_hNewOrderInputAccessor[MAX_OL_NEW_ORDER_I
TEMS];
                    // accessor to bind output
columns of the first rowset
                    HACCESSOR
          m_hNewOrderOutputAccessor[MAX_OL_NEW_ORDER_
ITEMS];
                    // accessor to bind output
columns of the second rowset
                    HACCESSOR
          m_hNewOrderOutputAccessor2[MAX_OL_NEW_ORDER
_ITEMS];
                    // parameter structure for
Execute
                    DBPARAMS
          m_NewOrderExecuteParams[MAX_OL_NEW_ORDER_IT
EMS];

                    // Payment
                    ICommandText*
          m_pIPaymentCommand;
                    HACCESSOR
          m_hPaymentInputAccessor;      // accessor
to bind input parameters
                    HACCESSOR
          m_hPaymentOutputAccessor;     // accessor
to bind output columns
                    DBPARAMS
          m_PaymentExecuteParams;                 //
parameter structure for Execute

                    // OrderStatus
                    ICommandText*
          m_pIOrderStatusCommand;
                    HACCESSOR
          m_hOrderStatusInputAccessor;  // accessor
to bind input parameters
                    HACCESSOR
          m_hOrderStatusOutputAccessor; // accessor
to bind output columns
                    HACCESSOR
          m_hOrderStatusOutputAccessor2;          //
accessor to bind output columns
                    DBPARAMS
          m_OrderStatusExecuteParams;             //
parameter structure for Execute

                    // Delivery
                    ICommandText*
          m_pIDeliveryCommand;
                    HACCESSOR
          m_hDeliveryInputAccessor;     // accessor
to bind input parameters
                    HACCESSOR
          m_hDeliveryOutputAccessor;    // accessor
to bind output columns
                    DBPARAMS
          m_DeliveryExecuteParams;      // parameter
structure for Execute

                    wchar_t
                    m_szSPPrefix[32];   // stored
procedures prefix
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    // new-order specific fields

                    int
                              m_no_commit_flag;

                    void ThrowError( IUnknown*
pObjectWithError, COLEDBERR::ACTION eAction, LPCTSTR
szLocation );

                    void CheckSPVersion();

                    void InitNewOrderParams();
                    void InitPaymentParams();
                    void InitDeliveryParams();
                    void InitStockLevelParams();
                    void InitOrderStatusParams();

                    // Helper function to create and
prepare a command
                    void CreateCommand(wchar_t*
szSQLCommand, ICommandText** ppICommandText);
                    // Helper function to prepare a
command
                    void PrepareCommand(ICommandText*
pICommand);

                    // Helper function to fill one
binding
                    // Used for both input parameter
and output column bindings
                    void SetBinding(DBBINDING*
pDBBinding, size_t obValue, size_t cbMaxLen, DBTYPE
wType);

                    // Helper function to initialize
an array of bindings
                    void InitBindings(DBBINDING*
pDBBindings, int iCount, eBindingType BindingType);

                    union
                    {
                              NEW_ORDER_DATA
          NewOrder;
                              PAYMENT_DATA
          Payment;
                              DELIVERY_DATA
          Delivery;
                              STOCK_LEVEL_DATA
          StockLevel;
                              ORDER_STATUS_DATA
          OrderStatus;
                    }
          m_txn;

          public:
                    CTPCC_OLEDB(LPCSTR szServer,
LPCSTR szUser, LPCSTR szPassword, LPCSTR szHost,
LPCSTR szDatabase, LPCWSTR szSPPrefix);
                    ~CTPCC_OLEDB(void);
                              inline PNEW_ORDER_DATA
          BuffAddr_NewOrder()           { return
&m_txn.NewOrder;    };
                              inline PPAYMENT_DATA
          BuffAddr_Payment()            { return
&m_txn.Payment;     };
                              inline PDELIVERY_DATA
          BuffAddr_Delivery()           { return
&m_txn.Delivery;    };
                              inline PSTOCK_LEVEL_DATA
          BuffAddr_StockLevel()         { return
&m_txn.StockLevel;  };
                              inline PORDER_STATUS_DATA
          BuffAddr_OrderStatus()        { return
&m_txn.OrderStatus; };

                              void NewOrder                 ();
                              void Payment                  ();
                              void Delivery                 ();
                              void StockLevel               ();
                              void OrderStatus    ();

};


// wrapper routine for class constructor
extern "C" DllDecl CTPCC_OLEDB* CTPCC_OLEDB_new
          ( LPCSTR szServer, LPCSTR szUser, LPCSTR
szPassword, LPCSTR szHost, LPCSTR szDatabase, LPCWSTR
szSPPrefix );

typedef CTPCC_OLEDB* (TYPE_CTPCC_OLEDB)(LPCSTR,
LPCSTR, LPCSTR, LPCSTR, LPCSTR, LPCWSTR);
```

tpcc_com_all\resource.h

```
//{{NO_DEPENDENCIES}}
// Microsoft Developer Studio generated include file.
// Used by tpcc_com_all.rc
//
#define IDS_PROJNAME                    100
#define IDR_TPCC                        101
#define IDR_NEWORDER                    102
#define IDR_ORDERSTATUS                 103
#define IDR_PAYMENT                     104
#define IDR_STOCKLEVEL                  105

// Next default values for new objects
//
#ifdef APSTUDIO_INVOKED
#ifndef APSTUDIO_READONLY_SYMBOLS
#define _APS_NEXT_RESOURCE_VALUE        202
#define _APS_NEXT_COMMAND_VALUE         32768
#define _APS_NEXT_CONTROL_VALUE         201
#define _APS_NEXT_SYMED_VALUE           106
#endif
#endif
```

isapi_dll\resource.h

```
//{{NO_DEPENDENCIES}}
// Microsoft Developer Studio generated include file.
// Used by tpcc.rc
//
#define IDD_DIALOG1                     101

// Next default values for new objects
//
#ifdef APSTUDIO_INVOKED
#ifndef APSTUDIO_READONLY_SYMBOLS
#define _APS_NEXT_RESOURCE_VALUE        102
#define _APS_NEXT_COMMAND_VALUE         40001
#define _APS_NEXT_CONTROL_VALUE         1000
#define _APS_NEXT_SYMED_VALUE           101
#endif
#endif
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

Appendix B: Database Design

The TPC-C database was created with the following Transact-SQL scripts:

backup.sql

```
--  File:     BACKUP.SQL
--            Microsoft TPC-C Benchmark Kit Ver. 4.22
--            Copyright Microsoft, 2001
--  Purpose:  Creates backup of tpcc database


declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:", convert(varchar(30),@startdate,9)

dump database tpcc to tpccback1, tpccback2, tpccback3, tpccback4 with init, stats =
1

select @enddate = getdate()
select "End date: ", convert(varchar(30),@enddate,9)
select "Elapsed time (in seconds): ", datediff(second, @startdate, @enddate)

go
```

backupdev.sql

```
--  File:     BACKUPDEVB.SQL
--            Microsoft TPC-C Benchmark Kit Ver. 4.22
--            Copyright Microsoft, 2001
--  Purpose:  Creates tpcc database Backup Devices


use master
go

--  create backup devices


exec sp_addumpdevice 'disk','tpccback1','W:\tpccback1.dmp'
go
exec sp_addumpdevice 'disk','tpccback2','X:\tpccback2.dmp'
go
exec sp_addumpdevice 'disk','tpccback3','Y:\tpccback3.dmp'
go
exec sp_addumpdevice 'disk','tpccback4','Z:\tpccback4.dmp'
go
```

config.sql

```
--  File:     CONFIG.SQL
--            Microsoft TPC-C Benchmark Kit Ver. 4.00
--            Copyright Microsoft, 1996
--  Purpose:  Collects SQL Server configuration parameters

print " "
select convert(char(30), getdate(),9)
print " "
go

sp_configure "show advanced",1
go
reconfigure with override
go

exec sp_configure "affinity mask",              15
exec sp_configure "cost threshold for parallelism",           5
exec sp_configure "index create memory",        704
exec sp_configure "lightweight pooling",        1
exec sp_configure "awe enabled",                1
exec sp_configure "locks",                      0
exec sp_configure "max degree of parallelism",  1
exec sp_configure "max server memory",          2147483647
exec sp_configure "max worker threads",         400
exec sp_configure "min memory per query",       512
exec sp_configure "min server memory",          0
exec sp_configure "nested triggers",            1
exec sp_configure "network packet size",        2048
exec sp_configure "open objects",               0
exec sp_configure "priority boost",               1
exec sp_configure "recovery interval",          32767
exec sp_configure "set working set size",       0
exec sp_configure "user connections",           0

go

reconfigure with override
go
sp_configure
go
```

createdb.sql

```
--  File:     CREATEDB.SQL
--            Microsoft TPC-C Benchmark Kit Ver. 4.22
--            Copyright Microsoft, 2001
--  Purpose:  Creates tpcc database and backup files for 8800 warehouses


use master
go
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
--        Create temporary table for timing

if exists ( select name from sysobjects where name = 'tpcc_timer' )
          drop table tpcc_timer
go

create table tpcc_timer
(
          start_date                                        char(30),
          end_date                                  char(30)
)

insert    into tpcc_timer values (0,0)
go

--        Store starting time

update    tpcc_timer
set       start_date          = (select convert(char(30), getdate(),9))
go

--  create main database files

CREATE DATABASE tpcc
ON PRIMARY
(         NAME                = MSSQL_tpcc_root,
          FILENAME  = "C:\MSSQL_tpcc_root.mdf",
          SIZE                = 8MB,
          FILEGROWTH          =0),

FILEGROUP MSSQL_cs_fg
(         NAME                = MSSQL_cs1,
          FILENAME  = "F:",
          SIZE                = 78000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_cs2,
          FILENAME  = "G:",
          SIZE                = 78000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_cs3,
          FILENAME  = "H:",
          SIZE                = 78000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_cs4,
          FILENAME  = "I:",
          SIZE                = 78000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_cs5,
          FILENAME  = "J:",
          SIZE                = 78000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_cs6,
          FILENAME  = "K:",
          SIZE                = 78000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_cs7,
          FILENAME  = "L:",
          SIZE                = 78000MB,
          FILEGROWTH          = 0),

FILEGROUP MSSQL_misc_fg
(         NAME                = MSSQL_misc1,
          FILENAME  = "M:",
          SIZE                = 39000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_misc2,
          FILENAME  = "N:",
          SIZE                = 39000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_misc3,
          FILENAME  = "O:",
          SIZE                = 39000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_misc4,
          FILENAME  = "P:",
          SIZE                = 39000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_misc5,
          FILENAME  = "Q:",
          SIZE                = 39000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_misc6,
          FILENAME  = "R:",
          SIZE                = 39000MB,
          FILEGROWTH          = 0),
(         NAME                = MSSQL_misc7,
          FILENAME  = "S:",
          SIZE                = 39000MB,
          FILEGROWTH          = 0)
LOG ON
(         NAME                =MSSQL_tpcc_log,
          FILENAME  ="E:",
          SIZE                =368000MB,
          FILEGROWTH          =0)


-- Store ending time
update    tpcc_timer
set       end_date  = (select convert(char(30), getdate(),9))
go

select "Elapsed time (in seconds): ", datediff(second,(select start_date from
tpcc_timer),(select end_date from tpcc_timer))

--        remove temporary table

if exists ( select name from sysobjects where name = 'tpcc_timer' )
          drop table tpcc_timer
go
```

dbopt1.sql

```
------------------------------------------------------------------
--                                                              --
--  File:   DBOPT1.SQL                                          --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62             --
--          Copyright Microsoft, 2005                           --
--                                                              --
--          Sets database options for load                      --
--                                                              --
------------------------------------------------------------------
USE master
GO
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
ALTER DATABASE tpcc SET RECOVERY BULK_LOGGED
GO

EXEC sp_dboption tpcc,'trunc. log on chkpt.',TRUE
GO

ALTER DATABASE tpcc SET TORN_PAGE_DETECTION OFF
GO

ALTER DATABASE tpcc SET PAGE_VERIFY NONE
GO

USE tpcc
GO

CHECKPOINT
GO
```

dbopt2.sql

```
-----------------------------------------------------------------
--                                                             --
--  File:   DBOPT2.SQL                                         --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62            --
--          Copyright Microsoft, 2005                          --
--                                                             --
--          Sets database options after load                   --
--                                                             --
-----------------------------------------------------------------
ALTER DATABASE tpcc SET RECOVERY FULL
GO

USE tpcc
GO

CHECKPOINT
GO

sp_configure 'allow updates',1
GO

RECONFIGURE WITH OVERRIDE
GO

DECLARE   @msg                varchar(50)

-------------------------------------------------
--        OPTIONS FOR SQL SERVER 2000          --
-- Set option values for user-defined indexes --
-------------------------------------------------

SET     @msg    = ' '
PRINT   @msg
SET     @msg    = 'Setting SQL Server indexoptions'
PRINT   @msg
SET     @msg    = ' '
PRINT   @msg

EXEC sp_indexoption 'customer',     'DisAllowPageLocks',    TRUE
EXEC sp_indexoption 'district',           'DisAllowPageLocks',      TRUE
EXEC sp_indexoption 'warehouse',    'DisAllowPageLocks',    TRUE
EXEC sp_indexoption 'stock',        'DisAllowPageLocks',    TRUE
EXEC sp_indexoption 'order_line',   'DisAllowRowLocks',     TRUE
EXEC sp_indexoption 'orders',       'DisAllowRowLocks',     TRUE
EXEC sp_indexoption 'new_order',    'DisAllowRowLocks',     TRUE
EXEC sp_indexoption 'item',         'DisAllowRowLocks',     TRUE
EXEC sp_indexoption 'item',         'DisAllowPageLocks',    FALSE
GO

Print ' '
Print '******************'
Print 'Pre-specified Locking Hierarchy:'
Print '     Lockflag = 0 ==> No pre-specified hierarchy'
Print '   Lockflag = 1 ==> Lock at Page-level then Table-level'
Print '   Lockflag = 2 ==> Lock at Row-level then Table-level'
Print '   Lockflag = 3 ==> Lock at Table-level'
Print ' '

SELECT  name,
        lockflags
FROM    sysindexes
WHERE   object_id('warehouse')  = id OR
        object_id('district')   = id OR
        object_id('customer')   = id OR
        object_id('stock')      = id OR
        object_id('orders')     = id OR
        object_id('order_line') = id OR
        object_id('history')    = id OR
        object_id('new_order')  = id OR
        object_id('item')       = id
ORDER   BY lockflags asc
GO

sp_configure 'allow updates',0
GO

RECONFIGURE WITH OVERRIDE
GO

EXEC sp_dboption tpcc,        'auto update statistics',     FALSE
EXEC sp_dboption tpcc,        'auto create statistics',     FALSE
GO

DECLARE @db_id  int,
        @tbl_id int

SET     @db_id  = DB_ID('tpcc')
SET     @tbl_id = OBJECT_ID('tpcc..warehouse')
DBCC PINTABLE (@db_id, @tbl_id)

SET     @tbl_id = OBJECT_ID('tpcc..district')
DBCC PINTABLE (@db_id, @tbl_id)

SET     @tbl_id = OBJECT_ID('tpcc..new_order')
DBCC PINTABLE (@db_id, @tbl_id)

SET     @tbl_id = OBJECT_ID('tpcc..item')
DBCC PINTABLE (@db_id, @tbl_id)
GO
```

delivery.sql

```
-----------------------------------------------------------------
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
--                                                                      --
--  File:   DELIVERY.SQL                                                --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                     --
--          Copyright Microsoft, 2005                                   --
--                                                                      --
--          Creates delivery stored procedure                           --
--                                                                      --
--          Interface Level:    4.20.000                                --
--                                                                      --
------------------------------------------------------------------------
SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_delivery' )
    DROP PROCEDURE tpcc_delivery
GO

CREATE PROC tpcc_delivery
                @w_id           int,

                @o_carrier_id   smallint

AS
DECLARE @d_id       tinyint,
        @o_id       int,
        @c_id       int,
        @total      money,
        @oid1       int,
        @oid2       int,
        @oid3       int,
        @oid4       int,
        @oid5       int,
        @oid6       int,
        @oid7       int,
        @oid8       int,
        @oid9       int,
        @oid10      int

SELECT  @d_id   = 0

BEGIN TRANSACTION d
    WHILE (@d_id < 10)
    BEGIN
        SELECT  @d_id   = @d_id + 1,
                @total  = 0,
                @o_id   = 0

        SELECT  TOP 1
                @o_id   = no_o_id
        FROM    new_order WITH  (serializable updlock)
        WHERE   no_w_id = @w_id AND
                no_d_id = @d_id
        ORDER   BY no_o_id ASC

        IF (@@rowcount <> 0)
        BEGIN
            --  claim the order for this district

            DELETE  new_order
            WHERE   no_w_id = @w_id AND
                    no_d_id = @d_id AND
                    no_o_id = @o_id

            --  set carrier_id on this order (and get customer id)
            UPDATE  orders
            SET     o_carrier_id    = @o_carrier_id,
                    @c_id           = o_c_id
            WHERE   o_w_id          = @w_id AND
                    o_d_id          = @d_id AND
                    o_id            = @o_id

            --  set date in all lineitems for this order (and sum amounts)
            UPDATE  order_line
            SET     ol_delivery_d   = GETDATE(),
                    @total          = @total + ol_amount
            WHERE   ol_w_id         = @w_id AND
                    ol_d_id         = @d_id AND
                    ol_o_id         = @o_id

            --  accummulate lineitem amounts for this order into customer
            UPDATE  customer
            SET     c_balance       = c_balance + @total,
                    c_delivery_cnt  = c_delivery_cnt + 1
            WHERE   c_w_id          = @w_id AND
                    c_d_id          = @d_id AND
                    c_id            = @c_id
        END

    SELECT  @oid1   = CASE @d_id WHEN   1   THEN @o_id ELSE @oid1   END,
            @oid2   = CASE @d_id WHEN   2   THEN @o_id ELSE @oid2   END,
            @oid3   = CASE @d_id WHEN   3   THEN @o_id ELSE @oid3   END,
            @oid4   = CASE @d_id WHEN   4   THEN @o_id ELSE @oid4   END,
            @oid5   = CASE @d_id WHEN   5   THEN @o_id ELSE @oid5   END,
            @oid6   = CASE @d_id WHEN   6   THEN @o_id ELSE @oid6   END,
            @oid7   = CASE @d_id WHEN   7   THEN @o_id ELSE @oid7   END,
            @oid8   = CASE @d_id WHEN   8   THEN @o_id ELSE @oid8   END,
            @oid9   = CASE @d_id WHEN   9   THEN @o_id ELSE @oid9   END,
            @oid10  = CASE @d_id WHEN  10   THEN @o_id ELSE @oid10  END
    END

COMMIT TRANSACTION d

-- return delivery data to client

SELECT  @oid1,
        @oid2,
        @oid3,
        @oid4,
        @oid5,
        @oid6,
        @oid7,
        @oid8,
        @oid9,
        @oid10
GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

getargs.c

```
//        File:               GETARGS.C
//                                  Microsoft TPC-C Kit Ver. 4.51
//                                  Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2003
//        Purpose:  Source file for command line processing


// Includes
#include "tpcc.h"

//===================================================================
//
// Function name: GetArgsLoader
//
//===================================================================

void GetArgsLoader(int argc, char **argv, TPCCLDR_ARGS *pargs)
{
    int             i;
    char  *ptr;

#ifdef DEBUG
    printf("[%ld]DBG: Entering GetArgsLoader()\n", (int) GetCurrentThreadId());
#endif

    /* init args struct with some useful values */
    pargs->server                       =  SERVER;
    pargs->user                         =  USER;
    pargs->password                     =  PASSWORD;
    pargs->database                     =  DATABASE;
    pargs->batch                        =  BATCH;
    pargs->num_warehouses               =  UNDEF;
          pargs->tables_all                       =  TRUE;
          pargs->table_item                       =  FALSE;
          pargs->table_warehouse                  =  FALSE;
          pargs->table_customer                   =  FALSE;
          pargs->table_orders                     =  FALSE;
          pargs->loader_res_file                  =  LOADER_RES_FILE;
          pargs->log_path                                 =  LOADER_LOG_PATH;
          pargs->pack_size                        =  DEFLDPACKSIZE;
          pargs->starting_warehouse     =  DEF_STARTING_WAREHOUSE;
          pargs->build_index                      =  BUILD_INDEX;
          pargs->index_order                      =  INDEX_ORDER;
          pargs->index_script_path      =  INDEX_SCRIPT_PATH;
          pargs->scale_down                       =  SCALE_DOWN;

    /* check for zero command line args */
    if ( argc == 1 )
                    GetArgsLoaderUsage();

    for (i = 1; i < argc; ++i)
    {
                    if (argv[i][0] != '-' && argv[i][0] != '/')
                    {
                    printf("\nUnrecognized command");
                    GetArgsLoaderUsage();
                    exit(1);
                    }

                    ptr = argv[i];
                    switch (ptr[1])
                    {
                    case '?':     /* Fall throught */
                                  GetArgsLoaderUsage();
                                  break;

                    case 'D':
                                  pargs->database = ptr+2;
                                  break;

                    case 'P':
                                  pargs->password = ptr+2;
                                  break;

                    case 'S':
                                  pargs->server = ptr+2;
                                  break;

                    case 'U':
                                  pargs->user = ptr+2;
                                  break;

                    case 'b':
                                  pargs->batch = atol(ptr+2);
                                  break;

                    case 'W':
                                  pargs->num_warehouses = atol(ptr+2);
                                  break;

                    case 's':
                                  pargs->starting_warehouse = atol(ptr+2);
                                  break;

                    case 't':
                                  {
                                            pargs->tables_all = FALSE;
                                            if (strcmp(ptr+2,"item") == 0)
                                                      pargs->table_item =
TRUE;
                                            else if (strcmp(ptr+2,"warehouse")
== 0)
                                                      pargs->table_warehouse =
TRUE;
                                            else if (strcmp(ptr+2,"customer")
== 0)
                                                      pargs->table_customer =
TRUE;
                                            else if (strcmp(ptr+2,"orders") ==
0)
                                                      pargs->table_orders =
TRUE;
                                            else
                                            {
                                            printf("\nUnrecognized command");
                                            GetArgsLoaderUsage();
                                            exit(1);
                                            }

                                            break;
                                  }
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        case 'f':
                                pargs->loader_res_file = ptr+2;
                                break;

                        case 'L':
                                pargs->log_path = ptr+2;
                                break;

                        case 'p':
                                pargs->pack_size = atol(ptr+2);
                                break;

                        case 'i':
                                pargs->build_index = atol(ptr+2);
                                break;

                        case 'o':
                                pargs->index_order = atol(ptr+2);
                                break;

                        case 'c':
                                pargs->scale_down = atol(ptr+2);
                                break;

                case 'd':
                                pargs->index_script_path = ptr+2;
                                break;

                        default:
                        GetArgsLoaderUsage();
                        exit(-1);
                        break;
                }
    }

    /* check for required args */
    if (pargs->num_warehouses == UNDEF )
    {
                printf("Number of Warehouses is required\n");
                exit(-2);
    }

    return;
}


//==================================================================
//
// Function name: GetArgsLoaderUsage
//
//==================================================================

void GetArgsLoaderUsage()
{

#ifdef DEBUG
    printf("[%ld]DBG: Entering GetArgsLoaderUsage()\n", (int) GetCurrentThreadId());
#endif


    printf("TPCCLDR:\n\n");
          printf("Parameter                                                Default\n");
          printf("-------------------------------------------------------------
\n");
    printf("-W Number of Warehouses to Load                       Required \n");
    printf("-S Server                                             %s\n", SERVER);
    printf("-U Username                                           %s\n", USER);
    printf("-P Password                                           %s\n", PASSWORD);
    printf("-D Database                                           %s\n", DATABASE);
          printf("-b Batch Size                                         %ld\n",
(long) BATCH);
          printf("-p TDS packet size                                    %ld\n",
(long) DEFLDPACKSIZE);
          printf("-L Loader BCP Log Path                                %s\n",
LOADER_LOG_PATH);
          printf("-f Loader Results Output Filename                     %s\n",
LOADER_RES_FILE);
          printf("-s Starting Warehouse                                 %ld\n",
(long) DEF_STARTING_WAREHOUSE);
          printf("-i Build Option (data = 0, data and index = 1)        %ld\n",
(long) BUILD_INDEX);
          printf("-o Cluster Index Build Order (before = 1, after = 0)  %ld\n",
(long) INDEX_ORDER);
          printf("-c Build Scaled Database (normal = 0, tiny = 1)       %ld\n",
(long) SCALE_DOWN);
          printf("-d Index Script Path                                  %s\n",
INDEX_SCRIPT_PATH);
          printf("-t Table to Load                                      all tables
\n");
    printf("   [item|warehouse|customer|orders]\n");
    printf("   Notes: \n");
    printf("     - the '-t' parameter may be included multiple times to \n");
    printf("       specify multiple tables to be loaded \n");
    printf("     - 'item' loads ITEM table \n");
    printf("     - 'warehouse' loads WAREHOUSE, DISTRICT, and STOCK tables \n");
    printf("     - 'customer' loads CUSTOMER and HISTORY tables \n");
    printf("     - 'orders' load NEW-ORDER, ORDERS, ORDER-LINE tables \n");

          printf("\nNote:  Command line switches are case sensitive.\n");

    exit(0);
}
```

idxcuscl.sql

```
----------------------------------------------------------------
--                                                            --
--  File:   IDXCUSCL.SQL                                      --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62           --
--          Copyright Microsoft, 2005                         --
--                                                            --
--          Creates clustered index on customer table         --
----------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'customer_c1' )
    DROP INDEX customer.customer_c1

CREATE UNIQUE CLUSTERED INDEX customer_c1 ON customer(c_w_id, c_d_id, c_id)
    ON MSSQL_cs_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

idxcusnc.sql

```
-----------------------------------------------------------------------
--                                                                   --
--  File:   IDXCUSNC.SQL                                             --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                  --
--          Copyright Microsoft, 2005                                --
--                                                                   --
--          Creates non-clustered index on customer table            --
-----------------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'customer_nc1' )
    DROP INDEX customer.customer_nc1

CREATE UNIQUE NONCLUSTERED INDEX customer_nc1 ON customer(c_w_id, c_d_id, c_last,
c_first, c_id)
    ON MSSQL_cs_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

idxdiscl.sql

```
-----------------------------------------------------------------------
--                                                                   --
--  File:   IDXDISCL.SQL                                             --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                  --
--          Copyright Microsoft, 2005                                --
--                                                                   --
--          Creates clustered index on district table                --
-----------------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'district_c1' )
    DROP INDEX district.district_c1

CREATE UNIQUE CLUSTERED INDEX district_c1 ON district(d_w_id, d_id)
    WITH FILLFACTOR=100 ON MSSQL_misc_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

idxitmcl.sql

```
-----------------------------------------------------------------------
--                                                                   --
--  File:   IDXITMCL.SQL                                             --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                  --
--          Copyright Microsoft, 2005                                --
--                                                                   --
--          Creates clustered index on item table                    --
--                                                                   --
-----------------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'item_c1' )
    DROP INDEX item.item_c1

CREATE UNIQUE CLUSTERED INDEX item_c1 ON item(i_id)
    ON MSSQL_misc_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

idxnodcl.sql

```
-----------------------------------------------------------------------
--                                                                   --
--  File:   IDXNODCL.SQL                                             --
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
--          Microsoft TPC-C Benchmark Kit Ver. 4.62             --
--          Copyright Microsoft, 2005                           --
--                                                              --
--          Creates clustered index on new-order table          --
--                                                              --
------------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'new_order_c1' )
    DROP INDEX new_order.new_order_c1

CREATE UNIQUE CLUSTERED INDEX new_order_c1 ON new_order(no_w_id, no_d_id, no_o_id)

    ON MSSQL_misc_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

idxodlcl.sql

```
------------------------------------------------------------------
--                                                              --
--  File:   IDXODLCL.SQL                                        --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62             --
--          Copyright Microsoft, 2005                           --
--                                                              --
--          Creates clustered index on order-line table         --
--                                                              --
------------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'order_line_c1' )
    DROP INDEX order_line.order_line_c1

CREATE UNIQUE CLUSTERED INDEX order_line_c1 ON order_line(ol_w_id, ol_d_id, ol_o_id,
ol_number)
    ON MSSQL_misc_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

idxordcl.sql

```
------------------------------------------------------------------
--                                                              --
--  File:   IDXORDCL.SQL                                        --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62             --
--          Copyright Microsoft, 2005                           --
--                                                              --
--          Creates clustered index on orders table             --
--                                                              --
------------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'orders_c1' )
    DROP INDEX orders.orders_c1

CREATE UNIQUE CLUSTERED INDEX orders_c1 ON orders(o_w_id, o_d_id, o_id)
    ON MSSQL_misc_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

idxhiscl.sql

```
------------------------------------------------------------------
--                                                              --
--  File:   IDXHISCL.SQL                                        --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62             --
--          Copyright Microsoft, 2005                           --
--                                                              --
--          Creates clustered index on history table            --
--                                                              --
--          CAUTION: This index is only beneficial for systems  --
--          CAUTION: with 8 or more processors.                 --
--          CAUTION: It may negatively impact performance on    --
--          CAUTION: systems with less than 8 processors.       --
--                                                              --
------------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'history_c1' )
    DROP INDEX history.history_c1

CREATE UNIQUE CLUSTERED INDEX history_c1 ON history(h_c_w_id, h_date, h_c_d_id,
h_c_id, h_amount)
    ON MSSQL_misc_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

idxstkcl.sql

```
-----------------------------------------------------------------------
--                                                                   --
--  File:   IDXSTKCL.SQL                                             --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                  --
--          Copyright Microsoft, 2005                                --
--                                                                   --
--          Creates clustered index on stock table                   --
--                                                                   --
-----------------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'stock_c1' )
    DROP INDEX stock.stock_c1

CREATE UNIQUE CLUSTERED INDEX stock_c1 ON stock(s_i_id, s_w_id)
    ON MSSQL_cs_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

idxwarcl.sql

```
-----------------------------------------------------------------------
--                                                                   --
--  File:   IDXWARCL.SQL                                             --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                  --
--          Copyright Microsoft, 2005                                --
--                                                                   --
--          Creates clustered index on warehouse table               --
--                                                                   --
-----------------------------------------------------------------------
USE tpcc
GO

DECLARE @startdate  DATETIME,
        @enddate    DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'warehouse_c1' )
    DROP INDEX warehouse.warehouse_c1

CREATE UNIQUE CLUSTERED INDEX warehouse_c1 ON warehouse(w_id)
    WITH FILLFACTOR=100 ON MSSQL_misc_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO
```

neword.sql

```
-----------------------------------------------------------------------
--                                                                   --
--  File:   NEWORD.SQL                                               --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                  --
--          Copyright Microsoft, 2005                                --
--                                                                   --
--          Creates neworder stored procedure                        --
--                                                                   --
--          Interface Level:    4.20.000                             --
--                                                                   --
-----------------------------------------------------------------------
SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_neworder' )
    DROP PROCEDURE tpcc_neworder
GO

CREATE PROCEDURE    tpcc_neworder
                        @w_id           int,
                        @d_id           tinyint,
                        @c_id           int,
                        @o_ol_cnt       tinyint,
                        @o_all_local    tinyint,
                        @i_id1  int = 0, @s_w_id1  int = 0, @ol_qty1  smallint = 0,
                        @i_id2  int = 0, @s_w_id2  int = 0, @ol_qty2  smallint = 0,
                        @i_id3  int = 0, @s_w_id3  int = 0, @ol_qty3  smallint = 0,
                        @i_id4  int = 0, @s_w_id4  int = 0, @ol_qty4  smallint = 0,
                        @i_id5  int = 0, @s_w_id5  int = 0, @ol_qty5  smallint = 0,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        @i_id6  int = 0, @s_w_id6  int = 0, @ol_qty6  smallint = 0,
                        @i_id7  int = 0, @s_w_id7  int = 0, @ol_qty7  smallint = 0,
                        @i_id8  int = 0, @s_w_id8  int = 0, @ol_qty8  smallint = 0,
                        @i_id9  int = 0, @s_w_id9  int = 0, @ol_qty9  smallint = 0,
                        @i_id10 int = 0, @s_w_id10 int = 0, @ol_qty10 smallint = 0,
                        @i_id11 int = 0, @s_w_id11 int = 0, @ol_qty11 smallint = 0,
                        @i_id12 int = 0, @s_w_id12 int = 0, @ol_qty12 smallint = 0,
                        @i_id13 int = 0, @s_w_id13 int = 0, @ol_qty13 smallint = 0,
                        @i_id14 int = 0, @s_w_id14 int = 0, @ol_qty14 smallint = 0,
                        @i_id15 int = 0, @s_w_id15 int = 0, @ol_qty15 smallint = 0


AS
DECLARE @w_tax          smallmoney,
        @d_tax          smallmoney,
        @c_last         char(16),
        @c_credit       char(2),
        @c_discount     smallmoney,
        @i_price        smallmoney,
        @i_name         char(24),
        @i_data         char(50),
        @o_entry_d      datetime,
        @remote_flag    int,
        @s_quantity     smallint,
        @s_data         char(50),
        @s_dist         char(24),
        @li_no          int,
        @o_id           int,
        @commit_flag    tinyint,
        @li_id          int,
        @li_s_w_id      int,
        @li_qty         smallint,
        @ol_number      int,
        @c_id_local     int

BEGIN

BEGIN TRANSACTION n

------------------------------------------------------------
--  get district tax and next availible order id and update
--  plus initialize local variables
------------------------------------------------------------
    UPDATE  district
    SET     @d_tax          = d_tax,
            @o_id           = d_next_o_id,
            d_next_o_id     = d_next_o_id + 1,
            @o_entry_d      = GETDATE(),
            @li_no          = 0,
            @commit_flag    = 1
    WHERE   d_w_id          = @w_id AND
            d_id            = @d_id

----------------------
--  process orderlines
----------------------
    WHILE (@li_no < @o_ol_cnt)
    BEGIN
        SELECT  @li_no  = @li_no + 1

-----------------------------------------------
--  set i_id, s_w_id, and qty for this lineitem
-----------------------------------------------
        SELECT  @li_id = CASE @li_no
                            WHEN 1 THEN @i_id1
                            WHEN 2 THEN @i_id2
                            WHEN 3 THEN @i_id3
                            WHEN 4 THEN @i_id4
                            WHEN 5 THEN @i_id5
                            WHEN 6 THEN @i_id6
                            WHEN 7 THEN @i_id7
                            WHEN 8 THEN @i_id8
                            WHEN 9 THEN @i_id9
                            WHEN 10 THEN @i_id10
                            WHEN 11 THEN @i_id11
                            WHEN 12 THEN @i_id12
                            WHEN 13 THEN @i_id13
                            WHEN 14 THEN @i_id14
                            WHEN 15 THEN @i_id15
                        END,

                @li_s_w_id = CASE @li_no
                            WHEN 1 THEN @s_w_id1
                            WHEN 2 THEN @s_w_id2
                            WHEN 3 THEN @s_w_id3
                            WHEN 4 THEN @s_w_id4
                            WHEN 5 THEN @s_w_id5
                            WHEN 6 THEN @s_w_id6
                            WHEN 7 THEN @s_w_id7
                            WHEN 8 THEN @s_w_id8
                            WHEN 9 THEN @s_w_id9
                            WHEN 10 THEN @s_w_id10
                            WHEN 11 THEN @s_w_id11
                            WHEN 12 THEN @s_w_id12
                            WHEN 13 THEN @s_w_id13
                            WHEN 14 THEN @s_w_id14
                            WHEN 15 THEN @s_w_id15
                        END,

                @li_qty = CASE  @li_no
                            WHEN 1 THEN @ol_qty1
                            WHEN 2 THEN @ol_qty2
                            WHEN 3 THEN @ol_qty3
                            WHEN 4 THEN @ol_qty4
                            WHEN 5 THEN @ol_qty5
                            WHEN 6 THEN @ol_qty6
                            WHEN 7 THEN @ol_qty7
                            WHEN 8 THEN @ol_qty8
                            WHEN 9 THEN @ol_qty9
                            WHEN 10 THEN @ol_qty10
                            WHEN 11 THEN @ol_qty11
                            WHEN 12 THEN @ol_qty12
                            WHEN 13 THEN @ol_qty13
                            WHEN 14 THEN @ol_qty14
                            WHEN 15 THEN @ol_qty15
                        END

----------------------------------------
--  get item data (no one updates item)
----------------------------------------
        SELECT  @i_price    = i_price,
                @i_name     = i_name,
                @i_data     = i_data
        FROM    item WITH (repeatableread)
        WHERE   i_id        = @li_id
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
-----------------------
--  update stock values
-----------------------
        UPDATE  stock
        SET     s_ytd           = s_ytd + @li_qty,
                @s_quantity     = s_quantity   = s_quantity - @li_qty +
                                    CASE WHEN (s_quantity - @li_qty < 10) THEN 91
ELSE 0 END,
                s_order_cnt     = s_order_cnt + 1,
                s_remote_cnt    = s_remote_cnt +
                                    CASE WHEN (@li_s_w_id = @w_id) THEN 0 ELSE 1
END,
                @s_data         = s_data,
                @s_dist         = CASE @d_id
                                    WHEN 1  THEN s_dist_01
                                    WHEN 2  THEN s_dist_02
                                    WHEN 3  THEN s_dist_03
                                    WHEN 4  THEN s_dist_04
                                    WHEN 5  THEN s_dist_05
                                    WHEN 6  THEN s_dist_06
                                    WHEN 7  THEN s_dist_07
                                    WHEN 8  THEN s_dist_08
                                    WHEN 9  THEN s_dist_09
                                    WHEN 10 THEN s_dist_10
                                  END
        WHERE   s_i_id          = @li_id AND
                s_w_id          = @li_s_w_id

-------------------------------------------------------------------
--  if there actually is a stock (and item) with these ids, go to work
-------------------------------------------------------------------
        IF (@@rowcount > 0)
        BEGIN
-------------------------------------------------------
--  insert order_line data (using data from item and stock)
-------------------------------------------------------
            INSERT INTO order_line VALUES(  @o_id,
                                            @d_id,
                                            @w_id,
                                            @li_no,
                                            @li_id,
                                            'dec 31, 1899',
                                            @i_price * @li_qty,
                                            @li_s_w_id,
                                            @li_qty,
                                            @s_dist)

--------------------------------
--  send line-item data to client
--------------------------------
            SELECT  @i_name,
                    @s_quantity,
                    b_g = CASE  WHEN (   (patindex('%ORIGINAL%',@i_data) > 0) AND

(patindex('%ORIGINAL%',@s_data) > 0) )
                                                                THEN 'B' ELSE 'G' END,
                    @i_price,
                    @i_price * @li_qty
                    END
                    ELSE
                    BEGIN
-------------------------------------------------------
--  no item (or stock) found - triggers rollback condition
-------------------------------------------------------
            SELECT  '',0,'',0,0
            SELECT  @commit_flag    = 0
                    END
          END
-------------------------------------------------------
--  get customer last name, discount, and credit rating
-------------------------------------------------------
    SELECT  @c_last     = c_last,
            @c_discount = c_discount,
            @c_credit   = c_credit,
            @c_id_local = c_id
    FROM    customer WITH (repeatableread)
    WHERE   c_id        = @c_id AND
            c_w_id      = @w_id AND
            c_d_id      = @d_id

--------------------------------------
--  insert fresh row into orders table
--------------------------------------
    INSERT INTO orders VALUES ( @o_id,
                                @d_id,
                                @w_id,
                                @c_id_local,
                                0,
                                @o_ol_cnt,
                                @o_all_local,
                                @o_entry_d)

-----------------------------------------------
--  insert corresponding row into new-order table
-----------------------------------------------
    INSERT INTO new_order VALUES (  @o_id,
                                    @d_id,
                                    @w_id)

------------------------
--  select warehouse tax
------------------------
    SELECT  @w_tax  = w_tax
    FROM    warehouse WITH (repeatableread)
    WHERE   w_id    = @w_id

    IF (@commit_flag = 1)
                    COMMIT TRANSACTION n
    ELSE
-------------------------------
--  all that work for nuthin!!!
-------------------------------
        ROLLBACK TRANSACTION n

-------------------------------
--  return order data to client
-------------------------------
    SELECT  @w_tax,
            @d_tax,
            @o_id,
            @c_last,
            @c_discount,
            @c_credit,
            @o_entry_d,
            @commit_flag
END
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO
```

null-txns.sql

```
------------------------------------------------------------------------
--                                                                    --
--  File:   NULL-TXNS.SQL                                             --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                   --
--          Copyright Microsoft, 2005                                 --
--                                                                    --
--          This script will create stored procs which                --
--          accept the same parameters and return correctly           --
--          formed results sets to match the standard TPC-C           --
--          stored procs.  Of course, the advantage is that           --
--          these stored procs place almost no load on                --
--          SQL Server and do not require a database.                 --
--                                                                    --
--          Interface Level:    4.10.000                              --
--                                                                    --
------------------------------------------------------------------------
USE tpce
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_delivery' )
    DROP PROCEDURE tpcc_neworder
GO
IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_neworder' )
    DROP PROCEDURE tpcc_neworder
GO
IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_orderstatus' )
    DROP PROCEDURE tpcc_neworder
GO
IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_payment' )
    DROP PROCEDURE tpcc_neworder
GO
IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_stocklevel' )
    DROP PROCEDURE tpcc_neworder
GO
IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_version' )
    DROP PROCEDURE tpcc_neworder
GO
IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'order_line_null' )
    DROP PROCEDURE order_line_null
GO

CREATE PROCEDURE    tpcc_delivery
                        @w_id           int,

                        @o_carrier_id   smallint

AS
DECLARE @d_id       tinyint,
        @o_id       int,
        @c_id       int,
        @total      numeric(12,2),
        @oid1       int,
        @oid2       int,
        @oid3       int,
        @oid4       int,
        @oid5       int,
        @oid6       int,
        @oid7       int,
        @oid8       int,
        @oid9       int,
        @oid10      int,
        @delaytime  varchar(30)

    -------------------------------------------------
    -- uniform random delay of 0 - 1 second; avg = 0.50
    -------------------------------------------------
    SELECT  @delaytime = '00:00:0' + CAST(CAST((RAND()*1.00) AS decimal(4,3)) AS
    char(5))

    WAITFOR delay @delaytime

    SELECT  3001, 3001, 3001, 3001, 3001, 3001, 3001, 3001, 3001, 3001
    GO

    CREATE PROCEDURE    tpcc_neworder
                            @w_id           int,
                            @d_id           tinyint,
                            @c_id           int,
                            @o_ol_cnt       tinyint,
                            @o_all_local    tinyint,
                            @i_id1  int = 0, @s_w_id1 int = 0, @ol_qty1 smallint = 0,
                            @i_id2  int = 0, @s_w_id2 int = 0, @ol_qty2 smallint = 0,
                            @i_id3  int = 0, @s_w_id3 int = 0, @ol_qty3 smallint = 0,
                            @i_id4  int = 0, @s_w_id4 int = 0, @ol_qty4 smallint = 0,
                            @i_id5  int = 0, @s_w_id5 int = 0, @ol_qty5 smallint = 0,
                            @i_id6  int = 0, @s_w_id6 int = 0, @ol_qty6 smallint = 0,
                            @i_id7  int = 0, @s_w_id7 int = 0, @ol_qty7 smallint = 0,
                            @i_id8  int = 0, @s_w_id8 int = 0, @ol_qty8 smallint = 0,
                            @i_id9  int = 0, @s_w_id9 int = 0, @ol_qty9 smallint = 0,
                            @i_id10 int = 0, @s_w_id10 int = 0, @ol_qty10 smallint = 0,
                            @i_id11 int = 0, @s_w_id11 int = 0, @ol_qty11 smallint = 0,
                            @i_id12 int = 0, @s_w_id12 int = 0, @ol_qty12 smallint = 0,
                            @i_id13 int = 0, @s_w_id13 int = 0, @ol_qty13 smallint = 0,
                            @i_id14 int = 0, @s_w_id14 int = 0, @ol_qty14 smallint = 0,
                            @i_id15 int = 0, @s_w_id15 int = 0, @ol_qty15 smallint = 0


    AS
    DECLARE @w_tax          numeric(4,4),
            @d_tax          numeric(4,4),
            @c_last         char(16),
            @c_credit       char(2),
            @c_discount     numeric(4,4),
            @i_price        numeric(5,2),
            @i_name         char(24),
            @o_entry_d      datetime,
            @li_no          int,
            @o_id           int,
            @commit_flag    tinyint,
            @li_id          int,
            @li_qty         smallint,
            @delaytime      varchar(30)

    BEGIN
        -------------------------------------------------
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    -- uniform random delay of 0 - 0.6 second; avg = 0.3
    -----------------------------------------------------
    SELECT  @delaytime  = '00:00:0' + CAST(CAST((RAND()*0.60) AS decimal(4,3)) AS
char(5))

    WAITFOR delay @delaytime

    ----------------------
    --  process orderlines
    ----------------------
    SELECT  @commit_flag    = 1,
            @li_no          = 0

    WHILE (@li_no < @o_ol_cnt)
    BEGIN
        SELECT  @li_id  = CASE @li_no
                              WHEN  1 THEN @i_id1
                              WHEN  2 THEN @i_id2
                              WHEN  3 THEN @i_id3
                              WHEN  4 THEN @i_id4
                              WHEN  5 THEN @i_id5
                              WHEN  6 THEN @i_id6
                              WHEN  7 THEN @i_id7
                              WHEN  8 THEN @i_id8
                              WHEN  9 THEN @i_id9
                              WHEN 10 THEN @i_id10
                              WHEN 11 THEN @i_id11
                              WHEN 12 THEN @i_id12
                              WHEN 13 THEN @i_id13
                              WHEN 14 THEN @i_id14
                              WHEN 15 THEN @i_id15
                          END

        SELECT  @li_no      = @li_no + 1

        SELECT  @i_price    = 23.45, @li_qty = @li_no

        IF (@li_id = 999999)
        BEGIN
            SELECT  '',0,'',0,0

            SELECT  @commit_flag = 0
        END
        ELSE
        BEGIN
            SELECT  'Item Name blah',
                    17,
                    'G',
                    @i_price,
                    @i_price * @li_qty
        END
    END

    ------------------------------
    --  return order data to client
    ------------------------------
    SELECT  @w_tax      = 0.1234,
            @d_tax      = 0.0987,
            @o_id       = 3001,
            @c_last     = 'BAROUGHTABLE',
            @c_discount = 0.2198,
            @c_credit   = 'GC',
            @o_entry_d  = GETDATE()

        SELECT  @w_tax,
                @d_tax,
                @o_id,
                @c_last,
                @c_discount,
                @c_credit,
                @o_entry_d,
                @commit_flag

END
GO

CREATE PROCEDURE    tpcc_orderstatus
                        @w_id       int,
                        @d_id       tinyint,

                        @c_id       int,
                        @c_last     char(16) = ''

AS
DECLARE @c_balance      numeric(12,2),
        @c_first        char(16),
        @c_middle       char(2),
        @o_id           int,
        @o_entry_d      datetime,
        @o_carrier_id   smallint,
        @ol_cnt         smallint,
        @delaytime      varchar(30)

-------------------------------------------------
-- uniform random delay of 0 - 0.2 second; avg = 0.1
-------------------------------------------------
SELECT  @delaytime  = '00:00:0' + CAST(CAST((RAND()*0.20) AS decimal(4,3)) AS
char(5))

WAITFOR delay @delaytime

SELECT  @c_id       = 113,
        @c_balance  = -10.00,
        @c_first    = '8YCodgytqCj8',
        @c_middle   = 'OE',
        @c_last     = 'OUGHTOUGHTABLE',
        @o_id       = 3456,
        @o_entry_d  = GETDATE(),
        @o_carrier_id   = 1

SELECT  @ol_cnt = (RAND() * 11) + 5

SET     ROWCOUNT @ol_cnt

SELECT  ol_supply_w_id,
        ol_i_id,
        ol_quantity,
        ol_amount,
        ol_delivery_d
FROM    order_line_null

SELECT  @c_id,
        @c_last,
        @c_first,
        @c_middle,
        @o_entry_d,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        @o_carrier_id,
        @c_balance,
        @o_id
GO

CREATE PROCEDURE    tpcc_payment
                        @w_id       int,
                        @c_w_id     int,
                        @h_amount   numeric(6,2),
                        @d_id       tinyint,
                        @c_d_id     tinyint,
                        @c_id       int,
                        @c_last     char(16) = ''

AS
DECLARE @w_street_1     char(20),
        @w_street_2     char(20),
        @w_city         char(20),
        @w_state        char(2),
        @w_zip          char(9),
        @w_name         char(10),
        @d_street_1     char(20),
        @d_street_2     char(20),
        @d_city         char(20),
        @d_state        char(2),
        @d_zip          char(9),
        @d_name         char(10),
        @c_first        char(16),
        @c_middle       char(2),
        @c_street_1     char(20),
        @c_street_2     char(20),
        @c_city         char(20),
        @c_state        char(2),
        @c_zip          char(9),
        @c_phone        char(16),
        @c_since        datetime,
        @c_credit       char(2),
        @c_credit_lim   numeric(12,2),
        @c_balance      numeric(12,2),
        @c_discount     numeric(4,4),
        @data           char(500),
        @c_data         char(500),
        @datetime       datetime,
        @w_ytd          numeric(12,2),
        @d_ytd          numeric(12,2),
        @cnt            smallint,
        @val            smallint,
        @screen_data          char(200),
        @d_id_local     tinyint,
        @w_id_local     int,
        @c_id_local     int,
        @delaytime      varchar(30)

-----------------------------------------------------
-- uniform random delay of 0 - 0.3 second; avg = 0.15
-----------------------------------------------------
SELECT  @delaytime  = '00:00:0' + CAST(CAST((RAND()*0.20) AS decimal(4,3)) AS
char(5))

WAITFOR delay @delaytime

SELECT  @screen_data    = ''

---------------------------------------
--  get customer info and update balances
---------------------------------------
SELECT  @d_street_1 = 'rqSHHakqyV',
        @d_street_2 = 'zZ98nW3BR2s',
        @d_city     = 'ArNr4GNFV9',
        @d_state    = 'aV',
        @d_zip      = '453511111'

-----------------------------------------------
--  get warehouse data and update year-to-date
-----------------------------------------------
SELECT  @w_street_1 = 'rqSHHakqyV',
        @w_street_2 = 'zZ98nW3BR2s',
        @w_city     = 'ArNr4GNFV9',
        @w_state    = 'aV',
        @w_zip      = '453511111'

SELECT  @c_id             = 123,
        @c_balance     = -10000.00,
        @c_first       = 'KmR03Xureb',
        @c_middle      = 'OE',
        @c_last        = 'BAROUGHTBAR',
        @c_street_1    = 'QpGdOHjv8mR9vNI8V',
        @c_street_2    = 'dzKoCObBqbC3yu',
        @c_city        = 'zAKZXdC037FQxq',
        @c_state       = 'QA',
        @c_zip         = '700311111',
        @c_phone       = '2967264064528555',
        @c_credit      = 'GC',
        @c_credit_lim  = 50000.00,
        @c_discount    = 0.3069,
        @c_since       = GETDATE(),
        @datetime      = GETDATE()

-------------------------
--  return data to client
-------------------------
SELECT  @c_id,
        @c_last,
        @datetime,
        @w_street_1,
        @w_street_2,
        @w_city,
        @w_state,
        @w_zip,
        @d_street_1,
        @d_street_2,
        @d_city,
        @d_state,
        @d_zip,
        @c_first,
        @c_middle,
        @c_street_1,
        @c_street_2,
        @c_city,
        @c_state,
        @c_zip,
        @c_phone,
        @c_since,
        @c_credit,
        @c_credit_lim,
        @c_discount,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        @c_balance,
        @screen_data
GO

CREATE PROCEDURE    tpcc_stocklevel
                        @w_id           int,
                        @d_id           tinyint,
                        @threshhold     smallint
AS
DECLARE @delaytime  varchar(30)

-------------------------------------------------
-- uniform random delay of 0 - 3.6 second; avg = 1.8
-------------------------------------------------
SELECT  @delaytime  = '00:00:0' + CAST(CAST((RAND()*0.20) AS decimal(4,3)) AS
char(5))

WAITFOR delay @delaytime

SELECT  49
GO

CREATE PROCEDURE tpcc_version

AS
DECLARE @version    char(8)

BEGIN
    SELECT  @version = '4.10.000'

    SELECT  @version AS 'Version'
END
GO

CREATE TABLE    order_line_null (
                                    [ol_i_id] [int] NOT NULL ,
                                    [ol_supply_w_id] [int] NOT NULL ,
                                    [ol_delivery_d] [datetime] NOT NULL ,
                                    [ol_quantity] [smallint] NOT NULL ,
                                    [ol_amount] [numeric](6, 2) NOT NULL
) ON [PRIMARY]
GO

INSERT INTO order_line_null VALUES ( 101, 1, GETDATE(), 1, 123.45 )
INSERT INTO order_line_null VALUES ( 102, 1, GETDATE(), 2, 123.45 )
INSERT INTO order_line_null VALUES ( 103, 1, GETDATE(), 3, 123.45 )
INSERT INTO order_line_null VALUES ( 104, 1, GETDATE(), 4, 123.45 )
INSERT INTO order_line_null VALUES ( 105, 1, GETDATE(), 5, 123.45 )
INSERT INTO order_line_null VALUES ( 106, 1, GETDATE(), 1, 123.45 )
INSERT INTO order_line_null VALUES ( 107, 1, GETDATE(), 2, 123.45 )
INSERT INTO order_line_null VALUES ( 108, 1, GETDATE(), 3, 123.45 )
INSERT INTO order_line_null VALUES ( 109, 1, GETDATE(), 4, 123.45 )
INSERT INTO order_line_null VALUES ( 110, 1, GETDATE(), 5, 123.45 )
INSERT INTO order_line_null VALUES ( 111, 1, GETDATE(), 1, 123.45 )
INSERT INTO order_line_null VALUES ( 112, 1, GETDATE(), 2, 123.45 )
INSERT INTO order_line_null VALUES ( 113, 1, GETDATE(), 3, 123.45 )
INSERT INTO order_line_null VALUES ( 114, 1, GETDATE(), 4, 123.45 )
INSERT INTO order_line_null VALUES ( 115, 1, GETDATE(), 5, 123.45 )
GO
```

ordstat.sql

```
-----------------------------------------------------------------
--                                                             --
--  File:   ORDSTAT.SQL                                        --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62            --
--          Copyright Microsoft, 2005                          --
--                                                             --
--          Creates order status stored procedure              --
--                                                             --
--          Interface Level:    4.20.000                       --
--                                                             --
-----------------------------------------------------------------
SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_orderstatus' )
    DROP PROCEDURE tpcc_orderstatus
GO

CREATE PROCEDURE    tpcc_orderstatus
                        @w_id       int,
                        @d_id       tinyint,

                        @c_id       int,
                        @c_last     char(16) = ''

AS
DECLARE @c_balance      money,
        @c_first        char(16),
        @c_middle       char(2),
        @o_id           int,
        @o_entry_d      datetime,
        @o_carrier_id   smallint,
        @cnt            smallint

BEGIN TRANSACTION o
    IF (@c_id = 0)
    BEGIN
        ------------------------------------------
        --  get customer id and info using last name
        ------------------------------------------
        SELECT  @cnt    = (count(*)+1)/2
        FROM    customer WITH (repeatableread)
        WHERE   c_last  = @c_last AND
                c_w_id  = @w_id AND
                c_d_id  = @d_id

        SET     rowcount @cnt

        SELECT  @c_id       = c_id,
                @c_balance  = c_balance,
                @c_first    = c_first,
                @c_last     = c_last,
                @c_middle   = c_middle
        FROM    customer WITH (repeatableread)
        WHERE   c_last      = @c_last AND
                c_w_id      = @w_id AND
                c_d_id      = @d_id
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    ORDER   BY c_w_id, c_d_id, c_last, c_first

    SET rowcount 0
END
ELSE
BEGIN
    ------------------------------
    --  get customer info if by id
    ------------------------------
    SELECT  @c_balance  = c_balance,
            @c_first    = c_first,
            @c_middle   = c_middle,
            @c_last     = c_last
    FROM    customer WITH (repeatableread)
    WHERE   c_id        = @c_id AND
            c_d_id      = @d_id AND
            c_w_id      = @w_id

    SELECT  @cnt          = @@rowcount
END

-----------------------
--  if no such customer
-----------------------
IF (@cnt = 0)
BEGIN
    RAISERROR('Customer not found',18,1)
    GOTO custnotfound
END

------------------
--  get order info
------------------
SELECT  @o_id           = o_id,
        @o_entry_d      = o_entry_d,
        @o_carrier_id   = o_carrier_id
FROM    orders WITH (serializable)
WHERE   o_c_id          = @c_id AND
        o_d_id          = @d_id AND
        o_w_id          = @w_id
ORDER   BY o_id ASC

--------------------------------------------
--  select order lines for the current order
--------------------------------------------
SELECT  ol_supply_w_id,
        ol_i_id,
        ol_quantity,
        ol_amount,
        ol_delivery_d
FROM    order_line WITH (repeatableread)
WHERE   ol_o_id = @o_id AND
        ol_d_id = @d_id AND
        ol_w_id = @w_id

custnotfound:

COMMIT TRANSACTION o

-------------------------
--  return data to client
-------------------------
SELECT  @c_id,
        @c_last,
        @c_first,
        @c_middle,
        @o_entry_d,
        @o_carrier_id,
        @c_balance,
        @o_id
GO
```

payment.sql

```
-----------------------------------------------------------------
--                                                             --
--  File:   PAYMENT.SQL                                        --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62            --
--          Copyright Microsoft, 2005                          --
--                                                             --
--          Creates payment stored procedure                   --
--                                                             --
--          Interface Level:    4.20.000                       --
--                                                             --
-----------------------------------------------------------------
SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_payment' )
    DROP PROCEDURE tpcc_payment
GO

CREATE PROCEDURE    tpcc_payment
                        @w_id       int,
                        @c_w_id     int,
                        @h_amount   smallmoney,
                        @d_id       tinyint,
                        @c_d_id     tinyint,
                        @c_id       int,
                        @c_last     char(16) = ""

AS
DECLARE @w_street_1     char(20),
        @w_street_2     char(20),
        @w_city         char(20),
        @w_state        char(2),
        @w_zip          char(9),
        @w_name         char(10),
        @d_street_1     char(20),
        @d_street_2     char(20),
        @d_city         char(20),
        @d_state        char(2),
        @d_zip          char(9),
        @d_name         char(10),
        @c_first        char(16),
        @c_middle       char(2),
        @c_street_1     char(20),
        @c_street_2     char(20),
        @c_city         char(20),
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        @c_state        char(2),
        @c_zip          char(9),
        @c_phone        char(16),
        @c_since        datetime,
        @c_credit       char(2),
        @c_credit_lim   money,
        @c_balance      money,
        @c_discount     smallmoney,
        @c_data         char(42),
        @datetime       datetime,
        @w_ytd          money,
        @d_ytd          money,
        @cnt            smallint,
        @val            smallint,
        @screen_data    char(200),
        @d_id_local     tinyint,
        @w_id_local     int,
        @c_id_local     int

SELECT  @screen_data    = ""

BEGIN TRANSACTION p
    --  get payment date
    SELECT  @datetime = GETDATE()

    IF (@c_id = 0)
    BEGIN
        --  get customer id and info using last name
        SELECT  @cnt    = COUNT(*)
        FROM    customer WITH (repeatableread)
        WHERE   c_last  = @c_last AND
                          c_w_id  = @c_w_id AND
                          c_d_id  = @c_d_id


        SELECT  @val    = (@cnt + 1) / 2

        SET     rowcount @val

        SELECT  @c_id   = c_id
        FROM    customer WITH (repeatableread)
        WHERE   c_last  = @c_last AND
                          c_w_id  = @c_w_id AND
                          c_d_id  = @c_d_id
        ORDER   BY c_last, c_first

        SET     rowcount 0
    END

    --  get customer info and update balances
    UPDATE  customer
    SET     @c_balance      = c_balance = c_balance - @h_amount,
            c_payment_cnt   = c_payment_cnt + 1,
            c_ytd_payment   = c_ytd_payment + @h_amount,
            @c_first        = c_first,
            @c_middle       = c_middle,
            @c_last         = c_last,
            @c_street_1     = c_street_1,
            @c_street_2     = c_street_2,
            @c_city         = c_city,
            @c_state        = c_state,
            @c_zip          = c_zip,
            @c_phone        = c_phone,
            @c_credit       = c_credit,
            @c_credit_lim   = c_credit_lim,
            @c_discount     = c_discount,
            @c_since        = c_since,
            @c_id_local     = c_id
    WHERE   c_id            = @c_id AND
            c_w_id          = @c_w_id AND
            c_d_id          = @c_d_id

    --  if customer has bad credit get some more info
    IF (@c_credit = "BC")
    BEGIN
        --          compute new info
        SELECT  @c_data =   convert(char(5),@c_id) +
                            convert(char(4),@c_d_id) +
                            convert(char(5),@c_w_id) +
                            convert(char(4),@d_id) +
                            convert(char(5),@w_id) +
                            convert(char(19),@h_amount)

        --  update customer info
        UPDATE  customer
        SET     c_data          = @c_data + substring(c_data, 1, 458),
                @screen_data    = @c_data + substring(c_data, 1, 158)

        WHERE   c_id            = @c_id AND
                c_w_id          = @c_w_id AND
                c_d_id          = @c_d_id
    END

    --  get district data and update year-to-date
    UPDATE  district
    SET     d_ytd       = d_ytd + @h_amount,
            @d_street_1 = d_street_1,
            @d_street_2 = d_street_2,
            @d_city     = d_city,
            @d_state    = d_state,
            @d_zip      = d_zip,
            @d_name     = d_name,
            @d_id_local = d_id
    WHERE   d_w_id      = @w_id AND
            d_id        = @d_id

    --  get warehouse data and update year-to-date
    UPDATE  warehouse
    SET     w_ytd       = w_ytd + @h_amount,
            @w_street_1 = w_street_1,
            @w_street_2 = w_street_2,
            @w_city     = w_city,
            @w_state     = w_state,
            @w_zip      = w_zip,
            @w_name     = w_name,
            @w_id_local = w_id
    WHERE   w_id        = @w_id

    --  create history record
          INSERT INTO         history VALUES (@c_id_local,
                                @c_d_id,
                                @c_w_id,
                                @d_id_local,
                                @w_id_local,
                                @datetime,
                                @h_amount,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                @w_name + '    ' + @d_name)

    COMMIT TRANSACTION p

    --  return data to client
    SELECT  @c_id,
            @c_last,
            @datetime,
            @w_street_1,
            @w_street_2,
            @w_city,
            @w_state,
            @w_zip,
            @d_street_1,
            @d_street_2,
            @d_city,
            @d_state,
            @d_zip,
            @c_first,
            @c_middle,
            @c_street_1,
            @c_street_2,
            @c_city,
            @c_state,
            @c_zip,
            @c_phone,
            @c_since,
            @c_credit,
            @c_credit_lim,
            @c_discount,
            @c_balance,
            @screen_data
GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO
```

random.c

```
//        File:               RANDOM.C
//                                    Microsoft TPC-C Kit Ver. 4.62
//                                    Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2005
//        Purpose:  Random number generation routines for database loader


// Includes
#include "tpcc.h"
#include "math.h"

// Defines
#define A            16807
#define M       2147483647
#define Q           127773      /* M div A */
#define R             2836      /* M mod A */
#define Thread      __declspec(thread)

// Globals
long      Thread Seed = 0;       /* thread local seed */
```

```
/**********************************************************************
*                                                                     *
* random -                                                            *
*       Implements a GOOD pseudo random number generator.  This generator     *
*       will/should? run the complete period before repeating.                *
*                                                                     *
* Copied from:                                                        *
*       Random Numbers Generators: Good Ones Are Hard to Find.                *
*       Communications of the ACM - October 1988 Volume 31 Number 10          *
*                                                                     *
* Machine Dependencies:                                               *
*       long must be 2 ^ 31 - 1 or greater.                            *
*                                                                     *
**********************************************************************/

/**********************************************************************
* seed - load the Seed value used in irand and drand.  Should be used before  *
*       first call to irand or drand.                                 *
**********************************************************************/

void seed(long val)
{

#ifdef DEBUG
    printf("[%ld]DBG: Entering seed()...\n", (int) GetCurrentThreadId());
          printf("Old Seed %ld New Seed %ld\n",Seed, val);
#endif

    if ( val < 0 )
              val = abs(val);

    Seed = val;

}


/**********************************************************************
*                                                                     *
* irand - returns a 32 bit integer pseudo random number with a period of     *
*       1 to 2 ^ 32 - 1.                                              *
*                                                                     *
* parameters:                                                         *
*       none.                                                         *
*                                                                     *
* returns:                                                            *
*       32 bit integer - defined as long ( see above ).                *
*                                                                     *
* side effects:                                                       *
*       seed get recomputed.                                          *
**********************************************************************/

long irand()
{
    register long    s;      /* copy of seed */
    register long    test;   /* test flag */
    register long    hi;     /* tmp value for speed */
    register long    lo;     /* tmp value for speed */

#ifdef DEBUG
    printf("[%ld]DBG: Entering irand()...\n", (int) GetCurrentThreadId());
#endif
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    s = Seed;
    hi = s / Q;
    lo = s % Q;

    test = A * lo - R * hi;
    if ( test > 0 )
                    Seed = test;
    else
                    Seed = test + M;

    return( Seed );
}


/*****************************************************************************
*                                                                            *
* drand - returns a double pseudo random number between 0.0 and 1.0.         *
*       See irand.                                                           *
*****************************************************************************/
double drand()
{

#ifdef DEBUG
    printf("[%ld]DBG: Entering drand()...\n", (int) GetCurrentThreadId());
#endif

    return( (double)irand() / 2147483647.0);
}


//==============================================================================
// Function   : RandomNumber
//
// Description:
//==============================================================================
long RandomNumber(long lower, long upper)
{
    long rand_num;

#ifdef DEBUG
    printf("[%ld]DBG: Entering RandomNumber()...\n", (int) GetCurrentThreadId());
#endif

          if ( upper == lower )         /* pgd 08-13-96 perf enhancement */
                    return lower;

          upper++;

    if ( upper <= lower )
                    rand_num = upper;
    else
                    rand_num = lower + irand() % (upper - lower); /* pgd 08-13-96
perf enhancement */


#ifdef DEBUG
    printf("[%ld]DBG: RandomNumber between %ld & %ld ==> %ld\n",
                                        (int) GetCurrentThreadId(), lower, upper,
rand_num);
#endif


    return rand_num;
}


#if 0

//Orginal code pgd 08/13/96

long RandomNumber(long lower,
                                                long upper)
{
    long rand_num;

#ifdef DEBUG
    printf("[%ld]DBG: Entering RandomNumber()...\n", (int) GetCurrentThreadId());
#endif

          upper++;

    if ((upper <= lower))
                    rand_num = upper;
    else
                    rand_num = lower + irand() % ((upper > lower) ? upper - lower :
upper);


#ifdef DEBUG
    printf("[%ld]DBG: RandomNumber between %ld & %ld ==> %ld\n",
                                          (int) GetCurrentThreadId(), lower, upper,
rand_num);
#endif


    return rand_num;
}
#endif

//==============================================================================
// Function   : NURand
//
// Description:
//==============================================================================
long NURand(int iConst,
              long x,
              long y,
              long C)
{
    long rand_num;

#ifdef DEBUG
    printf("[%ld]DBG: Entering NURand()...\n", (int) GetCurrentThreadId());
#endif

    rand_num = (((RandomNumber(0,iConst) | RandomNumber(x,y)) + C) % (y-x+1))+x;

#ifdef DEBUG
    printf("[%ld]DBG: NURand: num = %d\n", (int) GetCurrentThreadId(), rand_num);
#endif

    return rand_num;
}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

removedb.sql

```
--  File:     REMOVEDB.SQL
--            Microsoft TPC-C Benchmark Kit Ver. 4.22
--            Copyright Microsoft, 2001
--  Purpose:  Removes tpcc database and backup files


use master
go

--  remove any existing database and backup files

exec sp_dbremove tpcc, dropdev
go

exec sp_dropdevice 'tpccback1'
exec sp_dropdevice 'tpccback2'
exec sp_dropdevice 'tpccback3'
exec sp_dropdevice 'tpccback4'
go
```

restore.sql

```
--  File:     RESTORE.SQL
--            Microsoft TPC-C Benchmark Kit Ver. 4.22
--            Copyright Microsoft, 2001
--  Purpose:  Loads database backup from backup files


declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:", convert(varchar(30),@startdate,9)

load database tpcc from tpccback1, tpccback2, tpccback3, tpccback4 with stats = 1,
replace

select @enddate = getdate()
select "End date: ", convert(varchar(30),@enddate,9)
select "Elapsed time (in seconds): ", datediff(second, @startdate, @enddate)

go

sp_dboption tpcc,'torn page detection','false'
go
```

RunSQLCfg.sql

```
-----------------------------------------------------------------
--                                                             --
--  File:   RUNSQLCFG.SQL                                      --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62            --
--          Copyright Microsoft, 2005                          --
--                                                             --
--          Sets suggested runtime server configuration        --
--          parameters                                         --
--                                                             --
-----------------------------------------------------------------

EXEC sp_configure 'show advanced option', 1
GO

RECONFIGURE WITH OVERRIDE
GO

-----------------------------------------------------------------
-- change this value to approximately the number of connected users
-----------------------------------------------------------------
EXEC sp_configure 'max worker threads',255

-----------------------------------------------------------------
-- increase priority of user threads
-----------------------------------------------------------------
EXEC sp_configure 'priority boost',1

-----------------------------------------------------------------
-- disable automatic checkpointing
-----------------------------------------------------------------
EXEC sp_configure 'recovery interval',32767

-----------------------------------------------------------------
-- change to a mask appropriate for the number of processors on the server
-----------------------------------------------------------------
EXEC sp_configure 'affinity mask',0xf

-----------------------------------------------------------------
-- enable fibers
-----------------------------------------------------------------
EXEC sp_configure 'lightweight pooling',1
GO

RECONFIGURE WITH OVERRIDE
GO
```

sqlshutdown.sql

```
-----------------------------------------------------------------
--                                                             --
--  File:   SQLSHUTDOWN.SQL                                    --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62            --
--          Copyright Microsoft, 2005                          --
--                                                             --
--          Checkpoints tpcc database and issues a shutdown    --
--                                                             --
-----------------------------------------------------------------
USE tpcc
GO

CHECKPOINT
GO

SHUTDOWN
GO
```

stocklev.sql

```
-----------------------------------------------------------------
--                                                             --
--  File:   STOCKLEV.SQL                                       --
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
--          Microsoft TPC-C Benchmark Kit Ver. 4.62             --
--          Copyright Microsoft, 2005                           --
--                                                              --
--          Creates stock level stored procedure                --
--                                                              --
--          Interface Level:    4.20.000                        --
--                                                              --
------------------------------------------------------------------
SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_stocklevel' )
    DROP PROCEDURE tpcc_stocklevel
GO

CREATE PROCEDURE    tpcc_stocklevel
                        @w_id           int,
                        @d_id           tinyint,
                        @threshhold     smallint

AS
DECLARE @o_id_low   int,
        @o_id_high  int

SELECT  @o_id_low   = (d_next_o_id - 20),
        @o_id_high  = (d_next_o_id - 1)
FROM    district
WHERE   d_w_id      = @w_id AND
        d_id        = @d_id

SELECT  COUNT(DISTINCT(s_i_id))
FROM    stock,
        order_line
WHERE   ol_w_id     = @w_id AND
        ol_d_id     = @d_id and
        ol_o_id     BETWEEN @o_id_low AND
                            @o_id_high AND
        s_w_id      = ol_w_id AND
        s_i_id      = ol_i_id AND
        s_quantity  < @threshhold
OPTION(ORDER GROUP)
GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO
```

strings.c

```
//        File:               STRINGS.C
//                                    Microsoft TPC-C Kit Ver. 4.51
//                                    Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2003
//        Purpose:  Source file for database loader string functions


// Includes
#include "tpcc.h"
#include <string.h>
#include <ctype.h>

//==================================================================
//
// Function name: MakeAddress
//
//==================================================================

void MakeAddress(char *street_1,
                                        char *street_2,
                                        char *city,
                                        char *state,
                                        char *zip)
{

#ifdef DEBUG
    printf("[%ld]DBG: Entering MakeAddress()\n", (int) GetCurrentThreadId());
#endif

    MakeAlphaString (10, 20, ADDRESS_LEN, street_1);
    MakeAlphaString (10, 20, ADDRESS_LEN, street_2);
    MakeAlphaString (10, 20, ADDRESS_LEN, city);
    MakeAlphaString ( 2,  2, STATE_LEN, state);
    MakeZipNumberString( 9,  9, ZIP_LEN, zip);

#ifdef DEBUG
    printf("[%ld]DBG: MakeAddress: street_1: %s, street_2: %s, city: %s, state: %s,
zip: %s\n",
                                (int) GetCurrentThreadId(), street_1, street_2, city,
state, zip);
#endif

    return;

}


//==================================================================
//
// Function name: LastName
//
//==================================================================

void LastName(int  num,
                            char *name)
{
    static char *n[] =
    {
                    "BAR" , "OUGHT", "ABLE" , "PRI"  , "PRES",
                    "ESE" , "ANTI" , "CALLY", "ATION", "EING"
    };

#ifdef DEBUG
    printf("[%ld]DBG: Entering LastName()\n", (int) GetCurrentThreadId());
#endif

    if ((num >= 0) && (num < 1000))
    {
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    strcpy(name, n[(num/100)%10]);
                    strcat(name, n[(num/10)%10]);
                    strcat(name, n[(num/1)%10]);

                    if (strlen(name) < LAST_NAME_LEN)
                    {
                              PaddString(LAST_NAME_LEN, name);
                    }

    }
    else
    {
                    printf("\nError in LastName()... num <%ld> out of range
(0,999)\n", num);
                    exit(-1);
    }


#ifdef DEBUG
    printf("[%ld]DBG: LastName: num = [%d] ==> [%d][%d][%d]\n",
                              (int) GetCurrentThreadId(), num, num/100, (num/10)%10,
num%10);
          printf("[%ld]DBG: LastName: String = %s\n", (int) GetCurrentThreadId(),
name);
#endif

    return;

}


//=============================================================================
//
// Function name: MakeAlphaString
//
//=============================================================================

//philipdu 08/13/96 Changed MakeAlphaString to use A-Z, a-z, and 0-9 in
//accordance with spec see below:
//The spec says:
//4.3.2.2 The notation random a-string [x .. y]
//(respectively, n-string [x .. y]) represents a string of random alphanumeric
//(respectively, numeric) characters of a random length of minimum x, maximum y,
//and mean (y+x)/2. Alphanumerics are A..Z, a..z, and 0..9.  The only other
//requirement is that the character set used "must be able to represent a minimum
//of 128 different characters".  We are using 8-bit chars, so this is a non issue.
//It is completely unreasonable to stuff non-printing chars into the text fields.
//-CLevine 08/13/96

int MakeAlphaString( int  x, int  y, int  z, char *str)
{
          int                 len;
          int                 i;
    char    cc = 'a';
          static    char chArray[] =
"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
          static    int       chArrayMax = 61;

#ifdef DEBUG
    printf("[%ld]DBG: Entering MakeAlphaString()\n", (int) GetCurrentThreadId());
#endif

          len= RandomNumber(x, y);

          for (i=0; i<len; i++)
                    str[i] = chArray[RandomNumber(0,chArrayMax)];
          str[len] = 0;

    return len;
}

int MakeAlphaStringPadded( int  minLen, int  maxLen, int  padLen, char *str)
{
          int                 len;
          int                 i;
    char    cc = 'a';
          static    char chArray[] =
"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
          static    int       chArrayMax = 61;

#ifdef DEBUG
    printf("[%ld]DBG: Entering MakeAlphaStringPadded()\n", (int)
GetCurrentThreadId());
#endif

          len= RandomNumber(minLen, maxLen);

          for (i=0; i<len; i++)
                    str[i] = chArray[RandomNumber(0,chArrayMax)];
          if (len < padLen)
                    memset(str+len, ' ', padLen - len);
          str[padLen] = 0;
    return padLen;
}



//=============================================================================
//
// Function name: MakeOriginalAlphaString
//
//=============================================================================

int MakeOriginalAlphaString(int  x,
                                                                  int  y,
                                                                       int  z,
                                                                  char *str,
                                                              int  percent)
{
    int             len;
    int             val;
    int             start;

#ifdef DEBUG
    printf("[%ld]DBG: Entering MakeOriginalAlphaString()\n", (int)
GetCurrentThreadId());
#endif

    // verify prercentage is valid
    if ((percent < 0) || (percent > 100))
    {
                    printf("MakeOrigianlAlphaString: Invalid percentage: %d\n",
percent);
                    exit(-1);
    }
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    // verify string is at least 8 chars in length
    if (x < 8)
    {
                    printf("MakeOriginalAlphaString: string length must be >= 8\n");
                    exit(-1);
    }

    // Make Alpha String
    len = MakeAlphaString(x,y, z, str);

    val = RandomNumber(1,100);
    if (val <= percent)
    {
                    start = RandomNumber(0, len - 8);
                    strncpy(str + start, "ORIGINAL", 8);
    }


#ifdef DEBUG
    printf("[%ld]DBG: MakeOriginalAlphaString: : %s\n",
                            (int) GetCurrentThreadId(), str);
#endif

    return len;
}


//=============================================================================
//
// Function name: MakeNumberString
//
//=============================================================================
int MakeNumberString(int  x, int  y, int  z, char *str)
{
          char tmp[16];

          //MakeNumberString is always called MakeZipNumberString(16, 16, 16,
string)

          memset(str, '0', 16);
          itoa(RandomNumber(0, 99999999), tmp, 10);
          memcpy(str, tmp, strlen(tmp));

          itoa(RandomNumber(0, 99999999), tmp, 10);
          memcpy(str+8, tmp, strlen(tmp));

          str[16] = 0;

    return 16;
}


//=============================================================================
//
// Function name: MakeZipNumberString
//
//=============================================================================
int MakeZipNumberString(int  x, int  y, int  z, char *str)
{
          char tmp[16];

          //MakeZipNumberString is always called MakeZipNumberString(9, 9, 9,
string)

          strcpy(str, "000011111");

          itoa(RandomNumber(0, 9999), tmp, 10);
          memcpy(str, tmp, strlen(tmp));

    return 9;
}


//=============================================================================
//
// Function name: InitString
//
//=============================================================================
void InitString(char *str, int len)
{
#ifdef DEBUG
    printf("[%ld]DBG: Entering InitString()\n", (int) GetCurrentThreadId());
#endif

          memset(str, ' ', len);
    str[len] = 0;
}


//=============================================================================
// Function name: InitAddress
//
// Description:
//
//=============================================================================

void InitAddress(char *street_1, char *street_2, char *city, char *state, char *zip)
{
          memset(street_1, ' ', ADDRESS_LEN+1);
          memset(street_2, ' ', ADDRESS_LEN+1);
          memset(city, ' ', ADDRESS_LEN+1);

    street_1[ADDRESS_LEN+1] = 0;
    street_2[ADDRESS_LEN+1] = 0;
    city[ADDRESS_LEN+1]     = 0;

          memset(state, ' ', STATE_LEN+1);
    state[STATE_LEN+1] = 0;

          memset(zip, ' ', ZIP_LEN+1);
    zip[ZIP_LEN+1] = 0;
}


//=============================================================================
//
// Function name: PaddString
//
//=============================================================================

void PaddString(int max, char *name)
{
          int                 len;

          len = strlen(name);
          if ( len < max )
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                memset(name+len, ' ', max - len);
        name[max] = 0;

        return;
}
```

tables.sql

```
-----------------------------------------------------------------------
--                                                                   --
--  File:   TABLES.SQL                                               --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                  --
--          Copyright Microsoft, 2005                                --
--                                                                   --
--          Creates TPC-C tables                                     --
-----------------------------------------------------------------------

SET ANSI_NULL_DFLT_OFF ON
GO

USE tpcc
GO

-------------------------------------
-- Remove all existing TPC-C tables
-------------------------------------
if exists ( select name from sysobjects where name = 'warehouse' )
        drop table warehouse
go
if exists ( select name from sysobjects where name = 'district' )
        drop table district
go
if exists ( select name from sysobjects where name = 'customer' )
        drop table customer
go
if exists ( select name from sysobjects where name = 'history' )
        drop table history
go
if exists ( select name from sysobjects where name = 'new_order' )
        drop table new_order
go
if exists ( select name from sysobjects where name = 'orders' )
        drop table orders
go
if exists ( select name from sysobjects where name = 'order_line' )
        drop table order_line
go
if exists ( select name from sysobjects where name = 'item' )
        drop table item
go
if exists ( select name from sysobjects where name = 'stock' )
        drop table stock
go

--------------------
-- Create new tables
--------------------
create table warehouse
(
        w_id            int,
        w_ytd           money,
        w_tax           smallmoney,
        w_name          char(10),
        w_street_1      char(20),
        w_street_2      char(20),
        w_city          char(20),
        w_state         char(2),
        w_zip           char(9)
) on MSSQL_misc_fg
go

create table district
(
        d_id            tinyint,
        d_w_id          int,
        d_ytd           money,
        d_next_o_id             int,
        d_tax           smallmoney,
        d_name          char(10),
        d_street_1      char(20),
        d_street_2      char(20),
        d_city          char(20),
        d_state         char(2),
        d_zip           char(9)
) on MSSQL_misc_fg
go

create table customer
(
        c_id            int,
        c_d_id          tinyint,
        c_w_id          int,
        c_discount      smallmoney,
        c_credit_lim    money,
        c_last          char(16),
        c_first         char(16),
        c_credit        char(2),
        c_balance       money,
        c_ytd_payment   money,
        c_payment_cnt   smallint,
        c_delivery_cnt  smallint,
        c_street_1      char(20),
        c_street_2      char(20),
        c_city          char(20),
        c_state         char(2),
        c_zip           char(9),
        c_phone         char(16),
        c_since         datetime,
        c_middle        char(2),
        c_data          char(500)
) on MSSQL_cs_fg
go

-- Use the following table option if using c_data varchar(max)
-- sp_tableoption 'customer','large value types out of row','1'
-- go

create table history
(
        h_c_id          int,
        h_c_d_id        tinyint,
        h_c_w_id        int,
        h_d_id          tinyint,
        h_w_id          int,
        h_date          datetime,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          h_amount            smallmoney,
          h_data              char(24)
) on MSSQL_misc_fg
go

create table new_order
(
          no_o_id             int,
          no_d_id             tinyint,
          no_w_id             int
) on MSSQL_misc_fg
go

create table orders
(
          o_id                int,
          o_d_id              tinyint,
          o_w_id              int,
          o_c_id              int,
          o_carrier_id        tinyint,
          o_ol_cnt            tinyint,
          o_all_local         tinyint,
          o_entry_d           datetime
) on MSSQL_misc_fg
go

create table order_line
(
          ol_o_id             int,
          ol_d_id             tinyint,
          ol_w_id             int,
          ol_number           tinyint,
          ol_i_id             int,
          ol_delivery_d       datetime,
          ol_amount           smallmoney,
          ol_supply_w_id      int,
          ol_quantity         smallint,
          ol_dist_info        char(24)
) on MSSQL_misc_fg
go

create table item
(
          i_id                int,
          i_name              char(24),
          i_price             smallmoney,
          i_data              char(50),
          i_im_id             int
) on MSSQL_misc_fg
go

create table stock
(
          s_i_id              int,
          s_w_id              int,
          s_quantity          smallint,
          s_ytd               int,
          s_order_cnt         smallint,
          s_remote_cnt        smallint,
          s_data              char(50),
          s_dist_01           char(24),
          s_dist_02           char(24),
          s_dist_03           char(24),
          s_dist_04           char(24),
          s_dist_05           char(24),
          s_dist_06           char(24),
          s_dist_07           char(24),
          s_dist_08           char(24),
          s_dist_09           char(24),
          s_dist_10           char(24)
) on MSSQL_cs_fg
go
```

time.c

```
//        File:               TIME.C
//                                      Microsoft TPC-C Kit Ver. 4.62
//                                      Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2005
//        Purpose:  Source file for time functions


// Includes
#include "tpcc.h"

// Globals
static long start_sec;


//====================================================================
//
// Function name: TimeNow
//
//====================================================================

long TimeNow()
{
   long             time_now;
   struct _timeb el_time;

#ifdef DEBUG
    printf("[%ld]DBG: Entering TimeNow()\n", (int) GetCurrentThreadId());
#endif

   _ftime(&el_time);

   time_now = ((el_time.time - start_sec) * 1000) + el_time.millitm;

   return time_now;
}
```

tpcc.h

```
//        File:               TPCC.H
//                                      Microsoft TPC-C Kit Ver. 4.51
//                                      Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2003, 2005
//        Purpose:  Header file for TPC-C database loader


// Build number of TPC Benchmark Kit
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
#define TPCKIT_VER  "4.51"

// General headers
#include <windows.h>
#include <winbase.h>
#include <stdlib.h>
#include <stdio.h>
#include <process.h>
#include <stddef.h>
#include <stdarg.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <sys\types.h>
#include <math.h>

// ODBC headers
#include <sql.h>
#include <sqlext.h>
#include <odbcss.h>

// General constants
#define MILLI                           1000
#define FALSE                                   0
#define TRUE                                    1
#define UNDEF                                           -1
#define MINPRINTASCII                              32
#define MAXPRINTASCII                             126

// Default environment constants
#define SERVER                                  ""
#define DATABASE                                "tpcc"
#define USER                                    "sa"
#define PASSWORD                          ""

// Default loader arguments
#define BATCH                                                   10000
#define DEFLDPACKSIZE                                   32768
#define LOADER_RES_FILE
          "C:\\MSTPCC.450\\SETUP\\LOGS\\load.out"
#define LOADER_LOG_PATH
          "C:\\MSTPCC.450\\SETUP\\LOGS\\"
#define LOADER_NURAND_C                                 123
#define DEF_STARTING_WAREHOUSE                  1
#define BUILD_INDEX                                     1         // build both
data and indexes
#define INDEX_ORDER                                     1         // build
indexes before load
#define SCALE_DOWN                                      0   // build a normal
scale database
#define INDEX_SCRIPT_PATH                       "scripts"

typedef struct
{
    char                                        *server;
    char                                        *database;
    char                                        *user;
    char                                        *password;
          BOOL                                  tables_all;
          // set if loading all tables
          BOOL                                  table_item;
          // set if loading ITEM table specifically
          BOOL                                  table_warehouse;    // set if
loading WAREHOUSE, DISTRICT, and STOCK
          BOOL                                  table_customer;               //
set if loading CUSTOMER and HISTORY
          BOOL                                  table_orders;                 //
set if loading NEW-ORDER, ORDERS, ORDER-LINE
    long                                        num_warehouses;
    long                                        batch;
    long                                        verbose;
          long                                  pack_size;
          char                                  *loader_res_file;
          char                                  *log_path;
          char                                  *synch_servername;
          long                                  case_sensitivity;
          long                                  starting_warehouse;
          long                                  build_index;
          long                                  index_order;
          long                                  scale_down;
          char                                  *index_script_path;
} TPCCLDR_ARGS;

// String length constants
          #define SERVER_NAME_LEN           20
          #define DATABASE_NAME_LEN         20
          #define USER_NAME_LEN             20
          #define PASSWORD_LEN              20
          #define TABLE_NAME_LEN            20
          #define I_DATA_LEN                50
          #define I_NAME_LEN                24
          #define BRAND_LEN                  1
          #define LAST_NAME_LEN             16
          #define W_NAME_LEN                10
          #define ADDRESS_LEN               20
          #define STATE_LEN                  2
          #define ZIP_LEN                    9
          #define S_DIST_LEN                24
          #define S_DATA_LEN                50
          #define D_NAME_LEN                10
          #define FIRST_NAME_LEN            16
          #define MIDDLE_NAME_LEN            2
          #define PHONE_LEN                 16
          #define CREDIT_LEN                 2
          #define C_DATA_LEN               500
          #define H_DATA_LEN                24
          #define DIST_INFO_LEN             24
          #define MAX_OL_NEW_ORDER_ITEMS    15
          #define MAX_OL_ORDER_STATUS_ITEMS 15
          #define STATUS_LEN                25
          #define OL_DIST_INFO_LEN                  24
          #define C_SINCE_LEN                                 23
          #define H_DATE_LEN                                  23
          #define OL_DELIVERY_D_LEN                 23
          #define O_ENTRY_D_LEN             23


// Functions in random.c
void      seed();
long      irand();
double    drand();
void      WUCreate();
short     WURand();
long      RandomNumber(long lower, long upper);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
// Functions in getargs.c;
void      GetArgsLoader();
void      GetArgsLoaderUsage();

// Functions in time.c
long      TimeNow();

// Functions in strings.c
void      MakeAddress();
void      LastName();
int       MakeAlphaString();
int             MakeAlphaStringPadded();
int       MakeOriginalAlphaString();
int       MakeNumberString();
int       MakeZipNumberString();
void      InitString();
void      InitAddress();
void      PaddString();
```

tpccldr.c

```
//===================================================================
//        File:               TPCCLDR.C
//                                    Microsoft TPC-C Kit Ver. 4.51
//                                    Copyright Microsoft, 1996, 1997, 1998, 1999,
//                                    2000, 2001, 2002, 2003
//        Purpose:  Source file for TPC-C database loader
//===================================================================
// Includes
#include "tpcc.h"
#include "search.h"

// Defines
#define MAXITEMS                100000
#define MAXITEMS_SCALE_DOWN           100
#define CUSTOMERS_PER_DISTRICT  3000
#define CUSTOMERS_SCALE_DOWN  30
#define DISTRICT_PER_WAREHOUSE  10
#define ORDERS_PER_DISTRICT     3000
#define ORDERS_SCALE_DOWN       30
#define MAX_CUSTOMER_THREADS    2
#define MAX_ORDER_THREADS       3
#define MAX_MAIN_THREADS        4
#define MAX_SQL_ERRORS                          10

// Functions declarations
void HandleErrorDBC (SQLHDBC  hdbc1);
long NURand();
void LoadItem();
void LoadWarehouse();
void Stock();
void District();
void LoadCustomer();
void CustomerBufInit();
void CustomerBufLoad();
void LoadCustomerTable();
void LoadHistoryTable();
void LoadOrders();
void OrdersBufInit();
void OrdersBufLoad();
void LoadOrdersTable();
void LoadNewOrderTable();
void LoadOrderLineTable();
void GetPermutation();
void CheckForCommit();
void CheckForCommit_Big();
void OpenConnections();
void BuildIndex();
void FormatDate ();

// Shared memory structures
typedef struct
{
          double                                  ol;
    long                ol_i_id;
          long                                    ol_supply_w_id;
    short               ol_quantity;
    double              ol_amount;
    char                ol_dist_info[DIST_INFO_LEN+1];
          char
          ol_delivery_d[OL_DELIVERY_D_LEN+1];
} ORDER_LINE_STRUCT;

typedef struct
{
    long                o_id;
    short               o_d_id;
          long                                    o_w_id;
    long                o_c_id;
    short               o_carrier_id;
    short               o_ol_cnt;
    short               o_all_local;
          ORDER_LINE_STRUCT   o_ol[15];
} ORDERS_STRUCT;

typedef struct
{
    long                                  c_id;
    short                                 c_d_id;
          long                                    c_w_id;
          char                                    c_first[FIRST_NAME_LEN+1];
    char                                  c_middle[MIDDLE_NAME_LEN+1];
    char                                  c_last[LAST_NAME_LEN+1];
    char                                  c_street_1[ADDRESS_LEN+1];
    char                                  c_street_2[ADDRESS_LEN+1];
    char                                  c_city[ADDRESS_LEN+1];
    char                                  c_state[STATE_LEN+1];
    char                                  c_zip[ZIP_LEN+1];
    char                                  c_phone[PHONE_LEN+1];
    char                                  c_credit[CREDIT_LEN+1];
    double                                      c_credit_lim;
    double                                      c_discount;
          char                                    c_balance[6];
    double                                      c_ytd_payment;
          short                                   c_payment_cnt;
          short                                   c_delivery_cnt;
          char                                    c_data[C_DATA_LEN+1];
          double                                  h_amount;
    char                                  h_data[H_DATA_LEN+1];
} CUSTOMER_STRUCT;

typedef struct
{
          char                                    c_last[LAST_NAME_LEN+1];
          char                                    c_first[FIRST_NAME_LEN+1];
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
    long                                c_id;
} CUSTOMER_SORT_STRUCT;

typedef struct
{
    long                time_start;
} LOADER_TIME_STRUCT;


// Global variables
char      szLastError[300];

HENV      henv;

HDBC      v_hdbc;                                                  // for SQL
Server version verification
HDBC      i_hdbc1;                                                 // for ITEM table
HDBC      w_hdbc1;                                                 // for WAREHOUSE,
DISTRICT, STOCK
HDBC      c_hdbc1;                                                 // for CUSTOMER
HDBC      c_hdbc2;                                                 // for HISTORY
HDBC      o_hdbc1;                                                 // for ORDERS
HDBC      o_hdbc2;                                                 // for NEW-ORDER

HDBC      o_hdbc3;                                                 // for ORDER-LINE

HSTMT     v_hstmt;                                                 // for SQL Server
version verification
HSTMT     i_hstmt1;
HSTMT     w_hstmt1;
HSTMT     c_hstmt1, c_hstmt2;
HSTMT     o_hstmt1, o_hstmt2, o_hstmt3;

int                 total_db_errors;

ORDERS_STRUCT       orders_buf[ORDERS_PER_DISTRICT];
CUSTOMER_STRUCT     customer_buf[CUSTOMERS_PER_DISTRICT];
long                          orders_rows_loaded;
double                        new_order_rows_loaded;
double                        order_line_rows_loaded;
long                          history_rows_loaded;
long                          customer_rows_loaded;
double                        stock_rows_loaded;
long                          district_rows_loaded;
long                          item_rows_loaded;
long                          warehouse_rows_loaded;
long                          main_time_start;
long                          main_time_end;
long                          max_items;
long                          customers_per_district;
long                          orders_per_district;
long                          first_new_order;
long                          last_new_order;

TPCCLDR_ARGS    *aptr, args;

//==============================================================================
//
// Function name: main
//
//==============================================================================
int main(int  argc, char **argv)
{
      DWORD           dwThreadID[MAX_MAIN_THREADS];
      HANDLE          hThread[MAX_MAIN_THREADS];
      FILE            *fLoader;
      char            buffer[255];
      int                                     i;

      for (i=0; i<MAX_MAIN_THREADS; i++)
                hThread[i] = NULL;

printf("\n*************************************************");
      printf("\n*                                                *");
      printf("\n*  Microsoft SQL Server                          *");
      printf("\n*                                                *");
      printf("\n*  TPC-C BENCHMARK KIT:  Database loader         *");
      printf("\n*  Version %s                                  *", TPCKIT_VER);
      printf("\n*                                                *");
      printf("\n*************************************************\n\n");

// process command line arguments
aptr = &args;
GetArgsLoader(argc, argv, aptr);

      printf("Build interface is ODBC.\n");

      if (aptr->build_index == 0)
                printf("Data load only - no index creation.\n");
      else
                printf("Data load and index creation.\n");

      if (aptr->index_order == 0)
                printf("Clustered indexes will be created after bulk load.\n");
      else
                printf("Clustered indexes will be created before bulk load.\n");

      // set database scale values
      if (aptr->scale_down == 1)
      {
                printf("*** Scaled Down Database ***\n");
                max_items = MAXITEMS_SCALE_DOWN;
                customers_per_district = CUSTOMERS_SCALE_DOWN;
                orders_per_district = ORDERS_SCALE_DOWN;
                first_new_order = 0;
                last_new_order  = 30;
      }
      else
      {
                max_items = MAXITEMS;
                customers_per_district = CUSTOMERS_PER_DISTRICT;
                orders_per_district = ORDERS_PER_DISTRICT;
                first_new_order = 2100;
                last_new_order  = 3000;
      }

      // open connections to SQL Server
      OpenConnections();

      // open file for loader results
      fLoader = fopen(aptr->loader_res_file, "w");


if (fLoader == NULL)
      {
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                printf("Error, loader result file open failed.");
                exit(-1);
        }

    // start loading data
    sprintf(buffer,"TPC-C load started for %ld warehouses.\n",aptr->num_warehouses);
        if        (aptr->scale_down == 1)
        {
                sprintf(buffer,"SCALED DOWN DATABASE.\n");
        }

        printf("%s",buffer);
        fprintf(fLoader,"%s",buffer);

        main_time_start = (TimeNow() / MILLI);

        // start parallel load threads
        if (aptr->tables_all || aptr->table_item)
        {
                fprintf(fLoader, "\nStarting loader threads for: item\n");

                hThread[0] = CreateThread(NULL,
                                                                                0,
(LPTHREAD_START_ROUTINE) LoadItem,
NULL,
                                                                                0,
&dwThreadID[0]);

                if (hThread[0] == NULL)
                {
                        printf("Error, failed in creating creating thread =
0.\n");
                        exit(-1);
                }
        }

        if (aptr->tables_all || aptr->table_warehouse)
        {
                fprintf(fLoader, "Starting loader threads for: warehouse\n");

                hThread[1] = CreateThread(NULL,
                                                                                0,
(LPTHREAD_START_ROUTINE) LoadWarehouse,
NULL,
                                                                                0,
&dwThreadID[1]);

                if (hThread[1] == NULL)
                {
                        printf("Error, failed in creating creating thread =
1.\n");
                        exit(-1);
                }
        }

        if (aptr->tables_all || aptr->table_customer)
        {
                fprintf(fLoader, "Starting loader threads for: customer\n");

                hThread[2] = CreateThread(NULL,
                                                                                0,
(LPTHREAD_START_ROUTINE) LoadCustomer,
NULL,
                                                                                0,
&dwThreadID[2]);

                if (hThread[2] == NULL)
                {
                        printf("Error, failed in creating creating main thread
= 2.\n");
                        exit(-1);
                }
        }

        if (aptr->tables_all || aptr->table_orders)
        {
                fprintf(fLoader, "Starting loader threads for: orders\n");

                hThread[3] = CreateThread(NULL,
                                                                                0,
(LPTHREAD_START_ROUTINE) LoadOrders,
NULL,
                                                                                0,
&dwThreadID[3]);

                if (hThread[3] == NULL)
                {
                        printf("Error, failed in creating creating main thread
= 3.\n");
                        exit(-1);
                }
        }

        // Wait for threads to finish...
        for (i=0; i<MAX_MAIN_THREADS; i++)
        {
                if (hThread[i] != NULL)
                {
                        WaitForSingleObject( hThread[i], INFINITE );
                        CloseHandle(hThread[i]);
                        hThread[i] = NULL;
                }
        }

        main_time_end = (TimeNow() / MILLI);

    sprintf(buffer,"\nTPC-C load completed successfully in %ld minutes.\n",
                        (main_time_end - main_time_start)/60);

        printf("%s",buffer);
        fprintf(fLoader, "%s", buffer);

        fclose(fLoader);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        SQLFreeEnv(henv);

    exit(0);

        return 0;
}


//====================================================================
//
// Function name: LoadItem
//
//====================================================================
void LoadItem()
{
    int                     i;
        long                i_id;
        long                i_im_id;
    char            i_name[I_NAME_LEN+1];
    double                  i_price;
    char            i_data[I_DATA_LEN+1];
        char                name[20];
        long                time_start;
        RETCODE             rc;
        DBINT               rcint;
        char                bcphint[128];
        char                err_log_path[256];

        // Seed with unique number
        seed(11);

        printf("Loading item table...\n");

        //if build index before load
        if ((aptr->build_index == 1) && (aptr->index_order == 1))
                BuildIndex("idxitmcl");

        InitString(i_name, I_NAME_LEN+1);
        InitString(i_data, I_DATA_LEN+1);

        sprintf(name, "%s..%s", aptr->database, "item");

        strcpy(err_log_path,aptr->log_path);
        strcat(err_log_path,"item.err");
        rc = bcp_init(i_hdbc1, name, NULL, err_log_path , DB_IN);
        if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);

        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                sprintf(bcphint, "tablock, order (i_id), ROWS_PER_BATCH =
100000");
                rc = bcp_control(i_hdbc1, BCPHINTS, (void*) bcphint);
                if (rc != SUCCEED)
                        HandleErrorDBC(i_hdbc1);
        }

        i = 0;
        rc = bcp_bind(i_hdbc1, (BYTE *) &i_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);
        rc = bcp_bind(i_hdbc1, (BYTE *) i_name, 0, I_NAME_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);
        rc = bcp_bind(i_hdbc1, (BYTE *) &i_price, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);
        rc = bcp_bind(i_hdbc1, (BYTE *) i_data, 0, SQL_VARLEN_DATA, "", 1, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);
        rc = bcp_bind(i_hdbc1, (BYTE *) &i_im_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);

        time_start = (TimeNow() / MILLI);

        item_rows_loaded = 0;

        for (i_id = 1; i_id <= max_items; i_id++)
        {
                i_im_id = RandomNumber(1L, 10000L);

                MakeAlphaStringPadded(14, 24, I_NAME_LEN, i_name);

                i_price = ((float) RandomNumber(100L, 10000L))/100.0;

                MakeOriginalAlphaString(26, 50, I_DATA_LEN, i_data, 10);

                rc = bcp_sendrow(i_hdbc1);
                if (rc != SUCCEED)
                        HandleErrorDBC(i_hdbc1);

                item_rows_loaded++;
                CheckForCommit(i_hdbc1, i_hstmt1, item_rows_loaded, "item",
&time_start);
        }

        rcint = bcp_done(i_hdbc1);
        if (rcint < 0)
                HandleErrorDBC(i_hdbc1);

        printf("Finished loading item table.\n");

        SQLFreeStmt(i_hstmt1, SQL_DROP);
        SQLDisconnect(i_hdbc1);
        SQLFreeConnect(i_hdbc1);

        // if build index after load
        if ((aptr->build_index == 1) && (aptr->index_order == 0))
                BuildIndex("idxitmcl");

}

//============================================================================
//
// Function   : LoadWarehouse
//
// Loads WAREHOUSE table and loads Stock and District as Warehouses are created
//
//============================================================================
void LoadWarehouse()
{
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        int                 i;
        long      w_id;
    char  w_name[W_NAME_LEN+1];
    char  w_street_1[ADDRESS_LEN+1];
    char  w_street_2[ADDRESS_LEN+1];
    char  w_city[ADDRESS_LEN+1];
    char  w_state[STATE_LEN+1];
    char  w_zip[ZIP_LEN+1];
    double          w_tax;
    double          w_ytd;
        char      name[20];
        long      time_start;
        RETCODE   rc;
        DBINT     rcint;
        char      bcphint[128];
        char      err_log_path[256];

        // Seed with unique number
        seed(2);

        printf("Loading warehouse table...\n");

        // if build index before load...
        if ((aptr->build_index == 1) && (aptr->index_order == 1))
                  BuildIndex("idxwarcl");

        InitString(w_name, W_NAME_LEN+1);
        InitAddress(w_street_1, w_street_2, w_city, w_state, w_zip);

        sprintf(name, "%s..%s", aptr->database, "warehouse");

        strcpy(err_log_path,aptr->log_path);
        strcat(err_log_path,"whouse.err");
        rc = bcp_init(w_hdbc1, name, NULL, err_log_path, DB_IN);

        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);

        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                  sprintf(bcphint, "tablock, order (w_id), ROWS_PER_BATCH = %d",
aptr->num_warehouses);
                  rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcphint);
                  if (rc != SUCCEED)
                            HandleErrorDBC(w_hdbc1);
        }

        i = 0;
        rc = bcp_bind(w_hdbc1, (BYTE *) &w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &w_ytd, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &w_tax, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_name, 0, W_NAME_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_street_1, 0, ADDRESS_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_street_2, 0, ADDRESS_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_city, 0, ADDRESS_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_state, 0, STATE_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_zip, 0, ZIP_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                  HandleErrorDBC(w_hdbc1);

        time_start = (TimeNow() / MILLI);

        warehouse_rows_loaded = 0;

        for (w_id = (long)aptr->starting_warehouse; w_id <= aptr->num_warehouses;
w_id++)
        {
                  MakeAlphaStringPadded(6,10, W_NAME_LEN, w_name);

                  MakeAddress(w_street_1, w_street_2, w_city, w_state, w_zip);

                  w_tax = ((float) RandomNumber(0L,2000L))/10000.00;

                  w_ytd = 300000.00;

                  rc = bcp_sendrow(w_hdbc1);
                  if (rc != SUCCEED)
                            HandleErrorDBC(w_hdbc1);

                  warehouse_rows_loaded++;
                  CheckForCommit(w_hdbc1, i_hstmt1, warehouse_rows_loaded,
"warehouse", &time_start);
        }

        rcint = bcp_done(w_hdbc1);
        if (rcint < 0)
                  HandleErrorDBC(w_hdbc1);

        printf("Finished loading warehouse table.\n");

        // if build index after load...
        if ((aptr->build_index == 1) && (aptr->index_order == 0))
                  BuildIndex("idxwarcl");

        stock_rows_loaded = 0;
        district_rows_loaded = 0;

        District();
        Stock();
}

//==============================================================================
//
// Function   : District
//
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
//==================================================================
void District()
{
    int             i;
          short     d_id;
          long      d_w_id;
    char  d_name[D_NAME_LEN+1];
    char  d_street_1[ADDRESS_LEN+1];
    char  d_street_2[ADDRESS_LEN+1];
    char  d_city[ADDRESS_LEN+1];
    char  d_state[STATE_LEN+1];
    char  d_zip[ZIP_LEN+1];
    double          d_tax;
    double          d_ytd;
          char      name[20];
    long  d_next_o_id;
          long      time_start;
          long      w_id;
          RETCODE   rc;
          DBINT     rcint;
          char      bcphint[128];
          char      err_log_path[256];

          // Seed with unique number
          seed(4);

          printf("Loading district table...\n");

          // build index before load
          if ((aptr->build_index == 1) && (aptr->index_order == 1))
                    BuildIndex("idxdiscl");

          InitString(d_name, D_NAME_LEN+1);
          InitAddress(d_street_1, d_street_2, d_city, d_state, d_zip);
          sprintf(name, "%s..%s", aptr->database, "district");

          strcpy(err_log_path,aptr->log_path);
          strcat(err_log_path,"district.err");
          rc = bcp_init(w_hdbc1, name, NULL, err_log_path, DB_IN);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);

          if ((aptr->build_index == 1) && (aptr->index_order == 1))
          {
                    sprintf(bcphint, "tablock, order (d_w_id, d_id), ROWS_PER_BATCH
= %u", (aptr->num_warehouses * 10));
                    rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcphint);
                    if (rc != SUCCEED)
                              HandleErrorDBC(w_hdbc1);
          }

          i = 0;
          rc = bcp_bind(w_hdbc1, (BYTE *) &d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) &d_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) &d_ytd, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) &d_next_o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) &d_tax, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) d_name, 0, D_NAME_LEN, NULL, 0, 0, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) d_street_1, 0, ADDRESS_LEN, NULL, 0, 0,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) d_street_2, 0, ADDRESS_LEN, NULL, 0, 0,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) d_city, 0, ADDRESS_LEN, NULL, 0, 0, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) d_state, 0, STATE_LEN, NULL, 0, 0, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) d_zip, 0, ZIP_LEN, NULL, 0, 0, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);

          d_ytd  = 30000.0;

          d_next_o_id = orders_per_district+1;

          time_start = (TimeNow() / MILLI);

          for (w_id = aptr->starting_warehouse; w_id <= aptr->num_warehouses;
w_id++)
          {
                    d_w_id = w_id;

                    for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
                    {
                              MakeAlphaStringPadded(6,10,D_NAME_LEN, d_name);

                              MakeAddress(d_street_1, d_street_2, d_city, d_state,
d_zip);

                              d_tax = ((float) RandomNumber(0L,2000L))/10000.00;

                              rc = bcp_sendrow(w_hdbc1);
                              if (rc != SUCCEED)
                                        HandleErrorDBC(w_hdbc1);

                              district_rows_loaded++;
                              CheckForCommit(w_hdbc1, w_hstmt1,
district_rows_loaded, "district", &time_start);
                    }
    }

          rcint = bcp_done(w_hdbc1);
          if (rcint < 0)
                    HandleErrorDBC(w_hdbc1);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        printf("Finished loading district table.\n");

        // if build index after load...
        if ((aptr->build_index == 1) && (aptr->index_order == 0))
                BuildIndex("idxdiscl");

    return;
}

//================================================================================
//
// Function   : Stock
//
//================================================================================
void Stock()
{
        int                 i;
        long      s_i_id;
        long      s_w_id;
    short s_quantity;
    char  s_dist_01[S_DIST_LEN+1];
    char  s_dist_02[S_DIST_LEN+1];
    char  s_dist_03[S_DIST_LEN+1];
    char  s_dist_04[S_DIST_LEN+1];
    char  s_dist_05[S_DIST_LEN+1];
    char  s_dist_06[S_DIST_LEN+1];
    char  s_dist_07[S_DIST_LEN+1];
    char  s_dist_08[S_DIST_LEN+1];
    char  s_dist_09[S_DIST_LEN+1];
    char  s_dist_10[S_DIST_LEN+1];
    long  s_ytd;
    short s_order_cnt;
    short s_remote_cnt;
    char  s_data[S_DATA_LEN+1];
    short len;
        char      name[20];
        long      time_start;
        RETCODE   rc;
        DBINT     rcint;
        char      bcphint[128];
        char      err_log_path[256];

        // Seed with unique number
        seed(3);

        // if build index before load...
        if ((aptr->build_index == 1) && (aptr->index_order == 1))
                BuildIndex("idxstkcl");

        sprintf(name, "%s..%s", aptr->database, "stock");

        strcpy(err_log_path,aptr->log_path);
        strcat(err_log_path,"stock.err");
        rc = bcp_init(w_hdbc1, name, NULL, err_log_path, DB_IN);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);

        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                sprintf(bcphint, "tablock, order (s_i_id, s_w_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 100000));
                rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcphint);
                if (rc != SUCCEED)
                        HandleErrorDBC(w_hdbc1);
        }

        i = 0;
        rc = bcp_bind(w_hdbc1, (BYTE *) &s_i_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &s_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &s_quantity, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &s_ytd, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &s_order_cnt, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &s_remote_cnt, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) s_data, 0, SQL_VARLEN_DATA, "", 1, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_01, 0, S_DIST_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_02, 0, S_DIST_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_03, 0, S_DIST_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_04, 0, S_DIST_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_05, 0, S_DIST_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_06, 0, S_DIST_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_07, 0, S_DIST_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_08, 0, S_DIST_LEN, NULL, 0, 0,
++i);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_09, 0, S_DIST_LEN, NULL, 0, 0,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);
          rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_10, 0, S_DIST_LEN, NULL, 0, 0,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);

          s_ytd = s_order_cnt = s_remote_cnt = 0;

          time_start = (TimeNow() / MILLI);

          printf("...Loading stock table\n");

          for (s_i_id=1; s_i_id <= max_items; s_i_id++)
          {

                    for (s_w_id = (long)aptr->starting_warehouse; s_w_id <= aptr-
>num_warehouses; s_w_id++)
                    {

                              s_quantity = (short)RandomNumber(10L,100L);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_01);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_02);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_03);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_04);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_05);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_06);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_07);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_08);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_09);
                              len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_10);

                              len = MakeOriginalAlphaString(26,50, S_DATA_LEN,
s_data,10);

                              rc = bcp_sendrow(w_hdbc1);
                              if (rc != SUCCEED)
                                        HandleErrorDBC(w_hdbc1);

                              stock_rows_loaded++;
                              CheckForCommit_Big(w_hdbc1, w_hstmt1,
stock_rows_loaded, "stock", &time_start);
                    }
          }

          rcint = bcp_done(w_hdbc1);
          if (rcint < 0)
                    HandleErrorDBC(w_hdbc1);

          printf("Finished loading stock table.\n");

          SQLFreeStmt(w_hstmt1, SQL_DROP);
          SQLDisconnect(w_hdbc1);
          SQLFreeConnect(w_hdbc1);

          // if build index after load...
          if ((aptr->build_index == 1) && (aptr->index_order == 0))
                    BuildIndex("idxstkcl");

          return;
}

//====================================================================
//
// Function   : LoadCustomer
//
//====================================================================
void LoadCustomer()
{
          LOADER_TIME_STRUCT      customer_time_start;
          LOADER_TIME_STRUCT      history_time_start;
          long                                                w_id;
    short                         d_id;
          DWORD                             dwThreadID[MAX_CUSTOMER_THREADS];
          HANDLE                            hThread[MAX_CUSTOMER_THREADS];
          char                              name[20];
          RETCODE                                             rc;
          DBINT                                               rcint;
          char                                                bcphint[128];
          char                                                cmd[256];
          int                                                           num_procs;
          char                                                err_log_path_cust[256];
          char                                                err_log_path_hist[256];

          // Seed with unique number
          seed(5);

          printf("Loading customer and history tables...\n");

          // if build index before load...
          if ((aptr->build_index == 1) && (aptr->index_order == 1))
          {
                    BuildIndex("idxcuscl");
                     // check the number of processors on this system
                     // if 8 or more processors, then build index on History.
                     // if less than 8 processors, do not build the index
                    num_procs = atoi(getenv( "NUMBER_OF_PROCESSORS" ));
                    if ( num_procs >= 8 )
                              BuildIndex("idxhiscl");
          }

          // Initialize bulk copy
          sprintf(name, "%s..%s", aptr->database, "customer");

          strcpy(err_log_path_cust,aptr->log_path);
          strcat(err_log_path_cust,"customer.err");
          rc = bcp_init(c_hdbc1, name, NULL, err_log_path_cust, DB_IN);
          if (rc != SUCCEED)
                    HandleErrorDBC(c_hdbc1);

          if ((aptr->build_index == 1) && (aptr->index_order == 1))
          {
                    sprintf(bcphint, "tablock, order (c_w_id, c_d_id, c_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 30000));
                    rc = bcp_control(c_hdbc1, BCPHINTS, (void*) bcphint);
                    if (rc != SUCCEED)
                              HandleErrorDBC(c_hdbc1);
          }

          sprintf(name, "%s..%s", aptr->database, "history");

          rc = bcp_init(c_hdbc2, name, NULL, "logs\\history.err", DB_IN);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        strcpy(err_log_path_hist,aptr->log_path);
        strcat(err_log_path_hist,"history.err");
        rc = bcp_init(c_hdbc2, name, NULL, err_log_path_hist, DB_IN);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);

        sprintf(bcphint, "tablock");
        rc = bcp_control(c_hdbc2, BCPHINTS, (void*) bcphint);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);

        customer_rows_loaded    = 0;
        history_rows_loaded     = 0;

        CustomerBufInit();

        customer_time_start.time_start = (TimeNow() / MILLI);
        history_time_start.time_start = (TimeNow() / MILLI);

        for (w_id = (long)aptr->starting_warehouse; w_id <= aptr->num_warehouses;
w_id++)
        {
                for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
                {

                        CustomerBufLoad(d_id, w_id);

                        // Start parallel loading threads here...
                        // Start customer table thread
                        printf("...Loading customer table for: d_id = %d, w_id
= %d\n", d_id, w_id);

                        hThread[0] = CreateThread(NULL,

          0,

          (LPTHREAD_START_ROUTINE) LoadCustomerTable,

          &customer_time_start,

          0,

          &dwThreadID[0]);

                        if (hThread[0] == NULL)
                        {
                                printf("Error, failed in creating creating
thread = 0.\n");
                                exit(-1);
                        }

                        // Start History table thread
                        printf("...Loading history table for: d_id = %d, w_id
= %d\n", d_id, w_id);

                        hThread[1] = CreateThread(NULL,

          0,

          (LPTHREAD_START_ROUTINE) LoadHistoryTable,

          &history_time_start,

          0,

          &dwThreadID[1]);

                        if (hThread[1] == NULL)
                        {
                                printf("Error, failed in creating creating
thread = 1.\n");
                                exit(-1);
                        }

                        WaitForSingleObject( hThread[0], INFINITE );
                        WaitForSingleObject( hThread[1], INFINITE );

                        if (CloseHandle(hThread[0]) == FALSE)
                        {
                                printf("Error, failed in closing customer
thread handle with errno: %d\n", GetLastError());
                        }

                        if (CloseHandle(hThread[1]) == FALSE)
                        {
                                printf("Error, failed in closing history
thread handle with errno: %d\n", GetLastError());
                        }
                }
        }

        // flush the bulk connection
        rcint = bcp_done(c_hdbc1);
        if (rcint < 0)
                HandleErrorDBC(c_hdbc1);

        rcint = bcp_done(c_hdbc2);
        if (rcint < 0)
                HandleErrorDBC(c_hdbc2);

        printf("Finished loading customer table.\n");

        // if build index after load...
        if ((aptr->build_index == 1) && (aptr->index_order == 0))
        {
                BuildIndex("idxcuscl");
                // check the number of processors on this system
                // if 8 or more processors, then build index on History.
                // if less than 8 processors, do not build the index
                num_procs = atoi(getenv( "NUMBER_OF_PROCESSORS" ));
                if (num_procs >= 8)
                        BuildIndex("idxhiscl");
        }

        // build non-clustered index
        if (aptr->build_index == 1)
                BuildIndex("idxcusnc");

        // Output the NURAND used for the loader into C_FIRST for C_ID = 1,
        // C_W_ID = 1, and C_D_ID = 1
        sprintf(cmd, "osql -S%s -U%s -P%s -d%s -e -Q\"update customer set c_first
= 'C_LOAD = %d' where c_id = 1 and c_w_id = 1 and c_d_id = 1\" > %snurand_load.log",
                                        aptr->server,
                                        aptr->user,
                                        aptr->password,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                        aptr->database,
                                        LOADER_NURAND_C,
                                        aptr->log_path);

        system(cmd);

        SQLFreeStmt(c_hstmt1, SQL_DROP);
        SQLDisconnect(c_hdbc1);
        SQLFreeConnect(c_hdbc1);

        SQLFreeStmt(c_hstmt2, SQL_DROP);
        SQLDisconnect(c_hdbc2);
        SQLFreeConnect(c_hdbc2);

    return;
}

//================================================================================
//
// Function   : CustomerBufInit
//
//================================================================================
void CustomerBufInit()
{
        long     i;

        for (i=0;i<customers_per_district;i++)
        {
                customer_buf[i].c_id = 0;
                customer_buf[i].c_d_id = 0;
                customer_buf[i].c_w_id = 0;

                strcpy(customer_buf[i].c_first,"");
                strcpy(customer_buf[i].c_middle,"");
                strcpy(customer_buf[i].c_last,"");
                strcpy(customer_buf[i].c_street_1,"");
                strcpy(customer_buf[i].c_street_2,"");
                strcpy(customer_buf[i].c_city,"");
                strcpy(customer_buf[i].c_state,"");
                strcpy(customer_buf[i].c_zip,"");
                strcpy(customer_buf[i].c_phone,"");
                strcpy(customer_buf[i].c_credit,"");

                customer_buf[i].c_credit_lim = 0;
                customer_buf[i].c_discount = (float) 0;

                strcpy(customer_buf[i].c_balance,"");

                customer_buf[i].c_ytd_payment = 0;
                customer_buf[i].c_payment_cnt = 0;
                customer_buf[i].c_delivery_cnt = 0;

                strcpy(customer_buf[i].c_data,"");

                customer_buf[i].h_amount = 0;

                strcpy(customer_buf[i].h_data,"");
        }
}

//================================================================================
//
// Function   : CustomerBufLoad
//
// Fills shared buffer for HISTORY and CUSTOMER
//================================================================================
void CustomerBufLoad(int d_id, long w_id)
{
        long                                    i;
    CUSTOMER_SORT_STRUCT    c[CUSTOMERS_PER_DISTRICT];

        for (i=0;i<customers_per_district;i++)
        {
                if (i < 1000)
                        LastName(i, c[i].c_last);
                else
                        LastName(NURand(255,0,999,LOADER_NURAND_C),
c[i].c_last);

                MakeAlphaStringPadded(8,16,FIRST_NAME_LEN, c[i].c_first);

                c[i].c_id = i+1;
        }

        printf("...Loading customer buffer for: d_id = %d, w_id = %d\n",
                        d_id, w_id);

        for (i=0;i<customers_per_district;i++)
        {
                customer_buf[i].c_d_id = d_id;
                customer_buf[i].c_w_id = w_id;
                customer_buf[i].h_amount = 10.0;
                customer_buf[i].c_ytd_payment  = 10.0;
                customer_buf[i].c_payment_cnt  = 1;
                customer_buf[i].c_delivery_cnt = 0;
                customer_buf[i].c_id = c[i].c_id;
                strcpy(customer_buf[i].c_first, c[i].c_first);
                strcpy(customer_buf[i].c_last, c[i].c_last);
                customer_buf[i].c_middle[0] = 'O';
                customer_buf[i].c_middle[1] = 'E';
                MakeAddress(customer_buf[i].c_street_1,
                                        customer_buf[i].c_street_2,
                                        customer_buf[i].c_city,
                                        customer_buf[i].c_state,
                                        customer_buf[i].c_zip);
                MakeNumberString(16, 16, PHONE_LEN, customer_buf[i].c_phone);

                if (RandomNumber(1L, 100L) > 10)
                        customer_buf[i].c_credit[0] = 'G';
                else
                        customer_buf[i].c_credit[0] = 'B';
                customer_buf[i].c_credit[1] = 'C';
                customer_buf[i].c_credit_lim = 50000.0;
                customer_buf[i].c_discount = ((float) RandomNumber(0L, 5000L)) /
10000.0;
                strcpy(customer_buf[i].c_balance,"-10.0");
                MakeAlphaStringPadded(300, 500, C_DATA_LEN,
customer_buf[i].c_data);

                // Generate HISTORY data
                MakeAlphaStringPadded(12, 24, H_DATA_LEN,
customer_buf[i].h_data);
        }
}

//================================================================================
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
//
// Function   : LoadCustomerTable
//
//=============================================================================
void LoadCustomerTable(LOADER_TIME_STRUCT *customer_time_start)
{
        long                i;
    long        c_id;
    short       c_d_id;
        long                c_w_id;
    char        c_first[FIRST_NAME_LEN+1];
    char        c_middle[MIDDLE_NAME_LEN+1];
    char        c_last[LAST_NAME_LEN+1];
    char        c_street_1[ADDRESS_LEN+1];
    char        c_street_2[ADDRESS_LEN+1];
    char        c_city[ADDRESS_LEN+1];
    char        c_state[STATE_LEN+1];
    char        c_zip[ZIP_LEN+1];
    char        c_phone[PHONE_LEN+1];
    char        c_credit[CREDIT_LEN+1];
    double      c_credit_lim;
    double      c_discount;
        char                c_balance[6];
    double      c_ytd_payment;
    short       c_payment_cnt;
    short       c_delivery_cnt;
    char        c_data[C_DATA_LEN+1];
        char                c_since[C_SINCE_LEN+1];
        RETCODE             rc;

    i = 0;
        rc = bcp_bind(c_hdbc1, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
        rc = bcp_bind(c_hdbc1, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_discount, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_credit_lim, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_last, 0, LAST_NAME_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
        rc = bcp_bind(c_hdbc1, (BYTE *) c_first, 0, FIRST_NAME_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_credit, 0, CREDIT_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_balance, 0, 5, NULL, 0, SQLCHARACTER, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_ytd_payment, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_payment_cnt, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_delivery_cnt,0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0, ADDRESS_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0, ADDRESS_LEN, NULL,0,0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_city, 0, ADDRESS_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_state, 0, STATE_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_zip, 0, ZIP_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_phone, 0, PHONE_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
        rc = bcp_bind(c_hdbc1, (BYTE *) &c_since, 0, C_SINCE_LEN, NULL, 0,
SQLCHARACTER, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
        rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0, MIDDLE_NAME_LEN,NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_data, 0, C_DATA_LEN, NULL, 0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);

    for (i = 0; i < customers_per_district; i++)
    {
                c_id = customer_buf[i].c_id;
                c_d_id = customer_buf[i].c_d_id;
                c_w_id = customer_buf[i].c_w_id;

                strcpy(c_first, customer_buf[i].c_first);
                strcpy(c_middle, customer_buf[i].c_middle);
                strcpy(c_last, customer_buf[i].c_last);
                strcpy(c_street_1, customer_buf[i].c_street_1);
                strcpy(c_street_2, customer_buf[i].c_street_2);
                strcpy(c_city, customer_buf[i].c_city);
                strcpy(c_state, customer_buf[i].c_state);
                strcpy(c_zip, customer_buf[i].c_zip);
                strcpy(c_phone, customer_buf[i].c_phone);
                strcpy(c_credit, customer_buf[i].c_credit);

                FormatDate(&c_since);
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    c_credit_lim = customer_buf[i].c_credit_lim;
                    c_discount = customer_buf[i].c_discount;
                    strcpy(c_balance, customer_buf[i].c_balance);
                    c_ytd_payment = customer_buf[i].c_ytd_payment;
                    c_payment_cnt = customer_buf[i].c_payment_cnt;
                    c_delivery_cnt = customer_buf[i].c_delivery_cnt;
                    strcpy(c_data, customer_buf[i].c_data);

                    // Send data to server
                    rc = bcp_sendrow(c_hdbc1);
                    if (rc != SUCCEED)
                              HandleErrorDBC(c_hdbc1);

                    customer_rows_loaded++;
                    CheckForCommit(c_hdbc1, c_hstmt1, customer_rows_loaded,
"customer", &customer_time_start->time_start);
    }
}

//========================================================================
//
// Function   : LoadHistoryTable
//
//========================================================================
void LoadHistoryTable(LOADER_TIME_STRUCT *history_time_start)
{
          long                i;
    long        c_id;
    short       c_d_id;
          long                c_w_id;
          double    h_amount;
    char        h_data[H_DATA_LEN+1];
          char                h_date[H_DATE_LEN+1];
          RETCODE             rc;

          i = 0;
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(c_hdbc2);
          rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(c_hdbc2);
          rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(c_hdbc2);
          rc = bcp_bind(c_hdbc2, (BYTE *) &h_date, 0, H_DATE_LEN, NULL, 0,
SQLCHARACTER, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &h_amount, 0, SQL_VARLEN_DATA, NULL, 0, SQLFLT8,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) h_data, 0, H_DATA_LEN, NULL, 0, 0, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(c_hdbc2);

    for (i = 0; i < customers_per_district; i++)
    {
                    c_id = customer_buf[i].c_id;
                    c_d_id = customer_buf[i].c_d_id;
                    c_w_id = customer_buf[i].c_w_id;
                    h_amount = customer_buf[i].h_amount;
                    strcpy(h_data, customer_buf[i].h_data);

                    FormatDate(&h_date);

                    // send to server
                    rc = bcp_sendrow(c_hdbc2);
                    if (rc != SUCCEED)
                              HandleErrorDBC(c_hdbc2);

                    history_rows_loaded++;
                    CheckForCommit(c_hdbc2, c_hstmt2, history_rows_loaded,
"history", &history_time_start->time_start);
    }
}

//========================================================================-===============
//
// Function   : LoadOrders
//
//========================================================================================
void LoadOrders()
{
          LOADER_TIME_STRUCT      orders_time_start;
          LOADER_TIME_STRUCT      new_order_time_start;
          LOADER_TIME_STRUCT      order_line_time_start;
          long                                                w_id;
    short                     d_id;
          DWORD                           dwThreadID[MAX_ORDER_THREADS];
          HANDLE                          hThread[MAX_ORDER_THREADS];
          char                            name[20];
          RETCODE                                             rc;
          char                                                bcphint[128];
          char                                                err_log_path_ord[256];
          char                                                err_log_path_nord[256];
          char                                                err_log_path_ordl[256];

          // seed with unique number
          seed(6);

          printf("Loading orders...\n");

          // if build index before load...
          if ((aptr->build_index == 1) && (aptr->index_order == 1))
          {
                    BuildIndex("idxordcl");
                    BuildIndex("idxnodcl");
                    BuildIndex("idxodlcl");
          }

          // initialize bulk copy
          sprintf(name, "%s..%s", aptr->database, "orders");
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        rc = bcp_init(o_hdbc1, name, NULL, "logs\\orders.err", DB_IN);
        strcpy(err_log_path_ord,aptr->log_path);
        strcat(err_log_path_ord,"orders.err");
        rc = bcp_init(o_hdbc1, name, NULL, err_log_path_ord, DB_IN);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);

        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                sprintf(bcphint, "tablock, order (o_w_id, o_d_id, o_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 30000));
                rc = bcp_control(o_hdbc1, BCPHINTS, (void*) bcphint);
                if (rc != SUCCEED)
                        HandleErrorDBC(o_hdbc1);
        }

        sprintf(name, "%s..%s", aptr->database, "new_order");

        rc = bcp_init(o_hdbc2, name, NULL, "logs\\neword.err", DB_IN);
        strcpy(err_log_path_nord,aptr->log_path);
        strcat(err_log_path_nord,"neword.err");
        rc = bcp_init(o_hdbc2, name, NULL, err_log_path_nord, DB_IN);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc2);

        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                sprintf(bcphint, "tablock, order (no_w_id, no_d_id, no_o_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 9000));
                rc = bcp_control(o_hdbc2, BCPHINTS, (void*) bcphint);
                if (rc != SUCCEED)
                        HandleErrorDBC(o_hdbc2);
        }

        sprintf(name, "%s..%s", aptr->database, "order_line");

        rc = bcp_init(o_hdbc3, name, NULL, "logs\\ordline.err", DB_IN);
        strcpy(err_log_path_ordl,aptr->log_path);
        strcat(err_log_path_ordl,"ordline.err");
        rc = bcp_init(o_hdbc3, name, NULL, err_log_path_ordl, DB_IN);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc3);

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                sprintf(bcphint, "tablock, order (ol_w_id, ol_d_id, ol_o_id,
ol_number), ROWS_PER_BATCH = %u", (aptr->num_warehouses * 300000));
                rc = bcp_control(o_hdbc3, BCPHINTS, (void*) bcphint);
                if (rc != SUCCEED)
                        HandleErrorDBC(o_hdbc3);
        }

        orders_rows_loaded      = 0;
        new_order_rows_loaded   = 0;
        order_line_rows_loaded  = 0;

        OrdersBufInit();

        orders_time_start.time_start = (TimeNow() / MILLI);
        new_order_time_start.time_start = (TimeNow() / MILLI);
        order_line_time_start.time_start = (TimeNow() / MILLI);
```

```
        for (w_id = (long)aptr->starting_warehouse; w_id <= aptr->num_warehouses;
w_id++)
        {
                for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
                {

                        OrdersBufLoad(d_id, w_id);

                        // start parallel loading threads here...
                        // start Orders table thread
                        printf("...Loading Order Table for: d_id = %d, w_id =
%d\n", d_id, w_id);

                        hThread[0] = CreateThread(NULL,

          0,

          (LPTHREAD_START_ROUTINE) LoadOrdersTable,

          &orders_time_start,

          0,

          &dwThreadID[0]);

                        if (hThread[0] == NULL)
                        {
                                printf("Error, failed in creating creating
thread = 0.\n");
                                exit(-1);
                        }

                        // start NewOrder table thread
                        printf("...Loading New-Order Table for: d_id = %d,
w_id = %d\n", d_id, w_id);

                        hThread[1] = CreateThread(NULL,

          0,

          (LPTHREAD_START_ROUTINE) LoadNewOrderTable,

          &new_order_time_start,

          0,

          &dwThreadID[1]);

                        if (hThread[1] == NULL)
                        {
                                printf("Error, failed in creating creating
thread = 1.\n");
                                exit(-1);
                        }

                        // start Order-Line table thread
                        printf("...Loading Order-Line Table for: d_id = %d,
w_id = %d\n", d_id, w_id);

                        hThread[2] = CreateThread(NULL,

          0,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
            (LPTHREAD_START_ROUTINE) LoadOrderLineTable,

            &order_line_time_start,

            0,

            &dwThreadID[2]);

                                if (hThread[2] == NULL)
                                {
                                        printf("Error, failed in creating creating
thread = 2.\n");
                                        exit(-1);
                                }

                                WaitForSingleObject( hThread[0], INFINITE );
                                WaitForSingleObject( hThread[1], INFINITE );
                                WaitForSingleObject( hThread[2], INFINITE );

                                if (CloseHandle(hThread[0]) == FALSE)
                                {
                                        printf("Error, failed in closing Orders
thread handle with errno: %d\n", GetLastError());
                                }

                                if (CloseHandle(hThread[1]) == FALSE)
                                {
                                        printf("Error, failed in closing NewOrder
thread handle with errno: %d\n", GetLastError());
                                }

                                if (CloseHandle(hThread[2]) == FALSE)
                                {
                                        printf("Error, failed in closing OrderLine
thread handle with errno: %d\n", GetLastError());
                                }
                        }
                }

                printf("Finished loading orders.\n");

        return;
}

//==============================================================================
//
// Function   : OrdersBufInit
//
// Clears shared buffer for ORDERS, NEWORDER, and ORDERLINE
//
//==============================================================================
void OrdersBufInit()
{
        int     i;
        int             j;

        for (i=0;i<orders_per_district;i++)
        {
                orders_buf[i].o_id = 0;
                orders_buf[i].o_d_id = 0;
                orders_buf[i].o_w_id = 0;
                orders_buf[i].o_c_id = 0;
                orders_buf[i].o_carrier_id = 0;
                orders_buf[i].o_ol_cnt = 0;
                orders_buf[i].o_all_local = 0;

                for (j=0;j<=14;j++)
                {
                        orders_buf[i].o_ol[j].ol = 0;
                        orders_buf[i].o_ol[j].ol_i_id = 0;
                        orders_buf[i].o_ol[j].ol_supply_w_id = 0;
                        orders_buf[i].o_ol[j].ol_quantity = 0;
                        orders_buf[i].o_ol[j].ol_amount = 0;
                        strcpy(orders_buf[i].o_ol[j].ol_dist_info,"");
                }
        }
}

//==============================================================================
//
// Function   : OrdersBufLoad
//
// Fills shared buffer for ORDERS, NEWORDER, and ORDERLINE
//
//==============================================================================
void OrdersBufLoad(short d_id, long w_id)
{

        int     cust[ORDERS_PER_DISTRICT+1];
        long    o_id;
        long      ol;

        printf("...Loading Order Buffer for: d_id = %d, w_id = %d\n",
                        d_id, w_id);

        GetPermutation(cust, orders_per_district);

        for (o_id=0;o_id<orders_per_district;o_id++)
        {
                // Generate ORDER and NEW-ORDER data
                orders_buf[o_id].o_d_id = d_id;
                orders_buf[o_id].o_w_id = w_id;
                orders_buf[o_id].o_id = o_id+1;
                orders_buf[o_id].o_c_id = cust[o_id+1];
                orders_buf[o_id].o_ol_cnt = (short)RandomNumber(5L, 15L);

                if (o_id < first_new_order)
                {
                        orders_buf[o_id].o_carrier_id =
(short)RandomNumber(1L, 10L);
                        orders_buf[o_id].o_all_local  = 1;
                }
                else
                {
                        orders_buf[o_id].o_carrier_id = 0;
                        orders_buf[o_id].o_all_local  = 1;
                }

                for (ol=0; ol<orders_buf[o_id].o_ol_cnt; ol++)
                {

                        orders_buf[o_id].o_ol[ol].ol = ol+1;
                        orders_buf[o_id].o_ol[ol].ol_i_id = RandomNumber(1L,
max_items);
                        orders_buf[o_id].o_ol[ol].ol_supply_w_id = w_id;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                orders_buf[o_id].o_ol[ol].ol_quantity = 5;
                                MakeAlphaString(24, 24, OL_DIST_INFO_LEN,
&orders_buf[o_id].o_ol[ol].ol_dist_info);

                                // Generate ORDER-LINE data
                                if (o_id < first_new_order)
                                {
                                        orders_buf[o_id].o_ol[ol].ol_amount = 0;
                                        // Added to insure ol_delivery_d set
properly during load

          FormatDate(&orders_buf[o_id].o_ol[ol].ol_delivery_d);

                                }
                                else
                                {
                                        orders_buf[o_id].o_ol[ol].ol_amount =
RandomNumber(1,999999)/100.0;
                                        // Added to insure ol_delivery_d set
properly during load
                                        // odbc datetime format

          strcpy(orders_buf[o_id].o_ol[ol].ol_delivery_d,"1899-12-31 00:00:00.000");
                                }
                }
          }
}

//========================================================================
//
// Function   : LoadOrdersTable
//
//========================================================================
void LoadOrdersTable(LOADER_TIME_STRUCT *orders_time_start)
{
          int         i;
    long        o_id;
          short     o_d_id;
          long                o_w_id;
    long        o_c_id;
    short       o_carrier_id;
    short       o_ol_cnt;
    short       o_all_local;
          char                o_entry_d[O_ENTRY_D_LEN+1];
          RETCODE             rc;
          DBINT               rcint;

          // bind ORDER data
    i = 0;
          rc = bcp_bind(o_hdbc1, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc1);
          rc = bcp_bind(o_hdbc1, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_c_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_carrier_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_ol_cnt, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_all_local, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc1);
          rc = bcp_bind(o_hdbc1, (BYTE *) &o_entry_d, 0, O_ENTRY_D_LEN, NULL, 0,
SQLCHARACTER, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc1);

    for (i = 0; i < orders_per_district; i++)
    {
                    o_id         = orders_buf[i].o_id;
                    o_d_id       = orders_buf[i].o_d_id;
                    o_w_id       = orders_buf[i].o_w_id;
                    o_c_id       = orders_buf[i].o_c_id;
                    o_carrier_id = orders_buf[i].o_carrier_id;
                    o_ol_cnt     = orders_buf[i].o_ol_cnt;
                    o_all_local  = orders_buf[i].o_all_local;

                    FormatDate(&o_entry_d);

                    // send data to server
                    rc = bcp_sendrow(o_hdbc1);
                    if (rc != SUCCEED)
                              HandleErrorDBC(o_hdbc1);

                    orders_rows_loaded++;
                    CheckForCommit(o_hdbc1, o_hstmt1, orders_rows_loaded, "orders",
&orders_time_start->time_start);
    }

          if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
          {
                    rcint = bcp_done(o_hdbc1);
                    if (rcint < 0)
                              HandleErrorDBC(o_hdbc1);

                    SQLFreeStmt(o_hstmt1, SQL_DROP);
                    SQLDisconnect(o_hdbc1);
                    SQLFreeConnect(o_hdbc1);

                    // if build index after load...
                    if ((aptr->build_index == 1) && (aptr->index_order == 0))
                              BuildIndex("idxordcl");

                    // build non-clustered index
                    if (aptr->build_index == 1)
                              BuildIndex("idxordnc");
          }
}

//========================================================================
//
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
// Function   : LoadNewOrderTable
//
//============================================================================
void LoadNewOrderTable(LOADER_TIME_STRUCT *new_order_time_start)
{
          long               i;
    long        o_id;
    short       o_d_id;
          long               o_w_id;
          RETCODE            rc;
          DBINT              rcint;

          // Bind NEW-ORDER data
          i = 0;
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc2);
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc2);
          rc = bcp_bind(o_hdbc2, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc2);

          for (i = first_new_order; i < last_new_order; i++)
          {
                    o_id    = orders_buf[i].o_id;
                    o_d_id  = orders_buf[i].o_d_id;
                    o_w_id  = orders_buf[i].o_w_id;

                    rc = bcp_sendrow(o_hdbc2);
                    if (rc != SUCCEED)
                              HandleErrorDBC(o_hdbc2);

                    new_order_rows_loaded++;
                    CheckForCommit_Big(o_hdbc2, o_hstmt2, new_order_rows_loaded,
"new_order", &new_order_time_start->time_start);
          }

          if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
          {
                    rcint = bcp_done(o_hdbc2);
                    if (rcint < 0)
                              HandleErrorDBC(o_hdbc2);

                    SQLFreeStmt(o_hstmt2, SQL_DROP);
                    SQLDisconnect(o_hdbc2);
                    SQLFreeConnect(o_hdbc2);

                    // if build index after load...
                    if ((aptr->build_index == 1) && (aptr->index_order == 0))
                              BuildIndex("idxnodcl");
          }
}

//============================================================================
//
// Function   : LoadOrderLineTable
//
//============================================================================
```

```
void LoadOrderLineTable(LOADER_TIME_STRUCT *order_line_time_start)
{
          long               i;
          long               j;
    long        o_id;
          short     o_d_id;
          long               o_w_id;
          double             ol;
          long      ol_i_id;
          long               ol_supply_w_id;
    short       ol_quantity;
    double      ol_amount;
    char        ol_dist_info[DIST_INFO_LEN+1];
          char               ol_delivery_d[OL_DELIVERY_D_LEN+1];
          RETCODE            rc;
          DBINT              rcint;

          // bind ORDER-LINE data
          i = 0;
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);
          rc = bcp_bind(o_hdbc3, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);
          rc = bcp_bind(o_hdbc3, (BYTE *) &ol, 0, SQL_VARLEN_DATA, NULL, 0, SQLFLT8,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_i_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);
          rc = bcp_bind(o_hdbc3, (BYTE *) &ol_delivery_d, 0, OL_DELIVERY_D_LEN,
NULL, 0, SQLCHARACTER, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_amount, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);
          rc = bcp_bind(o_hdbc3, (BYTE *) &ol_supply_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_quantity, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) ol_dist_info, 0, DIST_INFO_LEN, NULL, 0, 0,
++i);
          if (rc != SUCCEED)
                    HandleErrorDBC(o_hdbc3);

          for (i = 0; i < orders_per_district; i++)
    {
                    o_id    = orders_buf[i].o_id;
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                o_d_id  = orders_buf[i].o_d_id;
                o_w_id  = orders_buf[i].o_w_id;

                for (j=0; j < orders_buf[i].o_ol_cnt; j++)
                {
                        ol             = orders_buf[i].o_ol[j].ol;
                        ol_i_id        = orders_buf[i].o_ol[j].ol_i_id;
                        ol_supply_w_id = orders_buf[i].o_ol[j].ol_supply_w_id;
                        ol_quantity    = orders_buf[i].o_ol[j].ol_quantity;
                        ol_amount      = orders_buf[i].o_ol[j].ol_amount;


        strcpy(ol_delivery_d,orders_buf[i].o_ol[j].ol_delivery_d);


        strcpy(ol_dist_info,orders_buf[i].o_ol[j].ol_dist_info);

                        rc = bcp_sendrow(o_hdbc3);
                        if (rc != SUCCEED)
                                HandleErrorDBC(o_hdbc3);

                        order_line_rows_loaded++;

                        CheckForCommit_Big(o_hdbc3, o_hstmt3,
order_line_rows_loaded, "order_line", &order_line_time_start->time_start);
                }
        }

        if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
        {
                rcint = bcp_done(o_hdbc3);
                if (rcint < 0)
                        HandleErrorDBC(o_hdbc3);

                SQLFreeStmt(o_hstmt3, SQL_DROP);
                SQLDisconnect(o_hdbc3);
                SQLFreeConnect(o_hdbc3);

                // if build index after load...
                if ((aptr->build_index == 1) && (aptr->index_order == 0))
                        BuildIndex("idxodlcl");
        }
}

//==============================================================================
//
// Function   : GetPermutation
//
//==============================================================================
void GetPermutation(int perm[], int n)
{
        int i, r, t;

        for (i=1;i<=n;i++)
                perm[i] = i;

        for (i=1;i<=n;i++)
        {
                r = RandomNumber(i,n);
                t = perm[i];
                perm[i] = perm[r];
                perm[r] = t;
        }
}

//==============================================================================
//
// Function   : CheckForCommit
//
//==============================================================================
void CheckForCommit(HDBC hdbc,
                                                HSTMT hstmt,
                                                long rows_loaded,
                                                char *table_name,
                                        long *time_start)
{

    long  time_end, time_diff;

    if ( !(rows_loaded % aptr->batch) )
    {
                time_end = (TimeNow() / MILLI);
                time_diff = time_end - *time_start;

                printf("-> Loaded %ld rows into %s in %ld sec - Total = %d (%.2f
rps)\n",
                        aptr->batch,
                        table_name,
                                time_diff,
                        rows_loaded,
                                (float) aptr->batch / (time_diff ? time_diff
: 1L));

                *time_start = time_end;
    }

    return;
}

//==============================================================================
//
// Function   : CheckForCommit_Big
//
//==============================================================================
void CheckForCommit_Big(HDBC hdbc,
                                                HSTMT hstmt,
                                                double rows_loaded,
                                                char *table_name,
                                        long *time_start)
{

    long  time_end, time_diff;

    if ( !(fmod(rows_loaded,aptr->batch) ) )
    {
                time_end = (TimeNow() / MILLI);
                time_diff = time_end - *time_start;

                printf("-> Loaded %ld rows into %s in %ld sec - Total = %.0f
(%.2f rps)\n",
                        aptr->batch,
                        table_name,
                                time_diff,
                        rows_loaded,
                                (float) aptr->batch / (time_diff ? time_diff
: 1L));
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    *time_start = time_end;
    }

    return;
}

//==============================================================================
//
// Function   : OpenConnections
//
//==============================================================================
void OpenConnections()
{

          RETCODE         rc;

          char                          szDriverString[300];
          char                          szDriverStringOut[1024];
          SQLSMALLINT                   cbDriverStringOut;


          SQLAllocHandle(SQL_HANDLE_ENV, SQL_NULL_HANDLE, &henv );

          SQLSetEnvAttr(henv, SQL_ATTR_ODBC_VERSION, (void*)SQL_OV_ODBC3, 0 );

          SQLAllocHandle(SQL_HANDLE_DBC, henv , &i_hdbc1);
          SQLAllocHandle(SQL_HANDLE_DBC, henv , &w_hdbc1);
          SQLAllocHandle(SQL_HANDLE_DBC, henv , &c_hdbc1);
          SQLAllocHandle(SQL_HANDLE_DBC, henv , &c_hdbc2);
          SQLAllocHandle(SQL_HANDLE_DBC, henv , &o_hdbc1);
          SQLAllocHandle(SQL_HANDLE_DBC, henv , &o_hdbc2);
          SQLAllocHandle(SQL_HANDLE_DBC, henv , &o_hdbc3);

          SQLSetConnectAttr(i_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
          SQLSetConnectAttr(w_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
          SQLSetConnectAttr(c_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
          SQLSetConnectAttr(c_hdbc2, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
          SQLSetConnectAttr(o_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
          SQLSetConnectAttr(o_hdbc2, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
          SQLSetConnectAttr(o_hdbc3, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );

          // Open connections to SQL Server
          // Connection 1
          sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                                              aptr->server,
                                                              aptr->user,
                                                              aptr->password,
                                                              aptr->database );

          rc = SQLSetConnectOption (i_hdbc1, SQL_PACKET_SIZE, aptr->pack_size);
          if (rc != SUCCEED)
                    HandleErrorDBC(i_hdbc1);

          rc = SQLDriverConnect ( i_hdbc1,
                                                                NULL,
          (SQLCHAR*)&szDriverString[0] ,
                                                                SQL_NTS,
          (SQLCHAR*)&szDriverStringOut[0],
          sizeof(szDriverStringOut),
                                                                &cbDriverStringOut,
                                                                SQL_DRIVER_NOPROMPT );
          if ( (rc != SUCCEED) &&
                    (rc != SQL_SUCCESS_WITH_INFO) )
          {
                    HandleErrorDBC(i_hdbc1);
                    printf("TPC-C Loader aborted!\n");
                    exit(9);
          }

          // Connection 2
          sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                                                aptr->server,
                                                                aptr->user,
                                                                aptr->password,
                                                                aptr->database );

          rc = SQLSetConnectOption (w_hdbc1, SQL_PACKET_SIZE, aptr->pack_size);

          if (rc != SUCCEED)
                    HandleErrorDBC(w_hdbc1);

          rc = SQLDriverConnect ( w_hdbc1,
                                                                NULL,
          (SQLCHAR*)&szDriverString[0] ,
                                                                SQL_NTS,
          (SQLCHAR*)&szDriverStringOut[0],
          sizeof(szDriverStringOut),
          &cbDriverStringOut,
          SQL_DRIVER_NOPROMPT );
          if ( (rc != SUCCEED) &&
                    (rc != SQL_SUCCESS_WITH_INFO) )
          {
                    HandleErrorDBC(w_hdbc1);
                    printf("TPC-C Loader aborted!\n");
                    exit(9);
          }

          // Connection 3
          sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                                                aptr->server,
                                                                aptr->user,
                                                                aptr->password,
                                                                aptr->database );

          rc = SQLSetConnectOption (c_hdbc1, SQL_PACKET_SIZE, aptr->pack_size);
          if (rc != SUCCEED)
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                HandleErrorDBC(c_hdbc1);

        rc = SQLDriverConnect ( c_hdbc1,
                                                                NULL,

        (SQLCHAR*)&szDriverString[0] ,
                                                                SQL_NTS,

        (SQLCHAR*)&szDriverStringOut[0],

        sizeof(szDriverStringOut),

        &cbDriverStringOut,

        SQL_DRIVER_NOPROMPT );
        if ( (rc != SUCCEED) &&
                  (rc != SQL_SUCCESS_WITH_INFO) )
        {
                HandleErrorDBC(c_hdbc1);
                printf("TPC-C Loader aborted!\n");
                exit(9);
        }

        // Connection 4
        sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                                        aptr->server,
                                                        aptr->user,
                                                        aptr->password,
                                                        aptr->database );

        rc = SQLSetConnectOption (c_hdbc2, SQL_PACKET_SIZE, aptr->pack_size);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);

        rc = SQLDriverConnect ( c_hdbc2,
                                                                NULL,

        (SQLCHAR*)&szDriverString[0] ,
                                                                SQL_NTS,

        (SQLCHAR*)&szDriverStringOut[0],

        sizeof(szDriverStringOut),

        &cbDriverStringOut,

        SQL_DRIVER_NOPROMPT );
        if ( (rc != SUCCEED) &&
                  (rc != SQL_SUCCESS_WITH_INFO) )
        {
                HandleErrorDBC(c_hdbc2);
                printf("TPC-C Loader aborted!\n");
                exit(9);
        }

        // Connection 5
        sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                                        aptr->server,
                                                        aptr->user,
                                                        aptr->password,
                                                        aptr->database );
```

```
        rc = SQLSetConnectOption (o_hdbc1, SQL_PACKET_SIZE, aptr->pack_size);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);

        rc = SQLDriverConnect ( o_hdbc1,
                                                                NULL,

        (SQLCHAR*)&szDriverString[0] ,
                                                                SQL_NTS,

        (SQLCHAR*)&szDriverStringOut[0],

        sizeof(szDriverStringOut),

        &cbDriverStringOut,

        SQL_DRIVER_NOPROMPT );
        if ( (rc != SUCCEED) &&
                  (rc != SQL_SUCCESS_WITH_INFO) )
        {
                HandleErrorDBC(o_hdbc1);
                printf("TPC-C Loader aborted!\n");
                exit(9);
        }

        // Connection 6
        sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                                        aptr->server,
                                                        aptr->user,
                                                        aptr->password,
                                                        aptr->database );

        rc = SQLSetConnectOption (o_hdbc2, SQL_PACKET_SIZE, aptr->pack_size);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc2);

        rc = SQLDriverConnect ( o_hdbc2,
                                                                NULL,

        (SQLCHAR*)&szDriverString[0] ,
                                                                SQL_NTS,

        (SQLCHAR*)&szDriverStringOut[0],

        sizeof(szDriverStringOut),

        &cbDriverStringOut,

        SQL_DRIVER_NOPROMPT );
        if ( (rc != SUCCEED) &&
                  (rc != SQL_SUCCESS_WITH_INFO) )
        {
                HandleErrorDBC(o_hdbc2);
                printf("TPC-C Loader aborted!\n");
                exit(9);
        }

        // Connection 7
        sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                                        aptr->server,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                                        aptr->user,
                                                        aptr->password,
                                                        aptr->database );

        rc = SQLSetConnectOption (o_hdbc3, SQL_PACKET_SIZE, aptr->pack_size);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc3);

        rc = SQLDriverConnect ( o_hdbc3,
                                                                NULL,

        (SQLCHAR*)&szDriverString[0] ,
                                                                SQL_NTS,

        (SQLCHAR*)&szDriverStringOut[0],

        sizeof(szDriverStringOut),

        &cbDriverStringOut,

        SQL_DRIVER_NOPROMPT );
        if ( (rc != SUCCEED) &&
             (rc != SQL_SUCCESS_WITH_INFO) )
        {
                HandleErrorDBC(o_hdbc3);
                printf("TPC-C Loader aborted!\n");
                exit(9);
        }
}

//================================================================
//
// Function name: BuildIndex
//
//================================================================
void BuildIndex(char          *index_script)
{
        char      cmd[256];

        printf("Starting index creation:  %s\n",index_script);

        sprintf(cmd, "osql -S%s -U%s -P%s -e -i%s\\%s.sql > %s%s.log",
                                        aptr->server,
                                        aptr->user,
                                        aptr->password,
                                        aptr->index_script_path,
                                        index_script,
                                        aptr->log_path,
                                        index_script);

        system(cmd);

        printf("Finished index creation:  %s\n",index_script);
}

//================================================================
//
// Function name: HandleErrorDBC
//
//================================================================
void HandleErrorDBC (SQLHDBC  hdbc1)
{
        SQLCHAR             SqlState[6], Msg[SQL_MAX_MESSAGE_LENGTH];
        SQLLEN              NativeError;
        SQLSMALLINT i, MsgLen;
        SQLRETURN   rc2;
        char                timebuf[128];
        char                datebuf[128];
        char                err_log_path[256];
        FILE                *fp1;

        i = 1;
        while (( rc2 = SQLGetDiagRec(SQL_HANDLE_DBC , hdbc1, i, SqlState ,
&NativeError,
                                        Msg, sizeof(Msg) , &MsgLen )) !=
SQL_NO_DATA )
        {
                sprintf( szLastError , "%s" ,  Msg );

                _strtime(timebuf);
                _strdate(datebuf);

                printf( "[%s : %s] %s\n==>SQLState: %s\n" , datebuf, timebuf,
szLastError, SqlState);

                strcpy(err_log_path,aptr->log_path);
                strcat(err_log_path,"tpccldr.err");
                fp1 = fopen(err_log_path,"a+");
                if (fp1 == NULL)
                        printf("ERROR:  Unable to open errorlog file.\n");
                else
                {
                        fprintf(fp1, "[%s : %s] %s\nSQLState: %s\n" , datebuf,
timebuf, szLastError, SqlState);
                        fclose(fp1);
                }

                i++;
        }
}

//================================================================
//
// Function   : HandleErrorSTMT
//
//================================================================
void HandleErrorSTMT (HSTMT  hstmt1)
{
        SQLCHAR             SqlState[6], Msg[SQL_MAX_MESSAGE_LENGTH];
        SQLLEN              NativeError;
        SQLSMALLINT i, MsgLen;
        SQLRETURN   rc2;
        char                timebuf[128];
        char                datebuf[128];
        char                err_log_path[256];
        FILE                *fp1;

        i = 1;
        while (( rc2 = SQLGetDiagRec(SQL_HANDLE_STMT , hstmt1, i, SqlState ,
&NativeError,
                                        Msg, sizeof(Msg) , &MsgLen )) !=
SQL_NO_DATA )
        {
                if (total_db_errors >= MAX_SQL_ERRORS)
                {
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                        printf(">>>>> Maximum SQL errors of %d exceeded.
Terminating TPCCLDR.<<<<<\n",total_db_errors);
                        exit(9);
                }
                total_db_errors++;

                sprintf( szLastError , "%s" ,  Msg );

                _strtime(timebuf);
                _strdate(datebuf);

                printf( "[%s : %s] %s\nSQLState: %s\n" , datebuf, timebuf,
szLastError, SqlState);

                strcpy(err_log_path,aptr->log_path);
                strcat(err_log_path,"tpccldr.err");
                fp1 = fopen(err_log_path,"a+");
                if (fp1 == NULL)
                        printf("ERROR:  Unable to open errorlog file.\n");
                else
                {
                        fprintf(fp1, "[%s : %s] %s\nSQLState: %s\n" , datebuf,
timebuf, szLastError, SqlState);
                        fclose(fp1);
                }

                i++;
        }
}

//=========================================================================
//
// Function   : FormatDate
//
//=========================================================================
void FormatDate ( char* szTimeCOutput )
{
        struct tm when;
        time_t now;

        time( &now );
        when  = *localtime( &now );

        mktime( &when );

        // odbc datetime format
        strftime( szTimeCOutput , 30 , "%Y-%m-%d %H:%M:%S.000", &when );

        return;
}
```

VerifyTpccLoad.sql

```
-------------------------------------------------------------------
--                                                               --
--  File:   VerifyTPCCLoad.SQL                                   --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62              --
--          Copyright Microsoft, 2005                            --
--                                                               --
-------------------------------------------------------------------
SET NOCOUNT ON
PRINT   ' '

SELECT  CONVERT(CHAR(30), GETDATE(), 21)
PRINT   ' '

USE       tpcc
GO

IF  EXISTS  (SELECT name
             FROM   sysobjects
             WHERE  name    = 'TPCC_INFO' AND
                    type    = 'U')
    DROP TABLE TPCC_INFO
GO
PRINT   'WAREHOUSE TABLE'
SELECT  count_big(*)
FROM    warehouse
GO

PRINT   'DISTRICT TABLE = (10 * No of warehouses)'
SELECT  count_big(*)
FROM    district
GO

PRINT   'ITEM TABLE = 100,000'
SELECT  count_big(*)
FROM    item
GO

PRINT   'CUSTOMER TABLE = (30,000 * No of warehouses)'
SELECT  count_big(*)
FROM    customer
GO

PRINT   'ORDERS TABLE = (30,000 * No of warehouses)'
SELECT  count_big(*)
FROM    orders
GO

PRINT   'HISTORY TABLE = (30,000 * No of warehouses)'
SELECT  count_big(*)
FROM    history
GO

PRINT   'STOCK TABLE = (100,000 * No of warehouses)'
SELECT  count_big(*)
FROM    stock
GO

PRINT   'ORDER_LINE TABLE = (300,000 * No of warehouses + some change)'
SELECT  count_big(*)
FROM    order_line
GO

PRINT   'NEW_ORDER TABLE = (9000 * No of warehouses)'
SELECT  count_big(*)
FROM    new_order
GO

CREATE TABLE TPCC_INFO
    (   INFO_DATE                   datetime,
        NUM_WAREHOUSE               bigint,
        WAREHOUSE_TARGET            bigint,
        NUM_DISTRICT                bigint,
        DISTRICT_TARGET             bigint,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        NUM_ITEM                    bigint,
        ITEM_TARGET                 bigint,
        NUM_CUSTOMER                bigint,
        CUSTOMER_TARGET             bigint,
        NUM_ORDERS                  bigint,
        ORDERS_TARGET               bigint,
        ORDERS_TARGET_LOW           bigint,
        ORDERS_TARGET_HIGH          bigint,
        NUM_ORDER_LINE              bigint,
        ORDER_LINE_TARGET           bigint,
        ORDER_LINE_TARGET_LOW       bigint,
        ORDER_LINE_TARGET_HIGH      bigint,
        NUM_NEW_ORDER               bigint,
        NEW_ORDER_TARGET            bigint,
        NEW_ORDER_TARGET_LOW        bigint,
        NEW_ORDER_TARGET_HIGH       bigint,
        NUM_HISTORY                 bigint,
        HISTORY_TARGET              bigint,
        NUM_STOCK                   bigint,
        STOCK_TARGET                bigint)
GO

DECLARE @NUM_WAREHOUSE              bigint,
        @WAREHOUSE_TARGET           bigint,
        @NUM_DISTRICT               bigint,
        @DISTRICT_TARGET            bigint,
        @NUM_ITEM                   bigint,
        @ITEM_TARGET                bigint,
        @NUM_CUSTOMER               bigint,
        @CUSTOMER_TARGET            bigint,
        @NUM_ORDERS                 bigint,
        @ORDERS_TARGET              bigint,
        @ORDERS_TARGET_LOW          bigint,
        @ORDERS_TARGET_HIGH         bigint,
        @NUM_ORDER_LINE             bigint,
        @ORDER_LINE_TARGET          bigint,
        @ORDER_LINE_TARGET_LOW      bigint,
        @ORDER_LINE_TARGET_HIGH     bigint,
        @NUM_NEW_ORDER              bigint,
        @NEW_ORDER_TARGET           bigint,
        @NEW_ORDER_TARGET_LOW       bigint,
        @NEW_ORDER_TARGET_HIGH      bigint,
        @NUM_HISTORY                bigint,
        @HISTORY_TARGET             bigint,
        @NUM_STOCK                  bigint,
        @STOCK_TARGET               bigint

-- set the local variables prior to inserting them into the TPCC_INFO table
SELECT  @NUM_WAREHOUSE      = COUNT_BIG(*)
FROM    warehouse

SELECT  @NUM_DISTRICT       = COUNT_BIG(*)
FROM    district

SELECT  @NUM_ITEM           = COUNT_BIG(*)
FROM    item

SELECT  @NUM_CUSTOMER       = COUNT_BIG(*)
FROM    customer

SELECT  @NUM_ORDERS         = COUNT_BIG(*)
FROM    orders

SELECT  @NUM_ORDER_LINE     = COUNT_BIG(*)
FROM    order_line

SELECT  @NUM_NEW_ORDER      = COUNT_BIG(*)
FROM    new_order

SELECT  @NUM_HISTORY        = COUNT_BIG(*)
FROM    history

SELECT  @NUM_STOCK          = COUNT_BIG(*)
FROM    stock

--- now calculate and set the target values
SELECT  @WAREHOUSE_TARGET       = @NUM_WAREHOUSE,
        @DISTRICT_TARGET        = @NUM_WAREHOUSE * 10,
        @ITEM_TARGET            = 100000,
        @CUSTOMER_TARGET        = @NUM_WAREHOUSE * 30000,
        @ORDERS_TARGET          = @NUM_WAREHOUSE * 30000,
        @ORDERS_TARGET_LOW      = @ORDERS_TARGET - FLOOR(@ORDERS_TARGET * .01),
        @ORDERS_TARGET_HIGH     = @ORDERS_TARGET + FLOOR(@ORDERS_TARGET * .01),
        @ORDER_LINE_TARGET      = @NUM_WAREHOUSE * 300000,
        @ORDER_LINE_TARGET_LOW  = @ORDER_LINE_TARGET - FLOOR(@ORDER_LINE_TARGET *
.01),
        @ORDER_LINE_TARGET_HIGH = @ORDER_LINE_TARGET + FLOOR(@ORDER_LINE_TARGET *
.01),
        @NEW_ORDER_TARGET       = @NUM_WAREHOUSE * 9000,
        @NEW_ORDER_TARGET_LOW   = @NEW_ORDER_TARGET - FLOOR(@NEW_ORDER_TARGET *
.01),
        @NEW_ORDER_TARGET_HIGH  = @NEW_ORDER_TARGET + FLOOR(@NEW_ORDER_TARGET *
.01),
        @HISTORY_TARGET         = @NUM_WAREHOUSE * 30000,
        @STOCK_TARGET           = @NUM_WAREHOUSE * 100000

--- insert the values into TPCC_INFO
INSERT INTO TPCC_INFO VALUES    (GETDATE(),
                                 @NUM_WAREHOUSE,
                                 @WAREHOUSE_TARGET,
                                 @NUM_DISTRICT,
                                 @DISTRICT_TARGET,
                                 @NUM_ITEM,
                                 @ITEM_TARGET,
                                 @NUM_CUSTOMER,
                                 @CUSTOMER_TARGET,
                                 @NUM_ORDERS,
                                 @ORDERS_TARGET,
                                 @ORDERS_TARGET_LOW,
                                 @ORDERS_TARGET_HIGH,
                                 @NUM_ORDER_LINE,
                                 @ORDER_LINE_TARGET,
                                 @ORDER_LINE_TARGET_LOW,
                                 @ORDER_LINE_TARGET_HIGH,
                                 @NUM_NEW_ORDER,
                                 @NEW_ORDER_TARGET,
                                 @NEW_ORDER_TARGET_LOW,
                                 @NEW_ORDER_TARGET_HIGH,
                                 @NUM_HISTORY,
                                 @HISTORY_TARGET,
                                 @NUM_STOCK,
                                 @STOCK_TARGET)
GO

--- output the row counts from the build
PRINT   ''
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
PRINT   ''
PRINT   '---------------------------'
PRINT   '|    WAREHOUSE TABLE      |'
PRINT   '---------------------------'
SELECT  TOP 1
        CONVERT(CHAR(30),INFO_DATE,21)  AS  'Date',
        NUM_WAREHOUSE                   AS  'Warehouse Rows',
        WAREHOUSE_TARGET                AS        'Warehouse Target',
        CASE WHEN (NUM_WAREHOUSE = WAREHOUSE_TARGET)
             THEN 'OK!'
             ELSE 'ERROR!!!'
        END                             AS  'Warehouse Message'
FROM    TPCC_INFO
GO

PRINT   ''
PRINT   ''
PRINT   '---------------------------'
PRINT   '|    DISTRICT TABLE       |'
PRINT   '---------------------------'
SELECT  TOP 1
        CONVERT(CHAR(30),INFO_DATE,21)  AS  'Date',
        NUM_DISTRICT                    AS  'District Rows',
        DISTRICT_TARGET                 AS        'District Target',
        CASE WHEN (NUM_DISTRICT = DISTRICT_TARGET)
             THEN 'OK!'
             ELSE 'ERROR!!!'
        END                             AS  'District Message'
FROM    TPCC_INFO
GO

PRINT   ''
PRINT   ''
PRINT   '---------------------------'
PRINT   '|      ITEM TABLE         |'
PRINT   '---------------------------'
SELECT  TOP 1
        CONVERT(CHAR(30),INFO_DATE,21)  AS  'Date',
        NUM_ITEM                        AS  'Item Rows',
        ITEM_TARGET                     AS        'Item Target',
        CASE WHEN (NUM_ITEM = ITEM_TARGET)
             THEN 'OK!'
             ELSE 'ERROR!!!'
        END                             AS  'Item Message'
FROM    TPCC_INFO
GO

PRINT   ''
PRINT   ''
PRINT   '---------------------------'
PRINT   '|    CUSTOMER TABLE       |'
PRINT   '---------------------------'
SELECT  TOP 1
        CONVERT(CHAR(30),INFO_DATE,21)  AS  'Date',
        NUM_CUSTOMER                    AS  'Customer Rows',
        CUSTOMER_TARGET                 AS        'Customer Target',
        CASE WHEN (NUM_CUSTOMER = CUSTOMER_TARGET)
             THEN 'OK!'
             ELSE 'ERROR!!!'
        END                             AS  'Customer Message'
FROM    TPCC_INFO
GO
```

```
PRINT   ''
PRINT   ''
PRINT   '---------------------------'
PRINT   '|     ORDERS TABLE        |'
PRINT   '---------------------------'
SELECT  TOP 1
        CONVERT(CHAR(30),INFO_DATE,21)  AS  'Date',
        NUM_ORDERS                      AS  'Orders Rows',
        ORDERS_TARGET                   AS        'Orders Target',
        CASE WHEN (NUM_ORDERS = ORDERS_TARGET)
             THEN 'OK!'
             WHEN (NUM_ORDERS BETWEEN ORDERS_TARGET_LOW AND ORDERS_TARGET_HIGH)
             THEN 'OK! (within 1%)'
             ELSE 'ERROR!!!'
        END                             AS  'Orders Message'
FROM    TPCC_INFO
GO

PRINT   ''
PRINT   ''
PRINT   '---------------------------'
PRINT   '|   ORDER LINE TABLE      |'
PRINT   '---------------------------'
SELECT  TOP 1
        CONVERT(CHAR(30),INFO_DATE,21)  AS  'Date',
        NUM_ORDER_LINE                  AS  'Order Line Rows',
        ORDER_LINE_TARGET               AS        'Order Line Target',
        CASE WHEN (NUM_ORDER_LINE = ORDER_LINE_TARGET)
             THEN 'OK!'
             WHEN (NUM_ORDER_LINE BETWEEN ORDER_LINE_TARGET_LOW AND
ORDER_LINE_TARGET_HIGH)
             THEN 'OK! (within 1%)'
             ELSE 'ERROR!!!'
        END                             AS  'Orders Message'
FROM    TPCC_INFO
GO

PRINT   ''
PRINT   ''
PRINT   '---------------------------'
PRINT   '|    NEW ORDER TABLE      |'
PRINT   '---------------------------'
SELECT  TOP 1
        CONVERT(CHAR(30),INFO_DATE,21)  AS  'Date',
        NUM_NEW_ORDER                   AS  'New Order Rows',
        NEW_ORDER_TARGET                AS        'New Order Target',
        CASE WHEN (NUM_NEW_ORDER = NEW_ORDER_TARGET)
             THEN 'OK!'
             WHEN (NUM_NEW_ORDER BETWEEN NEW_ORDER_TARGET_LOW AND
NEW_ORDER_TARGET_HIGH)
             THEN 'OK! (within 1%)'
             ELSE 'ERROR!!!'
        END                             AS  'New Order Message'
FROM    TPCC_INFO
GO

PRINT   ''
PRINT   ''
PRINT   '---------------------------'
PRINT   '|     HISTORY TABLE       |'
PRINT   '---------------------------'
SELECT  TOP 1
        CONVERT(CHAR(30),INFO_DATE,21)  AS  'Date',
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        NUM_HISTORY                     AS  'History Rows',
        HISTORY_TARGET                  AS        'History Target',
        CASE WHEN (NUM_HISTORY = HISTORY_TARGET)
             THEN 'OK!'
             ELSE 'ERROR!!!'
        END                             AS  'New Order Message'
FROM    TPCC_INFO
GO

PRINT   ''
PRINT   ''
PRINT   '---------------------------'
PRINT   '|      STOCK TABLE        |'
PRINT   '---------------------------'
SELECT  TOP 1
        CONVERT(CHAR(30),INFO_DATE,21)  AS  'Date',
        NUM_STOCK                       AS  'Stock Rows',
        STOCK_TARGET                    AS        'Stock Target',
        CASE WHEN (NUM_STOCK = STOCK_TARGET)
             THEN 'OK!'
             ELSE 'ERROR!!!'
        END                             AS  'Stock Message'
FROM    TPCC_INFO
GO

------------------
-- Check Indexes
------------------
USE tpcc
GO

PRINT   ''
PRINT   ''
PRINT   '-----------------------------'
PRINT   '|      TPC-C INDEXES       |'
PRINT   '-----------------------------'
EXEC    sp_helpindex    warehouse
EXEC    sp_helpindex    district
EXEC    sp_helpindex    item
EXEC    sp_helpindex    customer
EXEC    sp_helpindex    orders
EXEC    sp_helpindex    order_line
EXEC    sp_helpindex    new_order
EXEC    sp_helpindex    history
EXEC    sp_helpindex    stock
GO
```

version.sql

```
-----------------------------------------------------------------------
--                                                                   --
--  File:   VERSION.SQL                                              --
--          Microsoft TPC-C Benchmark Kit Ver. 4.62                  --
--          Copyright Microsoft, 2005                                --
--                                                                   --
--          Extracts current version of SQL Server                   --
--                                                                   --
-----------------------------------------------------------------------
USE master
GO

SELECT  CONVERT(char(20), SERVERPROPERTY('ProductVersion')),
        CONVERT(char(20), SERVERPROPERTY('ProductLevel')),
        CONVERT(char(29), SERVERPROPERTY('Edition'))
GO

SELECT  CONVERT(char(30), GETDATE(), 21)
GO
```

Neworder_new.sql

```
SET QUOTED_IDENTIFIER OFF
GO
SET ANSI_NULLS OFF
GO
-- 8666: full showplan text info (to see if rowset sharing)
dbcc traceon(8666)
go
-- prevent sort over tvf
dbcc traceon(8710)
go

use tpcc
go

drop procedure tpcc_neworder_new
go
-- neworder_new v2.5 6/23/05 PeterCa
-- 1q stock/order_line/client.  upd district & ins neworder.
--  cust/warehouse select together, ins order separate
--  uses rownumber to distinct w any transform
--  uses in-memory sort for distinct on iid,wid
--  uses charindex
-- will rollback if (@i_idX,@s_w_idX pairs not unique) OR (@i_idX not unique).
create proc tpcc_neworder_new
          @w_id           int,
          @d_id           tinyint,
          @c_id           int,
          @o_ol_cnt       tinyint,
          @o_all_local    tinyint,
          @i_id1  int = 0, @s_w_id1  int = 0, @ol_qty1  smallint = 0,
          @i_id2  int = 0, @s_w_id2  int = 0, @ol_qty2  smallint = 0,
          @i_id3  int = 0, @s_w_id3  int = 0, @ol_qty3  smallint = 0,
          @i_id4  int = 0, @s_w_id4  int = 0, @ol_qty4  smallint = 0,
          @i_id5  int = 0, @s_w_id5  int = 0, @ol_qty5  smallint = 0,
          @i_id6  int = 0, @s_w_id6  int = 0, @ol_qty6  smallint = 0,
          @i_id7  int = 0, @s_w_id7  int = 0, @ol_qty7  smallint = 0,
          @i_id8  int = 0, @s_w_id8  int = 0, @ol_qty8  smallint = 0,
          @i_id9  int = 0, @s_w_id9  int = 0, @ol_qty9  smallint = 0,
          @i_id10 int = 0, @s_w_id10 int = 0, @ol_qty10 smallint = 0,
          @i_id11 int = 0, @s_w_id11 int = 0, @ol_qty11 smallint = 0,
          @i_id12 int = 0, @s_w_id12 int = 0, @ol_qty12 smallint = 0,
          @i_id13 int = 0, @s_w_id13 int = 0, @ol_qty13 smallint = 0,
          @i_id14 int = 0, @s_w_id14 int = 0, @ol_qty14 smallint = 0,
          @i_id15 int = 0, @s_w_id15 int = 0, @ol_qty15 smallint = 0


as
begin
declare   @o_id              int,
        @d_tax          smallmoney,
        @o_entry_d      datetime,
          @commit_flag    tinyint
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
begin transaction n

--  get district tax and next availible order id and update
--  insert corresponding row into new-order table
--  plus initialize local variables

          update    district
          set       @d_tax       = d_tax,
                    @o_id        = d_next_o_id,
                    d_next_o_id  = d_next_o_id + 1,
                    @o_entry_d   = getdate(),
                    @commit_flag = 1
          output deleted.d_next_o_id,@d_id,@w_id into new_order
          where     d_w_id       = @w_id and
                    d_id         = @d_id

-- update stock from stock join (item join (params))
-- output to orderline, output to client
-- NOTE: @@rowcount != @ol_o_cnt
--        if (@i_idX,@s_w_idX pairs not unique) OR (@i_idX not unique).
update stock
          set       s_ytd               = s_ytd + info.ol_qty,
                    s_quantity   = s_quantity - info.ol_qty +
                              case when (s_quantity - info.ol_qty < 10) then 91 else
0 end,
                    s_order_cnt         = s_order_cnt + 1,
                    s_remote_cnt        = s_remote_cnt +
                              case when (info.w_id = @w_id) then 0 else 1 end

output @o_id,@d_id,@w_id,info.lino,
          info.i_id,"dec 31, 1899",
          info.i_price * info.ol_qty,
          info.w_id,info.ol_qty,
    case @d_id when 1  then inserted.s_dist_01
                      when 2  then inserted.s_dist_02
                      when 3  then inserted.s_dist_03
                      when 4  then inserted.s_dist_04
                      when 5  then inserted.s_dist_05
                      when 6  then inserted.s_dist_06
                      when 7  then inserted.s_dist_07
                      when 8  then inserted.s_dist_08
                      when 9  then inserted.s_dist_09
                      when 10 then inserted.s_dist_10
   end
into order_line

output info.i_name,inserted.s_quantity,
                    case when ((charindex("ORIGINAL",info.i_data) > 0) and
                                        (charindex("ORIGINAL",inserted.s_data) > 0)
)
                         then "B" else "G" end,
          info.i_price,info.i_price*info.ol_qty

from
stock inner join

(select iid,wid,
          lino,ol_qty,
          i_price,
          i_name,
          i_data
from
          (select iid,wid,lino,qty,
                    row_number() over (partition by iid,wid order by iid,wid) from
                    (select @i_id1,@s_w_id1,1,@ol_qty1 union all
                    select @i_id2,@s_w_id2,2,@ol_qty2 union all
                    select @i_id3,@s_w_id3,3,@ol_qty3 union all
                    select @i_id4,@s_w_id4,4,@ol_qty4 union all
                    select @i_id5,@s_w_id5,5,@ol_qty5 union all
                    select @i_id6,@s_w_id6,6,@ol_qty6 union all
                    select @i_id7,@s_w_id7,7,@ol_qty7 union all
                    select @i_id8,@s_w_id8,8,@ol_qty8 union all
                    select @i_id9,@s_w_id9,9,@ol_qty9 union all
                    select @i_id10,@s_w_id10,10,@ol_qty10 union all
                    select @i_id11,@s_w_id11,11,@ol_qty11 union all
                    select @i_id12,@s_w_id12,12,@ol_qty12 union all
                    select @i_id13,@s_w_id13,13,@ol_qty13 union all
                    select @i_id14,@s_w_id14,14,@ol_qty14 union all
                    select @i_id15,@s_w_id15,15,@ol_qty15) as uo1(iid,wid,lino,qty)
          ) as o1(iid,wid,lino,ol_qty,rownum)
inner join
          item (repeatableread) on i_id = iid  -- filters out invalid items
          and rownum=1
) as info(i_id,w_id,lino,ol_qty,i_price,i_name,i_data)

on        s_i_id              = info.i_id and
          s_w_id              = info.w_id


if (@@rowcount <> @o_ol_cnt)  -- must have an invalid item
          select @commit_flag = 0  -- 2.4.2.3 requires rest to proceed

--  insert fresh row into orders table
          insert into orders values (   @o_id,
                                                @d_id,
                                                @w_id,
                                                @c_id,
                                                0,
                                                @o_ol_cnt,
                                                @o_all_local,
                                                @o_entry_d)

--  get customer last name, discount, and credit rating
--  get warehouse tax
-- return order_data to client

                    select w_tax,@d_tax,@o_id,
                              c_last,c_discount,c_credit,
                              @o_entry_d,@commit_flag
                    from
                    warehouse(repeatableread),customer(repeatableread)
                    where     w_id      = @w_id and
                              c_id                = @c_id and
                              c_w_id              = @w_id and
                              c_d_id              = @d_id

          -- @@rowcount checks that previous select found a valid customer
          if ((@commit_flag = 1) and (@@rowcount = 1))
                    commit transaction n
          else    -- all that work for nothing.
                    rollback transaction n

end
go
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
set showplan_text on
go
{call tpcc_neworder_new(1,1,1,10,1,
1,1,1,2,1,1,3,1,1,4,1,1,5,1,1,6,1,1,7,1,1,8,1,1,9,1,1,10,1,1)}
go
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

Appendix C: Tunable Parameters

Microsoft SQL Server 2000 Startup Parameters

```
start sqlservr.exe -c -x -T3502 -T677 -T8011 -T8012 -
T8018 -T8019 -T661 -T8710

Where:
-c        Start SQL Server independently of the
Windows NT Service Control Manager
-x        Disables the keeping of CPU time and cache-
hit ratio statistics
-T3502-Prints a message to the SQL Server log at the
start and end of each checkpoint
-T8011-Disable diagnostics for resource monitor
-T8012-Disable ring buffer for scheduler
-T8018-Disable exceptions rung buffer
-T8019-Disable stack collection for exception ring
buffer
-T661-Disable ghost writer
-T677-Disable AM debug info
-T8710-Disable HP checks.
File locations:
sqlserver.exe- C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\Binn
ERRORLOG-C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\LOG
```

Boot.ini Parameters

```
[boot loader]
timeout=30
default=multi(0)disk(0)rdisk(0)partition(1)\WINDOWS
[operating systems]
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows
Server 2003, Enterprise" /fastdetect /PAE
/NoExecute=OptOut
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows
Server 2003, Enterprise" /fastdetect
/NoExecute=OptOut
```

Microsoft SQL Server 2000 Configuration Parameters

```
1> 2>  name
          minimum     maximum     config_value
run_value
 ----------------------------------------------------
------------------
          ----------- ----------- ------------ ------
-----
 affinity mask
          -2147483648  2147483647           15
15
 allow updates
                    0           1            0
0
 awe enabled
                    0           1            1
1
 c2 audit mode
                    0           1            0
0
 cost threshold for parallelism
                    0       32767            5
5
 Cross DB Ownership Chaining
                    0           1            0
0
 cursor threshold
                   -1  2147483647           -1
-1
 default full-text language
                    0  2147483647         1033
1033
 default language
                    0        9999            0
0
 fill factor (%)
                    0         100            0
0
 index create memory (KB)
                  704  2147483647          704
704
 lightweight pooling
                    0           1            1
1
 locks
                 5000  2147483647            0
0
 max degree of parallelism
                    0          32            1
1
 max server memory (MB)
                    4  2147483647   2147483647
2147483647
 max text repl size (B)
                    0  2147483647        65536
65536
 max worker threads
                   32       32767          450
450
 media retention
                    0         365            0
0
 min memory per query (KB)
                  512  2147483647          512
512
 min server memory (MB)
                    0  2147483647            0
0
 nested triggers
                    0           1            1
1
 network packet size (B)
                  512       65536         4096
4096
 open objects
                    0  2147483647            0
0
 priority boost
                    0           1            1
1
 query governor cost limit
                    0  2147483647            0
0
 query wait (s)
                   -1  2147483647           -1
-1
 recovery interval (min)
                    0       32767           80
80
 remote access
                    0           1            1
1
 remote login timeout (s)
                    0  2147483647           20
20
 remote proc trans
                    0           1            0
0
 remote query timeout (s)
                    0  2147483647          600
600
 scan for startup procs
                    0           1            0
0
 set working set size
                    0           1            0
0
 show advanced options
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    0           1           1
1
 two digit year cutoff
                 1753        9999        2049
2049
 user connections
                    0       32767           0
0
 user options
                    0       32767           0
0

1> 2> 3>
```

Benchcraft Profile

```
Profile:  FQ_8760
File Path:          C:\David_rte\FQ_8760.xml
Version:  5

          Number of Engines: 8

                    Name: RTE1
                    Description:
                    Directory: c:\blog\rte1.log
                    Machine: n19
                    Parameter Set: FullSpeed
                    Index: 800000000
                    Seed: 4678
                    Configured Users: 10950
                    Pipe Name: DRIVER44265281
                    Connect Rate: 100000
                    Start Rate: 100000
                    Max. Concurrency: 10950
                    Concurrency Rate: 0
                    CLIENT_NURAND: 25
                    CPU: 0
                    Additional Options:

                    Name: RTE3
                    Description:
                    Directory: c:\blog\rte3.log
                    Machine: n23
                    Parameter Set: FullSpeed
                    Index: 200000000
                    Seed: 4678
                    Configured Users: 10950
                    Pipe Name: DRIVER3439676359
                    Connect Rate: 100000
                    Start Rate: 100000
                    Max. Concurrency: 10950
                    Concurrency Rate: 0
                    CLIENT_NURAND: 25
                    CPU: 0
                    Additional Options:

                    Name: RTE4
                    Description:
                    Directory: c:\blog\rte4.log
                    Machine: n23
                    Parameter Set: FullSpeed
                    Index: 300000000
                    Seed: 4678
                    Configured Users: 10950
                    Pipe Name: DRIVER4439706187
                    Connect Rate: 100000
                    Start Rate: 100000
                    Max. Concurrency: 10950
                    Concurrency Rate: 0
                    CLIENT_NURAND: 25
                    CPU: 1
                    Additional Options:

                    Name: RTE2
                    Description:
                    Directory: c:\blog\rte2.log
                    Machine: n19
                    Parameter Set: FullSpeed
                    Index: 900000000
                    Seed: 4678
                    Configured Users: 10950
                    Pipe Name: DRIVER5346413218
                    Connect Rate: 100000
                    Start Rate: 100000
                    Max. Concurrency: 10950
                    Concurrency Rate: 0
                    CLIENT_NURAND: 25
                    CPU: 1
                    Additional Options:

                    Name: RTE5
                    Description:
                    Directory: c:\blog\rte5.log
                    Machine: n24
                    Parameter Set: FullSpeed
                    Index: 400000000
                    Seed: 4678
                    Configured Users: 10950
                    Pipe Name: DRIVER5-418577843
                    Connect Rate: 100000
                    Start Rate: 100000
                    Max. Concurrency: 10950
                    Concurrency Rate: 0
                    CLIENT_NURAND: 25
                    CPU: 0
                    Additional Options:

                    Name: RTE6
                    Description:
                    Directory: c:\blog\rte6.log
                    Machine: n24
                    Parameter Set: FullSpeed
                    Index: 500000000
                    Seed: 4678
                    Configured Users: 10950
                    Pipe Name: DRIVER6-418516765
                    Connect Rate: 100000
                    Start Rate: 100000
                    Max. Concurrency: 10950
                    Concurrency Rate: 0
                    CLIENT_NURAND: 25
                    CPU: 1
                    Additional Options:

                    Name: RTE7
                    Description:
                    Directory: c:\blog\rte7.log
                    Machine: n20
                    Parameter Set: FullSpeed
                    Index: 600000000
                    Seed: 4678
                    Configured Users: 10950
                    Pipe Name: DRIVER7259371328
                    Connect Rate: 100000
                    Start Rate: 100000
                    Max. Concurrency: 10950
                    Concurrency Rate: 0
                    CLIENT_NURAND: 25
                    CPU: 0
                    Additional Options:

                    Name: RTE8
                    Description:
                    Directory: c:\blog\rte8.log
                    Machine: n20
                    Parameter Set: FullSpeed
                    Index: 700000000
                    Seed: 4678
                    Configured Users: 10950
                    Pipe Name: DRIVER8259401875
                    Connect Rate: 100000
                    Start Rate: 100000
                    Max. Concurrency: 10950
                    Concurrency Rate: 0
                    CLIENT_NURAND: 25
                    CPU: 1
                    Additional Options:

          Number of User groups: 8

                    Driver Engine: RTE1
                    IIS Server: cr1
                    SQL Server: fq
                    Database: tpcc
                    User: sa
                    Protocol: HTML
                    w_id Range: 1 - 1095
                    w_id Min Warehouse: 1
                    w_id Max Warehouse: 8760
                    Scale: Normal
                    User Count: 10950
                    District id: 1
                    Scale Down: No

                    Driver Engine: RTE2
                    IIS Server: cr1
                    SQL Server: fq
                    Database: tpcc
                    User: sa
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Protocol: HTML
w_id Range: 1096 - 2190
w_id Min Warehouse: 1
w_id Max Warehouse: 8760
Scale: Normal
User Count: 10950
District id: 1
Scale Down: No

Driver Engine: RTE3
IIS Server: cr2
SQL Server: fq
Database: tpcc
User: sa
Protocol: HTML
w_id Range: 2191 - 3285
w_id Min Warehouse: 1
w_id Max Warehouse: 8760
Scale: Normal
User Count: 10950
District id: 1
Scale Down: No

Driver Engine: RTE4
IIS Server: cr2
SQL Server: fq
Database: tpcc
User: sa
Protocol: HTML
w_id Range: 3286 - 4380
w_id Min Warehouse: 1
w_id Max Warehouse: 8760
Scale: Normal
User Count: 10950
District id: 1
Scale Down: No

Driver Engine: RTE5
IIS Server: cr3
SQL Server: fqb
Database: tpcc
User: sa
Protocol: HTML
w_id Range: 4381 - 5475
w_id Min Warehouse: 1
w_id Max Warehouse: 8760
Scale: Normal
User Count: 10950
District id: 1
Scale Down: No

Driver Engine: RTE6
IIS Server: cr3
SQL Server: fqb
Database: tpcc
User: sa
Protocol: HTML
w_id Range: 5476 - 6570
w_id Min Warehouse: 1
w_id Max Warehouse: 8760
Scale: Normal
User Count: 10950
District id: 1
Scale Down: No

Driver Engine: RTE7
IIS Server: cr4
SQL Server: fqb
Database: tpcc
User: sa
Protocol: HTML
w_id Range: 6571 - 7665
w_id Min Warehouse: 1
w_id Max Warehouse: 8760
Scale: Normal
User Count: 10950
District id: 1
Scale Down: No

Driver Engine: RTE8
IIS Server: cr4
SQL Server: fqb
Database: tpcc
User: sa
Protocol: HTML
w_id Range: 7666 - 8760
w_id Min Warehouse: 1
w_id Max Warehouse: 8760
Scale: Normal
User Count: 10950
District id: 1
Scale Down: No

Number of Parameter Sets: 68


~Default
Default Parameter Set
                                    Txn     Think
Key     RT      RT      Menu
                                    Weight  Time
Time    Delay   Fence   Delay
                New Order           10.00
12.05       18.01       0.10        5.00        0.10
                Payment             10.00
12.05        3.01       0.10        5.00        0.10
                Delivery             1.00
5.05         2.01       0.10        5.00        0.10
                Stock Level          1.00
5.05         2.01       0.10       20.00        0.10
                Order Status         1.00
10.05        2.01       0.10        5.00        0.10

Tuned Distribution

                                    Txn     Think
Key     RT      RT      Menu
                                    Weight  Time
Time    Delay   Fence   Delay
                New Order           44.75
12.05       18.01       0.10        5.00        0.10
                Payment             43.10
12.05        3.01       0.10        5.00        0.10
                Delivery             4.05
5.05         2.01       0.10        5.00        0.10
                Stock Level          4.05
5.05         2.01       0.10       20.00        0.10
                Order Status         4.05
10.05        2.01       0.10        5.00        0.10

No Think

                                    Txn     Think
Key     RT      RT      Menu
                                    Weight  Time
Time    Delay   Fence   Delay
                New Order           10.00
0.00         0.00       0.00        5.00        0.00
                Payment             10.00
0.00         0.00       0.00        5.00        0.00
                Delivery             1.00
0.00         0.00       0.00        5.00        0.00
                Stock Level          1.00
0.00         0.00       0.00       20.00        0.00
                Order Status         1.00
0.00         0.00       0.00        5.00        0.00

95%

                                    Txn     Think
Key     RT      RT      Menu
                                    Weight  Time
Time    Delay   Fence   Delay
                New Order           44.75
13.00       18.01       0.10        5.00        0.10
                Payment             43.10
13.00        3.01       0.10        5.00        0.10
                Delivery             4.05
6.00         2.01       0.10        5.00        0.10
                Stock Level          4.05
6.00         2.01       0.10       20.00        0.10
                Order Status         4.05
11.00        2.01       0.10        5.00        0.10

90%

                                    Txn     Think
Key     RT      RT      Menu
                                    Weight  Time
Time    Delay   Fence   Delay
                New Order           44.83
16.00       18.01       0.10        5.00        0.10
                Payment             43.05
16.00        3.01       0.10        5.00        0.10
                Delivery             4.04
9.00         2.01       0.10        5.00        0.10
                Stock Level          4.04
9.00         2.01       0.10       20.00        0.10
                Order Status         4.04
14.00        2.01       0.10        5.00        0.10

3.0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
36.15       0.00      0.10      5.00      0.10
                    Payment            43.10
36.15       0.00      0.10      5.00      0.10
                    Delivery            4.05
15.15       0.00      0.10      5.00      0.10
                    Stock Level         4.05
15.15       0.00      0.10     20.00      0.10
                    Order Status        4.05
30.15       0.00      0.10      5.00      0.10

                    4.0
                    4.0 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
48.20      18.01      0.10      5.00      0.10
                    Payment            43.10
48.20       3.01      0.10      5.00      0.10
                    Delivery            4.05
20.20       2.01      0.10      5.00      0.10
                    Stock Level         4.05
20.20       2.01      0.10     20.00      0.10
                    Order Status        4.05
40.20       2.01      0.10      5.00      0.10

                    3.8
                    3.8 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
45.70      18.01      0.10      5.00      0.10
                    Payment            43.10
45.70       3.01      0.10      5.00      0.10
                    Delivery            4.05
19.10       2.01      0.10      5.00      0.10
                    Stock Level         4.05
19.10       2.01      0.10     20.00      0.10
                    Order Status        4.05
38.10       2.01      0.10      5.00      0.10

                    3.6
                    3.6 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
43.30      18.01      0.10      5.00      0.10
                    Payment            43.10
43.30       3.01      0.10      5.00      0.10
                    Delivery            4.05
18.10       2.01      0.10      5.00      0.10
                    Stock Level         4.05
18.10       2.01      0.10     20.00      0.10
                    Order Status        4.05
36.18       2.01      0.10      5.00      0.10

                    3.4
                    3.4 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
40.90      18.01      0.10      5.00      0.10
                    Payment            43.10
40.90       3.01      0.10      5.00      0.10
                    Delivery            4.05
17.10       2.01      0.10      5.00      0.10
                    Stock Level         4.05
17.10       2.01      0.10     20.00      0.10
                    Order Status        4.05
17.10       2.01      0.10      5.00      0.10

                    3.2
                    3.2 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
38.50      18.01      0.10      5.00      0.10
                    Payment            43.10
38.50       3.01      0.10      5.00      0.10
                    Delivery            4.05
16.10       2.01      0.10      5.00      0.10
                    Stock Level         4.05
16.10       2.01      0.10     20.00      0.10
                    Order Status        4.05
32.10       2.01      0.10      5.00      0.10

                    2.8
                    2.8 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
33.74      18.01      0.10      5.00      0.10
                    Payment            43.10
33.74       3.01      0.10      5.00      0.10
                    Delivery            4.05
14.14       2.01      0.10      5.00      0.10
                    Stock Level         4.05
14.14       2.01      0.10     20.00      0.10
                    Order Status        4.05
28.14       2.01      0.10      5.00      0.10

                    2.6
                    2.6 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
31.30      18.01      0.10      5.00      0.10
                    Payment            43.10
31.30       3.01      0.10      5.00      0.10
                    Delivery            4.05
13.10       2.01      0.10      5.00      0.10
                    Stock Level         4.05
13.10       2.01      0.10     20.00      0.10
                    Order Status        4.05
26.10       2.01      0.10      5.00      0.10

                    2.4
                    2.4 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
28.90      18.01      0.10      5.00      0.10
                    Payment            43.10
28.90       3.01      0.10      5.00      0.10
                    Delivery            4.05
12.10       2.01      0.10      5.00      0.10
                    Stock Level         4.05
12.10       2.01      0.10     20.00      0.10
                    Order Status        4.05
24.10       2.01      0.10      5.00      0.10

                    2.2
                    2.2 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
28.90      18.01      0.10      5.00      0.10
                    Payment            43.10
28.90       3.01      0.10      5.00      0.10
                    Delivery            4.05
12.10       2.01      0.10      5.00      0.10
                    Stock Level         4.05
12.10       2.01      0.10     20.00      0.10
                    Order Status        4.05
24.12       2.01      0.10      5.00      0.10

                    2.0
                    2.0 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
24.10      18.01      0.10      5.00      0.10
                    Payment            43.10
24.10       3.01      0.10      5.00      0.10
                    Delivery            4.05
10.10       2.01      0.10      5.00      0.10
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    Stock Level         4.05
10.10         2.01        0.10      20.00        0.10
                    Order Status        4.05
20.10         2.01        0.10       5.00        0.10

                    5.0
                    5.0 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.75
60.25       18.01       0.10       5.00        0.10
                    Payment            43.10
60.25         3.01      0.10       5.00        0.10
                    Delivery            4.05
25.25         2.01      0.10       5.00        0.10
                    Stock Level         4.05
25.25         2.01      0.10      20.00        0.10
                    Order Status        4.05
50.25         2.01      0.10       5.00        0.10

                    4.5
                    4.5 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.75
54.20       18.01       0.10       5.00        0.10
                    Payment            43.10
54.20         3.01      0.10       5.00        0.10
                    Delivery            4.05
22.70         2.01      0.10       5.00        0.10
                    Stock Level         4.05
22.70         2.01      0.10      20.00        0.10
                    Order Status        4.05
45.20         2.01      0.10       5.00        0.10

                    3.5
                    3.5 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.75
42.10       18.01       0.10       5.00        0.10
                    Payment            43.10
42.10         3.01      0.10       5.00        0.10
                    Delivery            4.05
17.60         2.01      0.10       5.00        0.10
                    Stock Level         4.05
17.60         2.01      0.10      20.00        0.10
                    Order Status        4.05
35.10         2.01      0.10       5.00        0.10

                    1.8
                    1.8 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.75
21.60       18.01       0.10       5.00        0.10
                    Payment            43.10
21.60         3.01      0.10       5.00        0.10
                    Delivery            4.05
9.09          2.01      0.10       5.00        0.10
                    Stock Level         4.05
9.09          2.01      0.10      20.00        0.10
                    Order Status        4.05
18.09         2.01      0.10       5.00        0.10

                    4.2
                    4.2 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.75
54.20       18.01       0.10       5.00        0.10
                    Payment            43.10
54.20         3.01      0.10       5.00        0.10
                    Delivery            4.05
22.70         2.01      0.10       5.00        0.10
                    Stock Level         4.05
22.70         2.01      0.10      20.00        0.10
                    Order Status        4.05
45.20         2.01      0.10       5.00        0.10

                    1.6
                    1.6 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.75
19.20       18.01       0.10       5.00        0.10
                    Payment            43.10
19.20         3.01      0.10       5.00        0.10
                    Delivery            4.05
8.08          2.01      0.10       5.00        0.10
                    Stock Level         4.05
8.08          2.01      0.10      20.00        0.10
                    Order Status        4.05
16.08         2.01      0.10       5.00        0.10

                    1.4
                    1.4 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.75
16.87       18.01       0.10       5.00        0.10
                    Payment            43.10
16.87         3.01      0.10       5.00        0.10
                    Delivery            4.05
7.07          2.01      0.10       5.00        0.10
                    Stock Level         4.05
7.07          2.01      0.10      20.00        0.10
                    Order Status        4.05
14.07         2.01      0.10       5.00        0.10

                    1.2
                    1.2 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.83
14.46       18.01       0.10       5.00        0.10
                    Payment            43.05
14.46         3.01      0.10       5.00        0.10
                    Delivery            4.04
6.06          2.01      0.10       5.00        0.10
                    Stock Level         4.04
6.06          2.01      0.10      20.00        0.10
                    Order Status        4.04
12.06         2.01      0.10       5.00        0.10

                    3.5
                    3.5 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.75
42.10       18.01       0.10       5.00        0.10
                    Payment            43.10
42.10         3.01      0.10       5.00        0.10
                    Delivery            4.05
17.60         2.01      0.10       5.00        0.10
                    Stock Level         4.05
17.60         2.01      0.10      20.00        0.10
                    Order Status        4.05
35.10         2.01      0.10       5.00        0.10

                    1.9
                    1.9 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.75
22.89       18.01       0.10       5.00        0.10
                    Payment            43.10
22.89         3.01      0.10       5.00        0.10
                    Delivery            4.05
9.59          2.01      0.10       5.00        0.10
                    Stock Level         4.05
9.59          2.01      0.10      20.00        0.10
                    Order Status        4.05
19.09         2.01      0.10       5.00        0.10

                    1.1
                    1.1 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    New Order          44.83
13.25       18.01       0.10       5.00       0.10
                    Payment            43.05
13.25        3.01       0.10       5.00       0.10
                    Delivery            4.04
5.55         2.01       0.10       5.00       0.10
                    Stock Level         4.04
5.55         2.01       0.10      20.00       0.10
                    Order Status        4.04
11.05        2.01       0.10       5.00       0.10


                    1.05 better
                    1.05 tt better
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.92
12.65       18.01       0.10       5.00       0.10
                    Payment            43.01
12.65        3.01       0.10       5.00       0.10
                    Delivery            4.02
5.30         2.01       0.10       5.00       0.10
                    Stock Level         4.03
5.30         2.01       0.10      20.00       0.10
                    Order Status        4.02
10.55        2.01       0.10       5.00       0.10


                    1.09
                    1.09 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.83
13.13       18.01       0.10       5.00       0.10
                    Payment            43.05
13.13        3.01       0.10       5.00       0.10
                    Delivery            4.04
5.50         2.01       0.10       5.00       0.10
                    Stock Level         4.04
5.50         2.01       0.10      20.00       0.10
                    Order Status        4.04
10.95        2.01       0.10       5.00       0.10


                    1.08
                    1.08 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.83
13.01       18.01       0.10       5.00       0.10
                    Payment            43.05
13.01        3.01       0.10       5.00       0.10
                    Delivery            4.04
5.45         2.01       0.10       5.00       0.10
                    Stock Level         4.04
5.45         2.01       0.10      20.00       0.10
                    Order Status        4.04
10.85        2.01       0.10       5.00       0.10


                    1.07
                    1.07 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.83
12.89       18.01       0.10       5.00       0.10
                    Payment            43.05
12.89        3.01       0.10       5.00       0.10
                    Delivery            4.04
5.40         2.01       0.10       5.00       0.10
                    Stock Level         4.04
5.40         2.01       0.10      20.00       0.10
                    Order Status        4.04
10.75        2.01       0.10       5.00       0.10


                    1.06
                    1.06 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.83
12.77       18.01       0.10       5.00       0.10
                    Payment            43.05
12.77        3.01       0.10       5.00       0.10
                    Delivery            4.04
5.35         2.01       0.10       5.00       0.10
                    Stock Level         4.04
5.35         2.01       0.10      20.00       0.10
                    Order Status        4.04
10.65        2.01       0.10       5.00       0.10


                    1.15
                    1.15 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.75
13.85       18.01       0.10       5.00       0.10
                    Payment            43.10
13.85        3.01       0.10       5.00       0.10
                    Delivery            4.05
5.80         2.01       0.10       5.00       0.10
                    Stock Level         4.05
5.80         2.01       0.10      20.00       0.10
                    Order Status        4.05
11.55        2.01       0.10       5.00       0.10


                    1.25
                    1.25 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.83
15.06       18.01       0.10       5.00       0.10
                    Payment            43.05
15.06        3.01       0.10       5.00       0.10
                    Delivery            4.04
6.31         2.01       0.10       5.00       0.10
                    Stock Level         4.04
6.31         2.01       0.10      20.00       0.10
                    Order Status        4.04
12.56        2.01       0.10       5.00       0.10


                    1.3
                    1.3 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.83
15.66       18.01       0.10       5.00       0.10
                    Payment            43.05
15.66        3.01       0.10       5.00       0.10
                    Delivery            4.04
6.56         2.01       0.10       5.00       0.10
                    Stock Level         4.04
6.56         2.01       0.10      20.00       0.10
                    Order Status        4.04
13.06        2.01       0.10       5.00       0.10


                    1.12
                    1.12 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.75
13.49       18.01       0.10       5.00       0.10
                    Payment            43.10
13.49        3.01       0.10       5.00       0.10
                    Delivery            4.05
5.65         2.01       0.10       5.00       0.10
                    Stock Level         4.05
5.65         2.01       0.10      20.00       0.10
                    Order Status        4.05
11.25        2.01       0.10       5.00       0.10


                    1.18
                    1.18 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.75
14.21       18.01       0.10       5.00       0.10
                    Payment            43.10
14.21        3.01       0.10       5.00       0.10
                    Delivery            4.05
5.95         2.01       0.10       5.00       0.10
                    Stock Level         4.05
5.95         2.01       0.10      20.00       0.10
                    Order Status        4.05
11.85        2.01       0.10       5.00       0.10


                    1.22
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    1.22 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
14.70       18.01       0.10       5.00       0.10
                    Payment            43.10
14.70        3.01       0.10       5.00       0.10
                    Delivery            4.05
6.16         2.01       0.10       5.00       0.10
                    Stock Level         4.05
6.16         2.01       0.10      20.00       0.10
                    Order Status        4.05
12.26        2.01       0.10       5.00       0.10

                    1.28
                    1.28 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.75
15.42       18.01       0.10       5.00       0.10
                    Payment            43.10
15.42        3.01       0.10       5.00       0.10
                    Delivery            4.05
6.46         2.01       0.10       5.00       0.10
                    Stock Level         4.05
6.46         2.01       0.10      20.00       0.10
                    Order Status        4.05
12.86        2.01       0.10       5.00       0.10

                    1.04
                    1.04 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.83
12.53       18.01       0.10       5.00       0.10
                    Payment            43.05
12.53        3.01       0.10       5.00       0.10
                    Delivery            4.04
5.25         2.01       0.10       5.00       0.10
                    Stock Level         4.04
5.25         2.01       0.10      20.00       0.10
                    Order Status        4.04
10.45        2.01       0.10       5.00       0.10

                    1.03
                    1.03 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.83
12.41       18.01       0.10       5.00       0.10
                    Payment            43.05
12.41        3.01       0.10       5.00       0.10
                    Delivery            4.04
5.20         2.01       0.10       5.00       0.10
                    Stock Level         4.04
5.20         2.01       0.10      20.00       0.10
                    Order Status        4.04
10.35        2.01       0.10       5.00       0.10

                    1.02
                    1.02 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.83
12.29       18.01       0.10       5.00       0.10
                    Payment            43.05
12.29        3.01       0.10       5.00       0.10
                    Delivery            4.04
5.15         2.01       0.10       5.00       0.10
                    Stock Level         4.04
5.15         2.01       0.10      20.00       0.10
                    Order Status        4.04
10.25        2.01       0.10       5.00       0.10

                    1.01
                    1.01 tt
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.83
12.17       18.01       0.10       5.00       0.10
                    Payment            43.05
12.17        3.01       0.10       5.00       0.10
                    Delivery            4.04
5.10         2.01       0.10       5.00       0.10
                    Stock Level         4.04
5.10         2.01       0.10      20.00       0.10
                    Order Status        4.04
10.15        2.01       0.10       5.00       0.10

                    1.005_best
                    1.005 tt best
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.88
12.11       18.01       0.10       5.00       0.10
                    Payment            43.02
12.11        3.01       0.10       5.00       0.10
                    Delivery            4.03
5.07         2.01       0.10       5.00       0.10
                    Stock Level         4.03
5.07         2.01       0.10      20.00       0.10
                    Order Status        4.03
10.10        2.01       0.10       5.00       0.10

                    1.001_best
                    1.001 tt best
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.90
12.06       18.01       0.10       5.00       0.10
                    Payment            43.05
12.06        3.01       0.10       5.00       0.10
                    Delivery            4.01
5.06         2.01       0.10       5.00       0.10
                    Stock Level         4.01
5.06         2.01       0.10      20.00       0.10
                    Order Status        4.04
10.06        2.01       0.10       5.00       0.10

                    1.03 better
                    1.03 tt more aggressive
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.92
12.41       18.01       0.10       5.00       0.10
                    Payment            43.01
12.41        3.01       0.10       5.00       0.10
                    Delivery            4.02
5.20         2.01       0.10       5.00       0.10
                    Stock Level         4.03
5.20         2.01       0.10      20.00       0.10
                    Order Status        4.02
10.35        2.01       0.10       5.00       0.10

                    1.005 better
                    1.005 tt more aggressive
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.90
12.11       18.01       0.10       5.00       0.10
                    Payment            43.05
12.11        3.01       0.10       5.00       0.10
                    Delivery            4.01
5.07         2.01       0.10       5.00       0.10
                    Stock Level         4.03
5.07         2.01       0.10      20.00       0.10
                    Order Status        4.01
10.10        2.01       0.10       5.00       0.10

                    1.02 better
                    1.02 tt more aggressive
                                        Txn     Think
Key     RT      RT      Menu
                                     Weight  Time
Time    Delay   Fence   Delay
                    New Order          44.92
12.29       18.01       0.10       5.00       0.10
                    Payment            43.01
12.29        3.01       0.10       5.00       0.10
                    Delivery            4.02
5.15         2.01       0.10       5.00       0.10
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    Stock Level         4.03
5.15          2.01        0.10      20.00        0.10
                    Order Status        4.02
10.25         2.01        0.10       5.00        0.10

                    1.01 best
                    1.01 tt best
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.90
12.17       18.01       0.10       5.00        0.10
                    Payment             43.05
12.17         3.01      0.10       5.00        0.10
                    Delivery             4.01
5.10          2.01      0.10       5.00        0.10
                    Stock Level         4.01
5.10          2.01      0.10      20.00        0.10
                    Order Status        4.04
10.15         2.01      0.10       5.00        0.10

                    1.02 best
                    1.02 tt best
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.96
12.29       18.01       0.00       5.00        0.00
                    Payment             43.00
12.29         3.01      0.00       5.00        0.00
                    Delivery             4.00
5.15          2.01      0.00       5.00        0.00
                    Stock Level         4.03
5.15          2.01      0.00      20.00        0.00
                    Order Status        4.01
10.25         2.01      0.00       5.00        0.00

                    1.03 best
                    1.03 tt best
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.96
12.41       18.01       0.10       5.00        0.10
                    Payment             43.01
12.41         3.01      0.10       5.00        0.10
                    Delivery             4.01
5.20          2.01      0.10       5.00        0.10
                    Stock Level         4.01
5.20          2.01      0.10      20.00        0.10
                    Order Status        4.01
10.35         2.01      0.10       5.00        0.10

                    5.5
                    5.5 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.83
66.28       18.01       0.10       5.00        0.10
                    Payment             43.05
66.28         3.01      0.10       5.00        0.10
                    Delivery             4.04
27.77         2.01      0.10       5.00        0.10
                    Stock Level         4.04
27.77         2.01      0.10      20.00        0.10
                    Order Status        4.04
55.27         2.01      0.10       5.00        0.10

                    6.0
                    6.0 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.83
72.30       18.01       0.10       5.00        0.10
                    Payment             43.05
72.30         3.01      0.10       5.00        0.10
                    Delivery             4.04
30.30         2.01      0.10       5.00        0.10
                    Stock Level         4.04
30.30         2.01      0.10      20.00        0.10
                    Order Status        4.04
60.30         2.01      0.10       5.00        0.10

                    6.5
                    6.5 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.83
79.53       18.01       0.10       5.00        0.10
                    Payment             43.05
79.53         3.01      0.10       5.00        0.10
                    Delivery             4.04
33.33         2.01      0.10       5.00        0.10
                    Stock Level         4.04
33.33         2.01      0.10      20.00        0.10
                    Order Status        4.04
66.33         2.01      0.10       5.00        0.10

                    7.0
                    7.0 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.83
84.35       18.01       0.10       5.00        0.10
                    Payment             43.05
84.35         3.01      0.10       5.00        0.10
                    Delivery             4.04
35.35         2.01      0.10       5.00        0.10
                    Stock Level         4.04
35.35         2.01      0.10      20.00        0.10
                    Order Status        4.04
70.35         2.01      0.10       5.00        0.10

                    7.5
                    7.5 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.83
90.38       18.01       0.10       5.00        0.10
                    Payment             43.05
90.38         3.01      0.10       5.00        0.10
                    Delivery             4.04
37.88         2.01      0.10       5.00        0.10
                    Stock Level         4.04
37.88         2.01      0.10      20.00        0.10
                    Order Status        4.04
75.38         2.01      0.10       5.00        0.10

                    8.0
                    8.0 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.83
96.40       18.01       0.10       5.00        0.10
                    Payment             43.05
96.40         3.01      0.10       5.00        0.10
                    Delivery             4.04
40.40         2.01      0.10       5.00        0.10
                    Stock Level         4.04
40.40         2.01      0.10      20.00        0.10
                    Order Status        4.04
80.40         2.01      0.10       5.00        0.10

                    8.5
                    8.5 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
                    New Order           44.83
102.43      18.01       0.10       5.00        0.10
                    Payment             43.05
192.43        3.01      0.10       5.00        0.10
                    Delivery             4.04
42.92         2.01      0.10       5.00        0.10
                    Stock Level         4.04
42.92         2.01      0.10      20.00        0.10
                    Order Status        4.04
85.42         2.01      0.10       5.00        0.10

                    9.0
                    9.0 tt
                                            Txn     Think
Key     RT      RT      Menu
                                          Weight  Time
Time    Delay   Fence   Delay
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
                    New Order          44.83
108.45      18.01       0.10       5.00       0.10
                    Payment            43.05
108.45       3.01       0.10       5.00       0.10
                    Delivery            4.04
45.45        2.01       0.10       5.00       0.10
                    Stock Level         4.04
45.45        2.01       0.10      20.00       0.10
                    Order Status        4.04
90.45        2.01       0.10       5.00       0.10

                    9.5
                    9.5 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.83
114.47      18.01       0.10       5.00       0.10
                    Payment            43.05
114.47       3.01       0.10       5.00       0.10
                    Delivery            4.04
47.98        2.01       0.10       5.00       0.10
                    Stock Level         4.04
47.98        2.01       0.10      20.00       0.10
                    Order Status        4.04
95.47        2.01       0.10       5.00       0.10

                    10
                    10 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.83
120.50      18.01       0.10       5.00       0.10
                    Payment            43.05
120.50       3.01       0.10       5.00       0.10
                    Delivery            4.04
50.50        2.01       0.10       5.00       0.10
                    Stock Level         4.04
50.50        2.01       0.10      20.00       0.10
                    Order Status        4.04
100.50       2.01       0.10       5.00       0.10

                    1.02 better
                    1.02 more agressive
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.92
12.05       18.01       0.10       5.00       0.10
                    Payment            43.01
12.05        3.01       0.10       5.00       0.10
                    Delivery            4.02
5.05         2.01       0.10       5.00       0.10
                    Stock Level         4.03
5.05         2.01       0.10      20.00       0.10
                    Order Status        4.02
10.05        2.01       0.10       5.00       0.10

                    1.01 better
                    1.01 more aggressive
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.92
12.17       18.01       0.10       5.00       0.10
                    Payment            43.01
12.17        3.01       0.10       5.00       0.10
                    Delivery            4.02
5.10         2.01       0.10       5.00       0.10
                    Stock Level         4.03
5.10         2.01       0.10      20.00       0.10
                    Order Status        4.02
10.15        2.01       0.10       5.00       0.10

                    1.001 better
                    1.001 more aggressive
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.92
12.06       18.01       0.10       5.00       0.10
                    Payment            43.01
12.06        3.01       0.10       5.00       0.10
                    Delivery            4.02
5.06         2.01       0.10       5.00       0.10
                    Stock Level         4.03
5.06         2.01       0.10      20.00       0.10
                    Order Status        4.02
10.06        2.01       0.10       5.00       0.10

                    FullSpeed
                    1.000 tt
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.92
12.05       18.01       0.10       5.00       0.10
                    Payment            43.01
12.05        3.01       0.10       5.00       0.10
                    Delivery            4.02
5.05         2.01       0.10       5.00       0.10
                    Stock Level         4.03
5.05         2.01       0.10      20.00       0.10
                    Order Status        4.02
10.05        2.01       0.10       5.00       0.10

                    1.003 best
                    1.003 best
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          44.90
12.09       18.01       0.10       5.00       0.10
                    Payment            43.05
12.09        3.01       0.10       5.00       0.10
                    Delivery            4.01
5.07         2.01       0.10       5.00       0.10
                    Stock Level         4.03
5.07         2.01       0.10      20.00       0.10
                    Order Status        4.01
10.08        2.01       0.10       5.00       0.10

                    overdrive
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          10.00
10.00       18.01       0.10       5.00       0.10
                    Payment            10.00
10.00        3.01       0.10       5.00       0.10
                    Delivery            1.00
4.00         2.01       0.10       5.00       0.10
                    Stock Level         1.00
4.00         2.01       0.10      20.00       0.10
                    Order Status        1.00
8.00         2.01       0.10       5.00       0.10

                    overdrive-2
                                          Txn      Think
Key      RT       RT       Menu
                                       Weight   Time
Time     Delay    Fence    Delay
                    New Order          10.00
6.00        18.01       0.10       5.00       0.10
                    Payment            10.00
6.00         3.01       0.10       5.00       0.10
                    Delivery            1.00
3.00         2.01       0.10       5.00       0.10
                    Stock Level         1.00
3.00         2.01       0.10      20.00       0.10
                    Order Status        1.00
6.00         2.01       0.10       5.00       0.10
```

Internet Information Server Registry Parameters

```
Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\InetInfo]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\InetInfo\Parameters]
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
"ListenBackLog"=dword:00000019
"DispatchEntries"=hex(7):4c,00,44,00,41,00,50,00,53,0
0,56,00,43,00,00,00,00,00
"PoolThreadLimit"=dword:000007fe
"ThreadTimeout"=dword:00015180

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\InetInfo\Performance]
"Library"="infoctrs.dll"
"Open"="OpenINFOPerformanceData"
"Close"="CloseINFOPerformanceData"
"Collect"="CollectINFOPerformanceData"
"Last Counter"=dword:00000842
"Last Help"=dword:00000843
"First Counter"=dword:00000802
"First Help"=dword:00000803
"Library Validation
Code"=hex:de,d0,18,8b,93,a2,c5,01,10,25,00,00,00,00,0
0,00
"WbemAdapFileTime"=hex:00,a0,38,ed,84,36,c3,01
"WbemAdapFileSize"=dword:00002510
"WbemAdapStatus"=dword:00000000
```

World Wide Web Service Registry Parameters

```
Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC]
"Type"=dword:00000020
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,00,3a,00,5c,00,57,00,49,00,4e,0
0,4e,00,54,00,5c,00,53,00,\

79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,69,00
,6e,00,65,00,74,00,73,\

00,72,00,76,00,5c,00,69,00,6e,00,65,00,74,00,69,00,6e
,00,66,00,6f,00,2e,00,\
  65,00,78,00,65,00,00,00
"DisplayName"="World Wide Web Publishing Service"
"DependOnService"=hex(7):49,00,49,00,53,00,41,00,44,0
0,4d,00,49,00,4e,00,00,00,\
  00,00
"DependOnGroup"=hex(7):00,00
"ObjectName"="LocalSystem"
"Description"="Provides Web connectivity and
administration through the Internet Information
Services snap-in."
"FailureActions"=hex:ff,ff,ff,ff,80,3a,0e,00,90,3a,0e
,00,03,00,00,00,98,3a,0e,\

00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00
,00,00,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\ASP]
"NOTE"="This is for backward compatibility only."

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\ASP\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Parameters]
"MajorVersion"=dword:00000005
"MinorVersion"=dword:00000000
"InstallPath"="C:\\WINNT\\System32\\inetsrv"
"CertMapList"="C:\\WINNT\\System32\\inetsrv\\iiscrmap
.dll"
"AccessDeniedMessage"="Error: Access is Denied."
"Filter DLLs"=""
"LogFileDirectory"="C:\\WINNT\\System32\\LogFiles"
"AcceptExOutstanding"=dword:00000028

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Parameters\ADCLaunch]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Parameters\ADCLaunch\AdvancedDataFactory]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Parameters\ADCLaunch\RDSServer.DataFactory]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Parameters\Script Map]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Parameters\Virtual Roots]
"/"="c:\\inetpub\\wwwroot,,207"
"/Scripts"="c:\\inetpub\\scripts,,1"
"/IISHelp"="c:\\winnt\\help\\iishelp,,1"
"/IISAdmin"="C:\\WINNT\\System32\\inetsrv\\iisadmin,,
1"
"/IISSamples"="c:\\inetpub\\iissamples,,1"
"/MSADC"="c:\\program files\\common
files\\system\\msadc,,1"
"/_vti_bin"="C:\\Program Files\\Common
Files\\Microsoft Shared\\Web Server
Extensions\\40\\isapi,,1"
"/Printers"="C:\\WINNT\\web\\printers,,201"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Performance]
"Library"="w3ctrs.dll"
"Open"="OpenW3PerformanceData"
"Close"="CloseW3PerformanceData"
"Collect"="CollectW3PerformanceData"
"Last Counter"=dword:000008e6
"Last Help"=dword:000008e7
"First Counter"=dword:00000844
"First Help"=dword:00000845
"Library Validation
Code"=hex:52,4c,7b,a6,7a,5b,c2,01,10,1d,00,00,00,00,0
0,00
"WbemAdapFileTime"=hex:00,a0,38,ed,84,36,c3,01
"WbemAdapFileSize"=dword:00001d10
"WbemAdapStatus"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Security]
"Security"=hex:01,00,14,80,a0,00,00,00,ac,00,00,00,14
,00,00,00,30,00,00,00,02,\

00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,02,00,70,00,04,00,00,00,00,00,18,00,fd,01,02,00
,01,01,00,00,00,00,00,\

05,12,00,00,00,74,00,6f,00,00,00,1c,00,ff,01,0f,00,01
,02,00,00,00,00,00,05,\

20,00,00,00,20,02,00,00,72,00,73,00,00,00,18,00,8d,01
,02,00,01,01,00,00,00,\

00,00,05,0b,00,00,00,20,02,00,00,00,00,1c,00,fd,01,02
,00,01,02,00,00,00,00,\

00,05,20,00,00,00,23,02,00,00,72,00,73,00,01,01,00,00
,00,00,00,05,12,00,00,\
  00,01,01,00,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Enum]
"0"="Root\\LEGACY_W3SVC\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
```

TPCC Application Registry Parameters

```
Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\TPCC]
"Path"="C:\\Inetpub\\wwwroot\\"
"NumberOfDeliveryThreads"=dword:0000000e
"MaxConnections"=dword:00007530
"MaxPendingDeliveries"=dword:000007d0
"DB_Protocol"="ODBC"
"TxnMonitor"="COM"
"DbName"="tpcc"
"DbUser"="sa"
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
"DbPassword"=""
"COM_SinglePool"="YES"
"CallNoDuplicatesNewOrder"=dword:00000001
"yyDbServer"="fq"
"DbServer"="fq"
"ConnectDelay"=dword:00000001
```

Tcp/ip Registry Parameters

```
Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip]
"Type"=dword:00000001
"Start"=dword:00000001
"ErrorControl"=dword:00000001
"Tag"=dword:00000004
"ImagePath"=hex(2):53,00,79,00,73,00,74,00,65,00,6d,0
0,33,00,32,00,5c,00,44,00,\

52,00,49,00,56,00,45,00,52,00,53,00,5c,00,74,00,63,00
,70,00,69,00,70,00,2e,\
  00,73,00,79,00,73,00,00,00
"DisplayName"="TCP/IP Protocol Driver"
"Group"="PNP_TDI"
"Description"="TCP/IP Protocol Driver"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Linkage]
"Bind"=hex(7):5c,00,44,00,65,00,76,00,69,00,63,00,65,
00,5c,00,7b,00,44,00,32,\

00,39,00,45,00,45,00,46,00,41,00,44,00,2d,00,36,00,41
,00,33,00,44,00,2d,00,\

34,00,34,00,46,00,46,00,2d,00,39,00,46,00,46,00,31,00
,2d,00,42,00,30,00,34,\

00,36,00,38,00,43,00,46,00,30,00,35,00,45,00,38,00,45
,00,7d,00,00,00,5c,00,\

44,00,65,00,76,00,69,00,63,00,65,00,5c,00,7b,00,41,00
,43,00,35,00,30,00,35,\

00,43,00,31,00,41,00,2d,00,36,00,41,00,42,00,39,00,2d
,00,34,00,35,00,41,00,\

30,00,2d,00,39,00,31,00,32,00,43,00,2d,00,42,00,45,00
,33,00,44,00,37,00,45,\

00,36,00,45,00,45,00,30,00,36,00,37,00,7d,00,00,00,5c
,00,44,00,65,00,76,00,\

69,00,63,00,65,00,5c,00,7b,00,33,00,37,00,45,00,35,00
,41,00,35,00,34,00,45,\

00,2d,00,46,00,46,00,31,00,38,00,2d,00,34,00,38,00,36
,00,43,00,2d,00,42,00,\

33,00,41,00,44,00,2d,00,45,00,38,00,30,00,34,00,34,00
,39,00,34,00,32,00,30,\

00,41,00,30,00,31,00,7d,00,00,00,5c,00,44,00,65,00,76
,00,69,00,63,00,65,00,\

5c,00,7b,00,34,00,44,00,38,00,35,00,43,00,30,00,31,00
,34,00,2d,00,35,00,45,\

00,37,00,36,00,2d,00,34,00,38,00,43,00,46,00,2d,00,39
,00,33,00,45,00,41,00,\

2d,00,33,00,31,00,37,00,45,00,30,00,46,00,37,00,32,00
,35,00,34,00,38,00,36,\

00,7d,00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65
,00,5c,00,7b,00,34,00,\

32,00,34,00,39,00,34,00,33,00,31,00,41,00,2d,00,34,00
,36,00,39,00,45,00,2d,\

00,34,00,37,00,33,00,35,00,2d,00,41,00,32,00,39,00,32
,00,2d,00,30,00,31,00,\

41,00,41,00,35,00,32,00,36,00,37,00,34,00,31,00,46,00
,43,00,7d,00,00,00,5c,\

00,44,00,65,00,76,00,69,00,63,00,65,00,5c,00,7b,00,33
,00,42,00,30,00,39,00,\

44,00,44,00,42,00,37,00,2d,00,37,00,45,00,42,00,38,00
,2d,00,34,00,39,00,34,\

00,31,00,2d,00,38,00,31,00,32,00,31,00,2d,00,35,00,32
,00,44,00,43,00,36,00,\

33,00,35,00,39,00,46,00,35,00,41,00,36,00,7d,00,00,00
,5c,00,44,00,65,00,76,\

00,69,00,63,00,65,00,5c,00,7b,00,36,00,38,00,34,00,46
,00,41,00,36,00,36,00,\

30,00,2d,00,44,00,30,00,38,00,32,00,2d,00,34,00,41,00
,38,00,43,00,2d,00,41,\

00,43,00,38,00,43,00,2d,00,43,00,39,00,44,00,34,00,34
,00,39,00,42,00,32,00,\

31,00,36,00,38,00,36,00,7d,00,00,00,5c,00,44,00,65,00
,76,00,69,00,63,00,65,\

00,5c,00,4e,00,64,00,69,00,73,00,57,00,61,00,6e,00,49
,00,70,00,00,00,00,00
"Route"=hex(7):22,00,7b,00,44,00,32,00,39,00,45,00,45
,00,46,00,41,00,44,00,2d,\

00,36,00,41,00,33,00,44,00,2d,00,34,00,34,00,46,00,46
,00,2d,00,39,00,46,00,\

46,00,31,00,2d,00,42,00,30,00,34,00,36,00,38,00,43,00
,46,00,30,00,35,00,45,\

00,38,00,45,00,7d,00,22,00,00,00,22,00,7b,00,41,00,43
,00,35,00,30,00,35,00,\

43,00,31,00,41,00,2d,00,36,00,41,00,42,00,39,00,2d,00
,34,00,35,00,41,00,30,\

00,2d,00,39,00,31,00,32,00,43,00,2d,00,42,00,45,00,33
,00,44,00,37,00,45,00,\

36,00,45,00,45,00,30,00,36,00,37,00,7d,00,22,00,00,00
,22,00,7b,00,33,00,37,\

00,45,00,35,00,41,00,35,00,34,00,45,00,2d,00,46,00,46
,00,31,00,38,00,2d,00,\

34,00,38,00,36,00,43,00,2d,00,42,00,33,00,41,00,44,00
,2d,00,45,00,38,00,30,\

00,34,00,34,00,39,00,34,00,32,00,30,00,41,00,30,00,31
,00,7d,00,22,00,00,00,\

22,00,7b,00,34,00,44,00,38,00,35,00,43,00,30,00,31,00
,34,00,2d,00,35,00,45,\

00,37,00,36,00,2d,00,34,00,38,00,43,00,46,00,2d,00,39
,00,33,00,45,00,41,00,\

2d,00,33,00,31,00,37,00,45,00,30,00,46,00,37,00,32,00
,35,00,34,00,38,00,36,\

00,7d,00,22,00,00,00,22,00,7b,00,34,00,32,00,34,00,39
,00,34,00,33,00,31,00,\

41,00,2d,00,34,00,36,00,39,00,45,00,2d,00,34,00,37,00
,33,00,35,00,2d,00,41,\

00,32,00,39,00,32,00,2d,00,30,00,31,00,41,00,41,00,35
,00,32,00,36,00,37,00,\

34,00,31,00,46,00,43,00,7d,00,22,00,00,00,22,00,7b,00
,33,00,42,00,30,00,39,\

00,44,00,44,00,42,00,37,00,2d,00,37,00,45,00,42,00,38
,00,2d,00,34,00,39,00,\

34,00,31,00,2d,00,38,00,31,00,32,00,31,00,2d,00,35,00
,32,00,44,00,43,00,36,\

00,33,00,35,00,39,00,46,00,35,00,41,00,36,00,7d,00,22
,00,00,00,22,00,7b,00,\

36,00,38,00,34,00,46,00,41,00,36,00,36,00,30,00,2d,00
,44,00,30,00,38,00,32,\
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
00,2d,00,34,00,41,00,38,00,43,00,2d,00,41,00,43,00,38
,00,43,00,2d,00,43,00,\

39,00,44,00,34,00,34,00,39,00,42,00,32,00,31,00,36,00
,38,00,36,00,7d,00,22,\

00,00,00,22,00,4e,00,64,00,69,00,73,00,57,00,61,00,6e
,00,49,00,70,00,22,00,\
  00,00,00,00
"Export"=hex(7):5c,00,44,00,65,00,76,00,69,00,63,00,6
5,00,5c,00,54,00,63,00,70,\

00,69,00,70,00,5f,00,7b,00,44,00,32,00,39,00,45,00,45
,00,46,00,41,00,44,00,\

2d,00,36,00,41,00,33,00,44,00,2d,00,34,00,34,00,46,00
,46,00,2d,00,39,00,46,\

00,46,00,31,00,2d,00,42,00,30,00,34,00,36,00,38,00,43
,00,46,00,30,00,35,00,\

45,00,38,00,45,00,7d,00,00,00,5c,00,44,00,65,00,76,00
,69,00,63,00,65,00,5c,\

00,54,00,63,00,70,00,69,00,70,00,5f,00,7b,00,41,00,43
,00,35,00,30,00,35,00,\

43,00,31,00,41,00,2d,00,36,00,41,00,42,00,39,00,2d,00
,34,00,35,00,41,00,30,\

00,2d,00,39,00,31,00,32,00,43,00,2d,00,42,00,45,00,33
,00,44,00,37,00,45,00,\

36,00,45,00,45,00,30,00,36,00,37,00,7d,00,00,00,5c,00
,44,00,65,00,76,00,69,\

00,63,00,65,00,5c,00,54,00,63,00,70,00,69,00,70,00,5f
,00,7b,00,33,00,37,00,\

45,00,35,00,41,00,35,00,34,00,45,00,2d,00,46,00,46,00
,31,00,38,00,2d,00,34,\

00,38,00,36,00,43,00,2d,00,42,00,33,00,41,00,44,00,2d
,00,45,00,38,00,30,00,\

34,00,34,00,39,00,34,00,32,00,30,00,41,00,30,00,31,00
,7d,00,00,00,5c,00,44,\

00,65,00,76,00,69,00,63,00,65,00,5c,00,54,00,63,00,70
,00,69,00,70,00,5f,00,\

7b,00,34,00,44,00,38,00,35,00,43,00,30,00,31,00,34,00
,2d,00,35,00,45,00,37,\

00,36,00,2d,00,34,00,38,00,43,00,46,00,2d,00,39,00,33
,00,45,00,41,00,2d,00,\

33,00,31,00,37,00,45,00,30,00,46,00,37,00,32,00,35,00
,34,00,38,00,36,00,7d,\

00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c
,00,54,00,63,00,70,00,\

69,00,70,00,5f,00,7b,00,34,00,32,00,34,00,39,00,34,00
,33,00,31,00,41,00,2d,\

00,34,00,36,00,39,00,45,00,2d,00,34,00,37,00,33,00,35
,00,2d,00,41,00,32,00,\

39,00,32,00,2d,00,30,00,31,00,41,00,41,00,35,00,32,00
,36,00,37,00,34,00,31,\

00,46,00,43,00,7d,00,00,00,5c,00,44,00,65,00,76,00,69
,00,63,00,65,00,5c,00,\

54,00,63,00,70,00,69,00,70,00,5f,00,7b,00,33,00,42,00
,30,00,39,00,44,00,44,\

00,42,00,37,00,2d,00,37,00,45,00,42,00,38,00,2d,00,34
,00,39,00,34,00,31,00,\

2d,00,38,00,31,00,32,00,31,00,2d,00,35,00,32,00,44,00
,43,00,36,00,33,00,35,\

00,39,00,46,00,35,00,41,00,36,00,7d,00,00,00,5c,00,44
,00,65,00,76,00,69,00,\

63,00,65,00,5c,00,54,00,63,00,70,00,69,00,70,00,5f,00
,7b,00,36,00,38,00,34,\

00,46,00,41,00,36,00,36,00,30,00,2d,00,44,00,30,00,38
,00,32,00,2d,00,34,00,\

41,00,38,00,43,00,2d,00,41,00,43,00,38,00,43,00,2d,00
,43,00,39,00,44,00,34,\

00,34,00,39,00,42,00,32,00,31,00,36,00,38,00,36,00,7d
,00,00,00,5c,00,44,00,\

65,00,76,00,69,00,63,00,65,00,5c,00,54,00,63,00,70,00
,69,00,70,00,5f,00,7b,\

00,44,00,39,00,30,00,45,00,30,00,34,00,46,00,32,00,2d
,00,33,00,41,00,44,00,\

39,00,2d,00,34,00,46,00,39,00,38,00,2d,00,39,00,34,00
,36,00,34,00,2d,00,37,\

00,35,00,31,00,45,00,31,00,30,00,36,00,44,00,37,00,45
,00,36,00,41,00,7d,00,\

00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c,00
,54,00,63,00,70,00,69,\

00,70,00,5f,00,7b,00,33,00,46,00,31,00,42,00,41,00,32
,00,39,00,37,00,2d,00,\

45,00,36,00,38,00,35,00,2d,00,34,00,31,00,36,00,42,00
,2d,00,38,00,32,00,44,\

00,37,00,2d,00,37,00,30,00,45,00,37,00,37,00,31,00,43
,00,43,00,38,00,37,00,\
  34,00,35,00,7d,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters]
"NV Hostname"="CL2"
"DataBasePath"=hex(2):25,00,53,00,79,00,73,00,74,00,6
5,00,6d,00,52,00,6f,00,6f,\

00,74,00,25,00,5c,00,53,00,79,00,73,00,74,00,65,00,6d
,00,33,00,32,00,5c,00,\

64,00,72,00,69,00,76,00,65,00,72,00,73,00,5c,00,65,00
,74,00,63,00,00,00
"NameServer"=""
"ForwardBroadcasts"=dword:00000000
"IPEnableRouter"=dword:00000000
"SearchList"=""
"UseDomainNameDevolution"=dword:00000001
"EnableICMPRedirect"=dword:00000001
"DeadGWDetectDefault"=dword:00000001
"DontAddDefaultGatewayDefault"=dword:00000000
"EnableSecurityFilters"=dword:00000000
"AllowUnqualifiedQuery"=dword:00000000
"PrioritizeRecordData"=dword:00000001
"NV Domain"=""
"Hostname"="CL2"
"Domain"=""

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Adapters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Adapters\NdisWanIp]
"LLInterface"="WANARP"
"IpConfig"=hex(7):54,00,63,00,70,00,69,00,70,00,5c,00
,50,00,61,00,72,00,61,00,\

6d,00,65,00,74,00,65,00,72,00,73,00,5c,00,49,00,6e,00
,74,00,65,00,72,00,66,\

00,61,00,63,00,65,00,73,00,5c,00,7b,00,44,00,39,00,30
,00,45,00,30,00,34,00,\

46,00,32,00,2d,00,33,00,41,00,44,00,39,00,2d,00,34,00
,46,00,39,00,38,00,2d,\

00,39,00,34,00,36,00,34,00,2d,00,37,00,35,00,31,00,45
,00,31,00,30,00,36,00,\

44,00,37,00,45,00,36,00,41,00,7d,00,00,00,54,00,63,00
,70,00,69,00,70,00,5c,\

00,50,00,61,00,72,00,61,00,6d,00,65,00,74,00,65,00,72
,00,73,00,5c,00,49,00,\

6e,00,74,00,65,00,72,00,66,00,61,00,63,00,65,00,73,00
,5c,00,7b,00,33,00,46,\
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
00,31,00,42,00,41,00,32,00,39,00,37,00,2d,00,45,00,36
,00,38,00,35,00,2d,00,\

34,00,31,00,36,00,42,00,2d,00,38,00,32,00,44,00,37,00
,2d,00,37,00,30,00,45,\

00,37,00,37,00,31,00,43,00,43,00,38,00,37,00,34,00,35
,00,7d,00,00,00,00,00
"NumInterfaces"=dword:00000002
"IpInterfaces"=hex:f2,04,0e,d9,d9,3a,98,4f,94,64,75,1
e,10,6d,7e,6a,97,a2,1b,3f,\
  85,e6,6b,41,82,d7,70,e7,71,cc,87,45

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Adapters\{37E5A54E-FF18-486C-B3AD-
E80449420A01}]
"LLInterface"=""
"IpConfig"=hex(7):54,00,63,00,70,00,69,00,70,00,5c,00
,50,00,61,00,72,00,61,00,\

6d,00,65,00,74,00,65,00,72,00,73,00,5c,00,49,00,6e,00
,74,00,65,00,72,00,66,\

00,61,00,63,00,65,00,73,00,5c,00,7b,00,33,00,37,00,45
,00,35,00,41,00,35,00,\

34,00,45,00,2d,00,46,00,46,00,31,00,38,00,2d,00,34,00
,38,00,36,00,43,00,2d,\

00,42,00,33,00,41,00,44,00,2d,00,45,00,38,00,30,00,34
,00,34,00,39,00,34,00,\
  32,00,30,00,41,00,30,00,31,00,7d,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Adapters\{3B09DDB7-7EB8-4941-8121-
52DC6359F5A6}]
"LLInterface"=""
"IpConfig"=hex(7):54,00,63,00,70,00,69,00,70,00,5c,00
,50,00,61,00,72,00,61,00,\

6d,00,65,00,74,00,65,00,72,00,73,00,5c,00,49,00,6e,00
,74,00,65,00,72,00,66,\

00,61,00,63,00,65,00,73,00,5c,00,7b,00,33,00,42,00,30
,00,39,00,44,00,44,00,\

42,00,37,00,2d,00,37,00,45,00,42,00,38,00,2d,00,34,00
,39,00,34,00,31,00,2d,\

00,38,00,31,00,32,00,31,00,2d,00,35,00,32,00,44,00,43
,00,36,00,33,00,35,00,\
  39,00,46,00,35,00,41,00,36,00,7d,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Adapters\{4249431A-469E-4735-A292-
01AA526741FC}]
"LLInterface"=""
"IpConfig"=hex(7):54,00,63,00,70,00,69,00,70,00,5c,00
,50,00,61,00,72,00,61,00,\

6d,00,65,00,74,00,65,00,72,00,73,00,5c,00,49,00,6e,00
,74,00,65,00,72,00,66,\

00,61,00,63,00,65,00,73,00,5c,00,7b,00,34,00,32,00,34
,00,39,00,34,00,33,00,\

31,00,41,00,2d,00,34,00,36,00,39,00,45,00,2d,00,34,00
,37,00,33,00,35,00,2d,\

00,41,00,32,00,39,00,32,00,2d,00,30,00,31,00,41,00,41
,00,35,00,32,00,36,00,\
  37,00,34,00,31,00,46,00,43,00,7d,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Adapters\{4D85C014-5E76-48CF-93EA-
317E0F725486}]
"LLInterface"=""
"IpConfig"=hex(7):54,00,63,00,70,00,69,00,70,00,5c,00
,50,00,61,00,72,00,61,00,\

6d,00,65,00,74,00,65,00,72,00,73,00,5c,00,49,00,6e,00
,74,00,65,00,72,00,66,\

00,61,00,63,00,65,00,73,00,5c,00,7b,00,34,00,44,00,38
,00,35,00,43,00,30,00,\

31,00,34,00,2d,00,35,00,45,00,37,00,36,00,2d,00,34,00
,38,00,43,00,46,00,2d,\

00,39,00,33,00,45,00,41,00,2d,00,33,00,31,00,37,00,45
,00,30,00,46,00,37,00,\
  32,00,35,00,34,00,38,00,36,00,7d,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Adapters\{684FA660-D082-4A8C-AC8C-
C9D449B21686}]
"LLInterface"=""
"IpConfig"=hex(7):54,00,63,00,70,00,69,00,70,00,5c,00
,50,00,61,00,72,00,61,00,\

6d,00,65,00,74,00,65,00,72,00,73,00,5c,00,49,00,6e,00
,74,00,65,00,72,00,66,\

00,61,00,63,00,65,00,73,00,5c,00,7b,00,36,00,38,00,34
,00,46,00,41,00,36,00,\

36,00,30,00,2d,00,44,00,30,00,38,00,32,00,2d,00,34,00
,41,00,38,00,43,00,2d,\

00,41,00,43,00,38,00,43,00,2d,00,43,00,39,00,44,00,34
,00,34,00,39,00,42,00,\
  32,00,31,00,36,00,38,00,36,00,7d,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Adapters\{AC505C1A-6AB9-45A0-912C-
BE3D7E6EE067}]
"LLInterface"=""
"IpConfig"=hex(7):54,00,63,00,70,00,69,00,70,00,5c,00
,50,00,61,00,72,00,61,00,\

6d,00,65,00,74,00,65,00,72,00,73,00,5c,00,49,00,6e,00
,74,00,65,00,72,00,66,\

00,61,00,63,00,65,00,73,00,5c,00,7b,00,41,00,43,00,35
,00,30,00,35,00,43,00,\

31,00,41,00,2d,00,36,00,41,00,42,00,39,00,2d,00,34,00
,35,00,41,00,30,00,2d,\

00,39,00,31,00,32,00,43,00,2d,00,42,00,45,00,33,00,44
,00,37,00,45,00,36,00,\
  45,00,45,00,30,00,36,00,37,00,7d,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Adapters\{D29EEFAD-6A3D-44FF-9FF1-
B0468CF05E8E}]
"LLInterface"=""
"IpConfig"=hex(7):54,00,63,00,70,00,69,00,70,00,5c,00
,50,00,61,00,72,00,61,00,\

6d,00,65,00,74,00,65,00,72,00,73,00,5c,00,49,00,6e,00
,74,00,65,00,72,00,66,\

00,61,00,63,00,65,00,73,00,5c,00,7b,00,44,00,32,00,39
,00,45,00,45,00,46,00,\

41,00,44,00,2d,00,36,00,41,00,33,00,44,00,2d,00,34,00
,34,00,46,00,46,00,2d,\

00,39,00,46,00,46,00,31,00,2d,00,42,00,30,00,34,00,36
,00,38,00,43,00,46,00,\
  30,00,35,00,45,00,38,00,45,00,7d,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\DNSRegisteredAdapters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces\{37E5A54E-FF18-486C-
B3AD-E80449420A01}]
"UseZeroBroadcast"=dword:00000000
"EnableDeadGWDetect"=dword:00000001
"EnableDHCP"=dword:00000001
"IPAddress"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,0
0,30,00,00,00,00,00
"SubnetMask"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,
00,30,00,00,00,00,00
"DefaultGatewayMetric"=hex(7):00,00
"NameServer"="130.168.1.228,130.168.1.232"
"Domain"=""
"DisableDynamicUpdate"=dword:00000000
"EnableAdapterDomainNameRegistration"=dword:00000000
"InterfaceMetric"=dword:00000001
"TCPAllowedPorts"=hex(7):30,00,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00
"NTEContextList"=hex(7):30,00,78,00,30,00,30,00,30,00
,30,00,30,00,30,00,30,00,\
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
32,00,00,00,30,00,78,00,30,00,30,00,30,00,30,00,30,00,30,00
,30,00,30,00,33,00,00,\
  00,00,00
"DhcpClassIdBin"=hex:
"DhcpIPAddress"=""
"DefaultGateway"=hex(7):00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces\{3B09DDB7-7EB8-4941-
8121-52DC6359F5A6}]
"UseZeroBroadcast"=dword:00000000
"EnableDeadGWDetect"=dword:00000001
"EnableDHCP"=dword:00000000
"IPAddress"=hex(7):31,00,33,00,30,00,2e,00,31,00,37,0
0,32,00,2e,00,31,00,31,00,\
  2e,00,34,00,39,00,00,00,00,00
"SubnetMask"=hex(7):32,00,35,00,35,00,2e,00,32,00,35,
00,35,00,2e,00,30,00,2e,\
  00,30,00,00,00,00,00
"DefaultGateway"=hex(7):00,00
"DefaultGatewayMetric"=hex(7):00,00
"DisableDynamicUpdate"=dword:00000000
"EnableAdapterDomainNameRegistration"=dword:00000000
"InterfaceMetric"=dword:00000001
"TCPAllowedPorts"=hex(7):30,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00
"NTEContextList"=hex(7):30,00,78,00,30,00,30,00,30,00
,30,00,30,00,30,00,30,00,\
  32,00,00,00,00,00
"NameServer"=""
"Domain"=""

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces\{3F1BA297-E685-416B-
82D7-70E771CC8745}]
"UseZeroBroadcast"=dword:00000000
"EnableDHCP"=dword:00000000
"IPAddress"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,0
0,30,00,00,00,00,00
"SubnetMask"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,
00,30,00,00,00,00,00
"DefaultGateway"=hex(7):00,00
"EnableDeadGWDetect"=dword:00000001
"DontAddDefaultGateway"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces\{4249431A-469E-4735-
A292-01AA526741FC}]
"UseZeroBroadcast"=dword:00000000
"EnableDeadGWDetect"=dword:00000001
"EnableDHCP"=dword:00000001
"IPAddress"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,0
0,30,00,00,00,00,00
"SubnetMask"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,
00,30,00,00,00,00,00
"DefaultGateway"=hex(7):00,00
"DefaultGatewayMetric"=hex(7):00,00
"NameServer"=""
"Domain"=""
"DisableDynamicUpdate"=dword:00000000
"EnableAdapterDomainNameRegistration"=dword:00000000
"InterfaceMetric"=dword:00000001
"TCPAllowedPorts"=hex(7):30,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00
"NTEContextList"=hex(7):30,00,78,00,30,00,30,00,30,00
,30,00,30,00,30,00,30,00,\
  32,00,00,00,00,00
"DhcpIPAddress"="130.168.253.26"
"DhcpSubnetMask"="255.255.0.0"
"DhcpServer"="130.168.253.2"
"Lease"=dword:00015180
"LeaseObtainedTime"=dword:3d84f48f
"T1"=dword:3d859d4f
"T2"=dword:3d861bdf
"LeaseTerminatesTime"=dword:3d86460f
"IPAutoconfigurationAddress"="0.0.0.0"
"IPAutoconfigurationMask"="255.255.0.0"
"IPAutoconfigurationSeed"=dword:00000000
"AddressType"=dword:00000000
"DhcpNameServer"="130.168.1.228"
"DhcpDomain"="DBLAB.compaq.com"
"DhcpSubnetMaskOpt"=hex(7):32,00,35,00,35,00,2e,00,32
,00,35,00,35,00,2e,00,30,\
  00,2e,00,30,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces\{4D85C014-5E76-48CF-
93EA-317E0F725486}]
"UseZeroBroadcast"=dword:00000000
"EnableDeadGWDetect"=dword:00000001
"EnableDHCP"=dword:00000001
"IPAddress"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,0
0,30,00,00,00,00,00
"SubnetMask"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,
00,30,00,00,00,00,00
"DefaultGatewayMetric"=hex(7):00,00
"NameServer"=""
"Domain"=""
"DisableDynamicUpdate"=dword:00000000
"EnableAdapterDomainNameRegistration"=dword:00000000
"InterfaceMetric"=dword:00000001
"TCPAllowedPorts"=hex(7):30,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00
"NTEContextList"=hex(7):30,00,78,00,30,00,30,00,30,00
,30,00,30,00,30,00,30,00,\
  34,00,00,00,00,00
"DhcpClassIdBin"=hex:
"DhcpIPAddress"=""
"DefaultGateway"=hex(7):00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces\{684FA660-D082-4A8C-
AC8C-C9D449B21686}]
"UseZeroBroadcast"=dword:00000000
"EnableDeadGWDetect"=dword:00000001
"EnableDHCP"=dword:00000001
"IPAddress"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,0
0,30,00,00,00,00,00
"SubnetMask"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,
00,30,00,00,00,00,00
"DefaultGateway"=hex(7):30,00,2e,00,30,00,2e,00,30,00
,2e,00,30,00,00,00,00,00
"DefaultGatewayMetric"=hex(7):00,00
"NameServer"="130.168.1.228"
"Domain"=""
"DisableDynamicUpdate"=dword:00000000
"EnableAdapterDomainNameRegistration"=dword:00000000
"InterfaceMetric"=dword:00000001
"TCPAllowedPorts"=hex(7):30,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00
"NTEContextList"=hex(7):30,00,78,00,30,00,30,00,30,00
,30,00,30,00,30,00,30,00,\
  33,00,00,00,00,00
"DhcpIPAddress"=""
"DhcpSubnetMask"="255.255.0.0"
"DhcpServer"="130.168.253.2"
"Lease"=dword:00015180
"LeaseObtainedTime"=dword:3d851fbb
"T1"=dword:3d85c87b
"T2"=dword:3d86470b
"LeaseTerminatesTime"=dword:3d86713b
"IPAutoconfigurationAddress"="0.0.0.0"
"IPAutoconfigurationMask"="255.255.0.0"
"IPAutoconfigurationSeed"=dword:00000000
"AddressType"=dword:00000000
"Hostname"="CL49"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces\{AC505C1A-6AB9-45A0-
912C-BE3D7E6EE067}]
"UseZeroBroadcast"=dword:00000000
"EnableDeadGWDetect"=dword:00000001
"EnableDHCP"=dword:00000000
"IPAddress"=hex(7):31,00,33,00,30,00,2e,00,31,00,37,0
0,32,00,2e,00,31,00,31,00,\
  2e,00,32,00,00,00,00,00
"SubnetMask"=hex(7):32,00,35,00,35,00,2e,00,32,00,35,
00,35,00,2e,00,30,00,2e,\
  00,30,00,00,00,00,00
"DefaultGateway"=hex(7):00,00
"DefaultGatewayMetric"=hex(7):00,00
"NameServer"=""
"Domain"=""
"DisableDynamicUpdate"=dword:00000000
"EnableAdapterDomainNameRegistration"=dword:00000000
"InterfaceMetric"=dword:00000001
"TCPAllowedPorts"=hex(7):30,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00
"NTEContextList"=hex(7):30,00,78,00,30,00,30,00,30,00
,30,00,30,00,30,00,30,00,\
  32,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces\{D29EEFAD-6A3D-44FF-
9FF1-B0468CF05E8E}]
"UseZeroBroadcast"=dword:00000000
"EnableDeadGWDetect"=dword:00000001
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
"EnableDHCP"=dword:00000000
"IPAddress"=hex(7):31,00,33,00,30,00,2e,00,31,00,36,0
0,38,00,2e,00,34,00,30,00,\
  2e,00,32,00,00,00,00,00
"SubnetMask"=hex(7):32,00,35,00,35,00,2e,00,32,00,35,
00,35,00,2e,00,30,00,2e,\
  00,30,00,00,00,00,00
"DefaultGateway"=hex(7):00,00
"DefaultGatewayMetric"=hex(7):00,00
"NameServer"="130.168.1.228,130.168.1.232"
"Domain"=""
"DisableDynamicUpdate"=dword:00000000
"EnableAdapterDomainNameRegistration"=dword:00000000
"InterfaceMetric"=dword:00000001
"TCPAllowedPorts"=hex(7):30,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00
"NTEContextList"=hex(7):30,00,78,00,30,00,30,00,30,00
,30,00,30,00,30,00,30,00,\
  33,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Interfaces\{D90E04F2-3AD9-4F98-
9464-751E106D7E6A}]
"UseZeroBroadcast"=dword:00000000
"EnableDHCP"=dword:00000000
"IPAddress"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,0
0,30,00,00,00,00,00
"SubnetMask"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,
00,30,00,00,00,00,00
"DefaultGateway"=hex(7):00,00
"EnableDeadGWDetect"=dword:00000001
"DontAddDefaultGateway"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\PersistentRoutes]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Parameters\Winsock]
"UseDelayedAcceptance"=dword:00000000
"HelperDllName"=hex(2):25,00,53,00,79,00,73,00,74,00,
65,00,6d,00,52,00,6f,00,\

6f,00,74,00,25,00,5c,00,53,00,79,00,73,00,74,00,65,00
,6d,00,33,00,32,00,5c,\

00,77,00,73,00,68,00,74,00,63,00,70,00,69,00,70,00,2e
,00,64,00,6c,00,6c,00,\
  00,00
"MaxSockAddrLength"=dword:00000010
"MinSockAddrLength"=dword:00000010
"Mapping"=hex:0b,00,00,00,03,00,00,00,02,00,00,00,01,
00,00,00,06,00,00,00,02,\

00,00,00,01,00,00,00,00,00,00,00,02,00,00,00,00,00,00
,00,06,00,00,00,00,00,\

00,00,00,00,00,00,06,00,00,00,00,00,00,00,01,00,00,00
,06,00,00,00,02,00,00,\

00,02,00,00,00,11,00,00,00,02,00,00,00,02,00,00,00,00
,00,00,00,02,00,00,00,\

00,00,00,00,11,00,00,00,00,00,00,00,00,00,00,11,00
,00,00,00,00,00,00,02,\

00,00,00,11,00,00,00,02,00,00,00,03,00,00,00,00,00,00
,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Performance]
"Close"="CloseTcpIpPerformanceData"
"Collect"="CollectTcpIpPerformanceData"
"Library"="Perfctrs.dll"
"Open"="OpenTcpIpPerformanceData"
"WbemAdapFileTime"=hex:00,a0,38,ed,84,36,c3,01
"WbemAdapFileSize"=dword:0000a510
"WbemAdapStatus"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Security]
"Security"=hex:01,00,14,80,a0,00,00,00,ac,00,00,00,14
,00,00,00,30,00,00,00,02,\

00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00
,00,00,00,00,01,00,00,\

00,00,02,00,70,00,04,00,00,00,00,00,18,00,fd,01,02,00
,01,01,00,00,00,00,00,\

05,12,00,00,00,02,00,00,00,00,00,1c,00,ff,01,0f,00,01
,02,00,00,00,00,00,05,\

20,00,00,00,20,02,00,00,03,00,00,00,00,00,18,00,8d,01
,02,00,01,01,00,00,00,\

00,00,05,0b,00,00,00,20,02,00,00,00,00,1c,00,fd,01,02
,00,01,02,00,00,00,00,\

00,05,20,00,00,00,00,23,02,00,00,03,00,00,00,01,01,00,00
,00,00,00,05,12,00,00,\
  00,01,01,00,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\ServiceProvider]
"Class"=dword:00000008
"DnsPriority"=dword:000007d0
"HostsPriority"=dword:000001f4
"LocalPriority"=dword:000001f3
"ProviderPath"=hex(2):25,00,53,00,79,00,73,00,74,00,6
5,00,6d,00,52,00,6f,00,6f,\

00,74,00,25,00,5c,00,53,00,79,00,73,00,74,00,65,00,6d
,00,33,00,32,00,5c,00,\

77,00,73,00,6f,00,63,00,6b,00,33,00,32,00,2e,00,64,00
,6c,00,6c,00,00,00
"NetbtPriority"=dword:000007d1
"Name"="TCP/IP"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Enum]
"0"="Root\\LEGACY_TCPIP\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
```

System Summary

```
System Information report written at: 09/06/05
16:45:35
System Name: FQ
[System Summary]

Item      Value
OS Name   Microsoft(R) Windows(R) Server 2003,
Enterprise Edition
Version   5.2.3790 Service Pack 1 Build 3790
Other OS Description          Not Available
OS Manufacturer     Microsoft Corporation
System Name         FQ
System Manufacturer HP
System Model        ProLiant DL385 G1
System Type         X86-based PC
Processor x86 Family 15 Model 33 Stepping 2
AuthenticAMD ~2405 Mhz
Processor x86 Family 15 Model 33 Stepping 2
AuthenticAMD ~2405 Mhz
Processor x86 Family 15 Model 33 Stepping 2
AuthenticAMD ~2405 Mhz
Processor x86 Family 15 Model 33 Stepping 2
AuthenticAMD ~2405 Mhz
BIOS Version/Date   HP A05, 8/9/2005
SMBIOS Version      2.3
Windows Directory   C:\WINDOWS
System Directory    C:\WINDOWS\system32
Boot Device         \Device\HarddiskVolume1
Locale    United States
Hardware Abstraction Layer    Version =
"5.2.3790.1830 (srv03_sp1_rtm.050324-1447)"
User Name Not Available
Time Zone Central Daylight Time
Total Physical Memory         32,599.29 MB
Available Physical Memory     3.35 GB
Total Virtual Memory          1.48 GB
Available Virtual Memory      1.37 GB
Page File Space     2.00 GB
Page File C:\pagefile.sys

[Hardware Resources]



[Conflicts/Sharing]

Resource  Device
I/O Port 0x00000000-0x000003AF          PCI bus
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
I/O Port 0x00000000-0x000003AF          Direct memory
access controller

I/O Port 0x000003C0-0x000003DF          PCI bus
I/O Port 0x000003C0-0x000003DF          PCI standard
PCI-to-PCI bridge
I/O Port 0x000003C0-0x000003DF          RAGE XL PCI
Family (Microsoft Corporation)

Memory Address 0xF7E00000-0xF7FFFFFF    PCI bus
Memory Address 0xF7E00000-0xF7FFFFFF    PCI standard
PCI-to-PCI bridge

I/O Port 0x00006000-0x00007FFF          PCI bus
I/O Port 0x00006000-0x00007FFF          PCI standard
PCI-to-PCI bridge
I/O Port 0x00006000-0x00007FFF          QLogic Fibre
Channel Adapter

I/O Port 0x00005000-0x00005FFF          PCI standard
PCI-to-PCI bridge
I/O Port 0x00005000-0x00005FFF          Smart Array
6i

I/O Port 0x000000A0-0x000000A1          Motherboard
resources
I/O Port 0x000000A0-0x000000A1          Programmable
interrupt controller

IRQ 19    Standard OpenHCD USB Host Controller
IRQ 19    Standard OpenHCD USB Host Controller

Memory Address 0xA0000-0xBFFFF          PCI bus
Memory Address 0xA0000-0xBFFFF          PCI standard
PCI-to-PCI bridge
Memory Address 0xA0000-0xBFFFF          RAGE XL PCI
Family (Microsoft Corporation)

I/O Port 0x00007000-0x00007FFF          PCI standard
PCI-to-PCI bridge
I/O Port 0x00007000-0x00007FFF          QLogic Fibre
Channel Adapter

Memory Address 0xF5F00000-0xF7DFFFFF    PCI bus
Memory Address 0xF5F00000-0xF7DFFFFF    PCI standard
PCI-to-PCI bridge

I/O Port 0x000003B0-0x000003BB          PCI bus
I/O Port 0x000003B0-0x000003BB          PCI standard
PCI-to-PCI bridge
I/O Port 0x000003B0-0x000003BB          RAGE XL PCI
Family (Microsoft Corporation)

I/O Port 0x00004000-0x00004FFF          PCI standard
PCI-to-PCI bridge
I/O Port 0x00004000-0x00004FFF          Base System
Device

I/O Port 0x00000020-0x00000021          Motherboard
resources

I/O Port 0x00000020-0x00000021          Programmable
interrupt controller


[DMA]

Resource  Device    Status
Channel 7 Direct memory access controller         OK

Channel 2 Standard floppy disk controller         OK


[Forced Hardware]

Device    PNP Device ID

[I/O]

Resource  Device    Status
0x00000000-0x000003AF         PCI bus   OK
0x00000000-0x000003AF         Direct memory access
controller          OK
0x000003B0-0x000003BB         PCI bus   OK
0x000003B0-0x000003BB         PCI standard PCI-to-PCI
bridge    OK
0x000003B0-0x000003BB         RAGE XL PCI Family
(Microsoft Corporation)       OK
0x000003C0-0x000003DF         PCI bus   OK
0x000003C0-0x000003DF         PCI standard PCI-to-PCI
bridge    OK
0x000003C0-0x000003DF         RAGE XL PCI Family
(Microsoft Corporation)       OK
0x000003E0-0x00000FFF         PCI bus   OK
0x00001000-0x00005FFF         PCI bus   OK
0x00004000-0x00004FFF         PCI standard PCI-to-PCI
bridge    OK
0x00004000-0x00004FFF         Base System Device  OK

0x00004800-0x000048FF         Base System Device  OK

0x00004400-0x000044FF         RAGE XL PCI Family
(Microsoft Corporation)       OK
0x00000A79-0x00000A79         ISAPNP Read Data Port
          OK
0x00000279-0x00000279         ISAPNP Read Data Port
          OK
0x00000274-0x00000277         ISAPNP Read Data Port
          OK
0x00000020-0x00000021         Motherboard resources
          OK
0x00000020-0x00000021         Programmable interrupt
controller          OK
0x00000050-0x00000051         Motherboard resources
          OK
0x00000092-0x00000092         Motherboard resources
          OK
0x000000A0-0x000000A1         Motherboard resources
          OK
0x000000A0-0x000000A1         Programmable interrupt
controller          OK

0x000000F0-0x000000F1         Motherboard resources
          OK
0x00000230-0x00000233         Motherboard resources
          OK
0x00000260-0x00000267         Motherboard resources
          OK
0x000004D0-0x000004D1         Motherboard resources
          OK
0x00000800-0x0000081F         Motherboard resources
          OK
0x00000840-0x0000085F         Motherboard resources
          OK
0x00000900-0x00000903         Motherboard resources
          OK
0x00000904-0x00000907         Motherboard resources
          OK
0x00000908-0x0000090B         Motherboard resources
          OK
0x0000090C-0x0000092E         Motherboard resources
          OK
0x0000092F-0x0000092F         Motherboard resources
          OK
0x00000930-0x000009FF         Motherboard resources
          OK
0x00000C80-0x00000C87         Motherboard resources
          OK
0x00000CF9-0x00000CF9         Motherboard resources
          OK
0x00000040-0x00000043         System timer        OK

0x00000080-0x0000008F         Direct memory access
controller          OK
0x000000C0-0x000000DF         Direct memory access
controller          OK
0x00000061-0x00000061         System speaker      OK

0x00000060-0x00000060         Standard 101/102-Key or
Microsoft Natural PS/2 Keyboard         OK
0x00000064-0x00000064         Standard 101/102-Key or
Microsoft Natural PS/2 Keyboard         OK
0x0000002E-0x0000002F         Extended IO Bus     OK

0x00000220-0x00000223         Extended IO Bus     OK

0x00000240-0x0000025F         Extended IO Bus     OK

0x00000070-0x00000073         Extended IO Bus     OK

0x000003F8-0x000003FF         Communications Port
(COM1)    OK
0x000003F0-0x000003F5         Standard floppy disk
controller          OK
0x000003F7-0x000003F7         Standard floppy disk
controller          OK
0x00002000-0x0000200F         Standard Dual Channel
PCI IDE Controller  OK
0x000001F0-0x000001F7         Primary IDE Channel OK

0x000003F6-0x000003F6         Primary IDE Channel OK
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
0x00000170-0x00000177         Secondary IDE Channel
        OK
0x00000376-0x00000376         Secondary IDE Channel
        OK
0x00005000-0x00005FFF         PCI standard PCI-to-PCI
bridge    OK
0x00005000-0x00005FFF         Smart Array 6i      OK

0x00006000-0x00007FFF         PCI bus   OK
0x00006000-0x00007FFF         PCI standard PCI-to-PCI
bridge    OK
0x00006000-0x00007FFF         QLogic Fibre Channel
Adapter   OK
0x00006400-0x000064FF         QLogic Fibre Channel
Adapter   OK
0x00006800-0x000068FF         QLogic Fibre Channel
Adapter   OK
0x00006C00-0x00006CFF         QLogic Fibre Channel
Adapter   OK
0x00007000-0x00007FFF         PCI standard PCI-to-PCI
bridge    OK
0x00007000-0x00007FFF         QLogic Fibre Channel
Adapter   OK
0x00007400-0x000074FF         QLogic Fibre Channel
Adapter   OK

[IRQs]

Resource  Device    Status
IRQ 9     Microsoft ACPI-Compliant System         OK

IRQ 19    Standard OpenHCD USB Host Controller    OK

IRQ 19    Standard OpenHCD USB Host Controller    OK

IRQ 5     Base System Device  OK
IRQ 7     Base System Device  OK
IRQ 0     System timer        OK
IRQ 1     Standard 101/102-Key or Microsoft Natural
PS/2 Keyboard       OK
IRQ 12    PS/2 Compatible Mouse         OK
IRQ 4     Communications Port (COM1)    OK
IRQ 6     Standard floppy disk controller         OK

IRQ 14    Primary IDE Channel OK
IRQ 24    Smart Array 6i      OK
IRQ 28    HP NC7782 Gigabit Server Adapter        OK

IRQ 29    HP NC7782 Gigabit Server Adapter #2     OK

IRQ 34    QLogic Fibre Channel Adapter  OK
IRQ 35    QLogic Fibre Channel Adapter  OK
IRQ 32    QLogic Fibre Channel Adapter  OK
IRQ 33    QLogic Fibre Channel Adapter  OK
IRQ 36    QLogic Fibre Channel Adapter  OK
IRQ 37    QLogic Fibre Channel Adapter  OK

[Memory]

Resource  Device    Status
0xA0000-0xBFFFF     PCI bus   OK
0xA0000-0xBFFFF     PCI standard PCI-to-PCI bridge
        OK
0xA0000-0xBFFFF     RAGE XL PCI Family (Microsoft
Corporation)        OK
0xF5F00000-0xF7DFFFFF         PCI bus   OK
0xF5F00000-0xF7DFFFFF         PCI standard PCI-to-PCI
bridge    OK
0xF7BF0000-0xF7BF0FFF         Standard OpenHCD USB
Host Controller     OK
0xF7BE0000-0xF7BE0FFF         Standard OpenHCD USB
Host Controller     OK
0xF7BB0000-0xF7BB01FF         Base System Device  OK

0xF7BA0000-0xF7BA07FF         Base System Device  OK

0xF7B90000-0xF7B91FFF         Base System Device  OK

0xF7B00000-0xF7B7FFFF         Base System Device  OK

0xF6000000-0xF6FFFFFF         RAGE XL PCI Family
(Microsoft Corporation)       OK
0xF5FF0000-0xF5FF0FFF         RAGE XL PCI Family
(Microsoft Corporation)       OK
0xF7C00000-0xF7CFFFFF         PCI standard PCI-to-PCI
bridge    OK
0xF7CF0000-0xF7CF1FFF         Smart Array 6i      OK

0xF7C80000-0xF7CBFFFF         Smart Array 6i      OK

0xF7D00000-0xF7DFFFFF         PCI standard PCI-to-PCI
bridge    OK
0xF7DF0000-0xF7DFFFFF         HP NC7782 Gigabit
Server Adapter      OK
0xF7DE0000-0xF7DEFFFF         HP NC7782 Gigabit
Server Adapter #2   OK
0xF7E00000-0xF7FFFFFF         PCI bus   OK
0xF7E00000-0xF7FFFFFF         PCI standard PCI-to-PCI
bridge    OK
0xF7EF0000-0xF7EF0FFF         QLogic Fibre Channel
Adapter   OK
0xF7EE0000-0xF7EE0FFF         QLogic Fibre Channel
Adapter   OK
0xF7ED0000-0xF7ED0FFF         QLogic Fibre Channel
Adapter   OK
0xF7EC0000-0xF7EC0FFF         QLogic Fibre Channel
Adapter   OK
0xF7F00000-0xF7FFFFFF         PCI standard PCI-to-PCI
bridge    OK
0xF7FF0000-0xF7FF0FFF         QLogic Fibre Channel
Adapter   OK
0xF7FE0000-0xF7FE0FFF         QLogic Fibre Channel
Adapter   OK

[Components]



[Multimedia]

[Audio Codecs]

CODEC     Manufacturer        Description
          Status    File      Version   Size
          Creation Date
c:\windows\system32\imaadp32.acm        Microsoft
Corporation                   OK
          C:\WINDOWS\system32\IMAADP32.ACM
          5.2.3790.0 (srv03_rtm.030324-2048)
          15.50 KB (15,872 bytes)       3/25/2003
6:00 AM
c:\windows\system32\l3codeca.acm        Fraunhofer
Institut Integrierte Schaltungen IIS    Fraunhofer
IIS MPEG Layer-3 Codec        OK
          C:\WINDOWS\system32\L3CODECA.ACM        1,
9, 0, 0305          284.00 KB (290,816 bytes)
          3/25/2003 6:00 AM
c:\windows\system32\sl_anet.acm         Sipro Lab
Telecom Inc.        Sipro Lab Telecom Audio Codec OK
          C:\WINDOWS\system32\SL_ANET.ACM
          3.02      84.00 KB (86,016 bytes)
          3/25/2003 6:00 AM
c:\windows\system32\msaud32.acm         Microsoft
Corporation         Windows Media Audio Codec     OK
          C:\WINDOWS\system32\MSAUD32.ACM
          8.00.00.4487        288.00 KB (294,912
bytes)    3/25/2003 6:00 AM
c:\windows\system32\msg723.acm          Microsoft
Corporation                   OK
          C:\WINDOWS\system32\MSG723.ACM
          5.2.3790.1830       120.00 KB (122,880
bytes)    6/3/2005 2:15 PM
c:\windows\system32\tssoft32.acm        DSP GROUP,
INC.                OK
          C:\WINDOWS\system32\TSSOFT32.ACM
          1.01      9.50 KB (9,728 bytes)
          3/25/2003 6:00 AM
c:\windows\system32\msadp32.acm         Microsoft
Corporation                   OK
          C:\WINDOWS\system32\MSADP32.ACM
          5.2.3790.0 (srv03_rtm.030324-2048)
          14.50 KB (14,848 bytes)       3/25/2003
6:00 AM
c:\windows\system32\msg711.acm          Microsoft
Corporation                   OK
          C:\WINDOWS\system32\MSG711.ACM
          5.2.3790.0 (srv03_rtm.030324-2048)
          10.00 KB (10,240 bytes)       3/25/2003
6:00 AM
c:\windows\system32\msgsm32.acm         Microsoft
Corporation                   OK
          C:\WINDOWS\system32\MSGSM32.ACM
          5.2.3790.0 (srv03_rtm.030324-2048)
          20.50 KB (20,992 bytes)       3/25/2003
6:00 AM

[Video Codecs]

CODEC     Manufacturer        Description
          Status    File      Version   Size
          Creation Date
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
c:\windows\system32\msh261.drv          Microsoft
Corporation                  OK
         C:\WINDOWS\system32\MSH261.DRV
         5.2.3790.1830       184.00 KB (188,416
bytes)    6/3/2005 2:15 PM
c:\windows\system32\tsbyuv.dll          Microsoft
Corporation                  OK
         C:\WINDOWS\system32\TSBYUV.DLL
         5.2.3790.0 (srv03_rtm.030324-2048)
         8.00 KB (8,192 bytes)          3/24/2003
7:50 PM
c:\windows\system32\msyuv.dll Microsoft Corporation
                  OK
         C:\WINDOWS\system32\MSYUV.DLL 5.2.3790.0
(srv03_rtm.030324-2048)       16.50 KB (16,896 bytes)
         3/24/2003 7:49 PM
c:\windows\system32\msvidc32.dll        Microsoft
Corporation                  OK
         C:\WINDOWS\system32\MSVIDC32.DLL
         5.2.3790.0 (srv03_rtm.030324-2048)
         26.50 KB (27,136 bytes)        3/25/2003
6:00 AM
c:\windows\system32\msrle32.dll         Microsoft
Corporation                  OK
         C:\WINDOWS\system32\MSRLE32.DLL
         5.2.3790.0 (srv03_rtm.030324-2048)
         10.50 KB (10,752 bytes)        3/25/2003
6:00 AM
c:\windows\system32\iyuv_32.dll         Microsoft
Corporation                  OK
         C:\WINDOWS\system32\IYUV_32.DLL
         5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
         46.50 KB (47,616 bytes)        6/3/2005 2:15
PM
c:\windows\system32\msh263.drv          Microsoft
Corporation                  OK
         C:\WINDOWS\system32\MSH263.DRV
         5.2.3790.1830       288.00 KB (294,912
bytes)    6/3/2005 2:15 PM

[CD-ROM]

Item      Value
Drive     D:
Description         CD-ROM Drive
Media Loaded        No
Media Type          CD-ROM
Name      COMPAQ CD-ROM SN-124
Manufacturer        (Standard CD-ROM drives)
Status    OK
Transfer Rate       Not Available
SCSI Target ID      0
PNP Device ID       IDE\CDROMCOMPAQ_CD-ROM_SN-
124_____________________N104____\5&2DC47F1C&0&0.0.0

Driver    c:\windows\system32\drivers\cdrom.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 51.00 KB
(52,224 bytes), 3/25/2003 6:00 AM)

[Sound Device]

Item      Value

[Display]

Item      Value
Name      RAGE XL PCI Family (Microsoft Corporation)

PNP Device ID
          PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_2
7\4&12365AD0&0&1818
Adapter Type        ATI RAGE XL PCI (B41), ATI
Technologies Inc. compatible
Adapter Description RAGE XL PCI Family (Microsoft
Corporation)
Adapter RAM         8.00 MB (8,388,608 bytes)
Installed Drivers   ati2drad.dll
Driver Version      5.10.3663.6013
INF File  atiixpad.inf (ati2mpad section)
Color Planes        1
Color Table Entries 4294967296
Resolution          1024 x 768 x 60 hertz
Bits/Pixel          32
Memory Address      0xF6000000-0xF6FFFFFF
I/O Port  0x00004400-0x000044FF
Memory Address      0xF5FF0000-0xF5FF0FFF
I/O Port  0x000003B0-0x000003BB
I/O Port  0x000003C0-0x000003DF
Memory Address      0xA0000-0xBFFFF
Driver    c:\windows\system32\drivers\ati2mpad.sys
(5.10.3663.6013, 335.38 KB (343,424 bytes), 6/3/2005
6:08 AM)

[Infrared]

Item      Value

[Input]



[Keyboard]

Item      Value
Description         Standard 101/102-Key or Microsoft
Natural PS/2 Keyboard
Name      Enhanced (101- or 102-key)
Layout    00000409
PNP Device ID       ACPI\PNP0303\4&1C7DEDE8&0
Number of Function Keys       12
I/O Port  0x00000060-0x00000060
I/O Port  0x00000064-0x00000064
IRQ Channel         IRQ 1
Driver    c:\windows\system32\drivers\i8042prt.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 54.50 KB
(55,808 bytes), 3/25/2003 6:00 AM)

[Pointing Device]

Item      Value
Hardware Type       PS/2 Compatible Mouse
Number of Buttons   5
Status    OK
PNP Device ID       ACPI\PNP0F13\4&1C7DEDE8&0
Power Management Supported    No
Double Click Threshold        6
Handedness          Right Handed Operation
IRQ Channel         IRQ 12
Driver    c:\windows\system32\drivers\i8042prt.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 54.50 KB
(55,808 bytes), 3/25/2003 6:00 AM)

[Modem]

Item      Value

[Network]



[Adapter]

Item      Value
Name      [00000001] RAS Async Adapter
Adapter Type        Not Available
Product Type        RAS Async Adapter
Installed Yes
PNP Device ID       Not Available
Last Reset          9/2/2005 2:03 PM
Index     1
Service Name        AsyncMac
IP Address          Not Available
IP Subnet Not Available
Default IP Gateway  Not Available
DHCP Enabled        No
DHCP Server         Not Available
DHCP Lease Expires  Not Available
DHCP Lease Obtained Not Available
MAC Address         Not Available

Name      [00000002] WAN Miniport (L2TP)
Adapter Type        Not Available
Product Type        WAN Miniport (L2TP)
Installed Yes
PNP Device ID       ROOT\MS_L2TPMINIPORT\0000
Last Reset          9/2/2005 2:03 PM
Index     2
Service Name        Rasl2tp
IP Address          Not Available
IP Subnet Not Available
Default IP Gateway  Not Available
DHCP Enabled        No
DHCP Server         Not Available
DHCP Lease Expires  Not Available
DHCP Lease Obtained Not Available
MAC Address         Not Available
Driver    c:\windows\system32\drivers\rasl2tp.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 66.00 KB
(67,584 bytes), 3/25/2003 6:00 AM)

Name      [00000003] WAN Miniport (PPTP)
Adapter Type        Wide Area Network (WAN)
Product Type        WAN Miniport (PPTP)
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Installed Yes
PNP Device ID       ROOT\MS_PPTPMINIPORT\0000
Last Reset          9/2/2005 2:03 PM
Index     3
Service Name        PptpMiniport
IP Address          Not Available
IP Subnet Not Available
Default IP Gateway  Not Available
DHCP Enabled        No
DHCP Server         Not Available
DHCP Lease Expires  Not Available
DHCP Lease Obtained Not Available
MAC Address         50:50:54:50:30:30
Driver    c:\windows\system32\drivers\raspptp.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 61.00 KB
(62,464 bytes), 3/25/2003 6:00 AM)

Name      [00000004] WAN Miniport (PPPOE)
Adapter Type        Wide Area Network (WAN)
Product Type        WAN Miniport (PPPOE)
Installed Yes
PNP Device ID       ROOT\MS_PPPOEMINIPORT\0000
Last Reset          9/2/2005 2:03 PM
Index     4
Service Name        RasPppoe
IP Address          Not Available
IP Subnet Not Available
Default IP Gateway  Not Available
DHCP Enabled        No
DHCP Server         Not Available
DHCP Lease Expires  Not Available
DHCP Lease Obtained Not Available
MAC Address         33:50:6F:45:30:30
Driver    c:\windows\system32\drivers\raspppoe.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 40.00 KB
(40,960 bytes), 3/25/2003 6:00 AM)

Name      [00000005] Direct Parallel
Adapter Type        Not Available
Product Type        Direct Parallel
Installed Yes
PNP Device ID       ROOT\MS_PTIMINIPORT\0000
Last Reset          9/2/2005 2:03 PM
Index     5
Service Name        Raspti
IP Address          Not Available
IP Subnet Not Available
Default IP Gateway  Not Available
DHCP Enabled        No
DHCP Server         Not Available
DHCP Lease Expires  Not Available
DHCP Lease Obtained Not Available
MAC Address         Not Available
Driver    c:\windows\system32\drivers\raspti.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 19.50 KB
(19,968 bytes), 3/25/2003 6:00 AM)

Name      [00000006] WAN Miniport (IP)
Adapter Type        Not Available
Product Type        WAN Miniport (IP)
Installed Yes
PNP Device ID       ROOT\MS_NDISWANIP\0000
Last Reset          9/2/2005 2:03 PM
Index     6
Service Name        NdisWan
IP Address          Not Available
IP Subnet Not Available
Default IP Gateway  Not Available
DHCP Enabled        No
DHCP Server         Not Available
DHCP Lease Expires  Not Available
DHCP Lease Obtained Not Available
MAC Address         Not Available
Driver    c:\windows\system32\drivers\ndiswan.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 91.00 KB
(93,184 bytes), 3/25/2003 6:00 AM)

Name      [00000007] HP NC7782 Gigabit Server Adapter

Adapter Type        Ethernet 802.3
Product Type        HP NC7782 Gigabit Server Adapter

Installed Yes
PNP Device ID
          PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
0\4&24B9E852&0&3040
Last Reset          9/2/2005 2:03 PM
Index     7
Service Name        q57w2k
IP Address          130.168.208.16
IP Subnet 255.255.0.0
Default IP Gateway  Not Available
DHCP Enabled        No
DHCP Server         Not Available
DHCP Lease Expires  Not Available
DHCP Lease Obtained Not Available
MAC Address         00:14:38:4B:0B:1C
Memory Address      0xF7DF0000-0xF7DFFFFF
IRQ Channel         IRQ 28
Driver    c:\windows\system32\drivers\q57xp32.sys
(7.103.0.0 built by: WinDDK, 125.25 KB (128,256
bytes), 6/3/2005 11:51 AM)

Name      [00000008] HP NC7782 Gigabit Server Adapter

Adapter Type        Ethernet 802.3
Product Type        HP NC7782 Gigabit Server Adapter

Installed Yes
PNP Device ID
          PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
0\4&24B9E852&0&3140
Last Reset          9/2/2005 2:03 PM
Index     8
Service Name        q57w2k
IP Address          130.169.208.16, 130.14.208.16
IP Subnet 255.255.0.0, 255.255.0.0
Default IP Gateway  Not Available
DHCP Enabled        No
DHCP Server         Not Available
DHCP Lease Expires  Not Available
DHCP Lease Obtained Not Available
MAC Address         00:14:38:4B:0B:1B
Memory Address      0xF7DE0000-0xF7DEFFFF
IRQ Channel         IRQ 29
Driver    c:\windows\system32\drivers\q57xp32.sys
(7.103.0.0 built by: WinDDK, 125.25 KB (128,256
bytes), 6/3/2005 11:51 AM)

[Protocol]

Item      Value
Name      MSAFD Tcpip [TCP/IP]
Connectionless Service        No
Guarantees Delivery Yes
Guarantees Sequencing         Yes
Maximum Address Size          16 bytes
Maximum Message Size          0 bytes
Message Oriented    No
Minimum Address Size          16 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         No
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       Yes
Supports Graceful Closing     Yes
Supports Guaranteed Bandwidth No
Supports Multicasting         No

Name      MSAFD Tcpip [UDP/IP]
Connectionless Service        Yes
Guarantees Delivery No
Guarantees Sequencing         No
Maximum Address Size          16 bytes
Maximum Message Size          63.93 KB (65,467 bytes)

Message Oriented    Yes
Minimum Address Size          16 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         Yes
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         Yes

Name      RSVP UDP Service Provider
Connectionless Service        Yes
Guarantees Delivery No
Guarantees Sequencing         No
Maximum Address Size          16 bytes
Maximum Message Size          63.93 KB (65,467 bytes)

Message Oriented    Yes
Minimum Address Size          16 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         Yes
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption Yes
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         Yes

Name      RSVP TCP Service Provider
Connectionless Service        No
Guarantees Delivery Yes
Guarantees Sequencing         Yes
Maximum Address Size          16 bytes
Maximum Message Size          0 bytes
Message Oriented    No
Minimum Address Size          16 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         No
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption Yes
Supports Expedited Data       Yes
Supports Graceful Closing     Yes
Supports Guaranteed Bandwidth No
Supports Multicasting         No

Name      MSAFD NetBIOS
[\Device\NetBT_Tcpip_{F51A1219-0221-4BA0-A849-
71726529EF13}] SEQPACKET 3
Connectionless Service        No
Guarantees Delivery Yes
Guarantees Sequencing         Yes
Maximum Address Size          20 bytes
Maximum Message Size          62.50 KB (64,000 bytes)

Message Oriented    Yes
Minimum Address Size          20 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         No
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         No

Name      MSAFD NetBIOS
[\Device\NetBT_Tcpip_{F51A1219-0221-4BA0-A849-
71726529EF13}] DATAGRAM 3
Connectionless Service        Yes
Guarantees Delivery No
Guarantees Sequencing         No
Maximum Address Size          20 bytes
Maximum Message Size          62.50 KB (64,000 bytes)

Message Oriented    Yes
Minimum Address Size          20 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         Yes
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         No

Name      MSAFD NetBIOS
[\Device\NetBT_Tcpip_{B5510EE5-8835-4E6F-9D22-
AD338D7C493F}] SEQPACKET 0
Connectionless Service        No
Guarantees Delivery Yes
Guarantees Sequencing         Yes
Maximum Address Size          20 bytes
Maximum Message Size          62.50 KB (64,000 bytes)

Message Oriented    Yes
Minimum Address Size          20 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         No
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         No

Name      MSAFD NetBIOS
[\Device\NetBT_Tcpip_{B5510EE5-8835-4E6F-9D22-
AD338D7C493F}] DATAGRAM 0
Connectionless Service        Yes
Guarantees Delivery No
Guarantees Sequencing         No
Maximum Address Size          20 bytes
Maximum Message Size          62.50 KB (64,000 bytes)

Message Oriented    Yes
Minimum Address Size          20 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         Yes
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         No

Name      MSAFD NetBIOS
[\Device\NetBT_Tcpip_{390945C8-0220-488D-9601-
66BFA0BE9122}] SEQPACKET 1
Connectionless Service        No
Guarantees Delivery Yes
Guarantees Sequencing         Yes
Maximum Address Size          20 bytes
Maximum Message Size          62.50 KB (64,000 bytes)

Message Oriented    Yes
Minimum Address Size          20 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         No
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         No

Name      MSAFD NetBIOS
[\Device\NetBT_Tcpip_{390945C8-0220-488D-9601-
66BFA0BE9122}] DATAGRAM 1
Connectionless Service        Yes
Guarantees Delivery No
Guarantees Sequencing         No
Maximum Address Size          20 bytes
Maximum Message Size          62.50 KB (64,000 bytes)

Message Oriented    Yes
Minimum Address Size          20 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         Yes
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         No

Name      MSAFD NetBIOS
[\Device\NetBT_Tcpip_{64C1BF7D-4124-4B0B-95CF-
BF57887140E4}] SEQPACKET 2
Connectionless Service        No
Guarantees Delivery Yes
Guarantees Sequencing         Yes
Maximum Address Size          20 bytes
Maximum Message Size          62.50 KB (64,000 bytes)

Message Oriented    Yes
Minimum Address Size          20 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         No
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         No

Name      MSAFD NetBIOS
[\Device\NetBT_Tcpip_{64C1BF7D-4124-4B0B-95CF-
BF57887140E4}] DATAGRAM 2
Connectionless Service        Yes
Guarantees Delivery No
Guarantees Sequencing         No
Maximum Address Size          20 bytes
Maximum Message Size          62.50 KB (64,000 bytes)

Message Oriented    Yes
Minimum Address Size          20 bytes
Pseudo Stream Oriented        No
Supports Broadcasting         Yes
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Supports Connect Data         No
Supports Disconnect Data      No
Supports Encryption No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting         No

[WinSock]

Item      Value
File      c:\windows\system32\winsock.dll
Size      2.80 KB (2,864 bytes)
Version   3.10

File      c:\windows\system32\wsock32.dll
Size      22.00 KB (22,528 bytes)
Version   5.2.3790.0 (srv03_rtm.030324-2048)

[Ports]



[Serial]

Item      Value
Name      Communications Port (COM1)
Status    OK
PNP Device ID       ACPI\PNP0501\0
Maximum Input Buffer Size     Not Available
Maximum Output Buffer Size    Not Available
Settable Baud Rate  Not Available
Settable Data Bits  Not Available
Settable Flow Control         Not Available
Settable Parity     Not Available
Settable Parity Check         Not Available
Settable Stop Bits  Not Available
Settable RLSD       Not Available
Supports RLSD       Not Available
Supports 16 Bit Mode          Not Available
Supports Special Characters   Not Available
Baud Rate 9600
Bits/Byte 8
Stop Bits 1
Parity    None
Busy      No
Abort Read/Write on Error     Not Available
Binary Mode Enabled Not Available
Continue XMit on XOff         Not Available
CTS Outflow Control Not Available
Discard NULL Bytes  Not Available
DSR Outflow Control Not Available
DSR Sensitivity     Not Available
DTR Flow Control Type         Not Available
EOF Character       Not Available
Error Replace Character       Not Available
Error Replacement Enabled     Not Available
Event Character     Not Available
Parity Check Enabled          Yes
RTS Flow Control Type         Not Available
XOff Character      19
XOffXMit Threshold  512
XOn Character       17
XOnXMit Threshold   2048
XOnXOff InFlow Control        Not Available
XOnXOff OutFlow Control       Not Available
IRQ Channel         IRQ 4
I/O Port  0x000003F8-0x000003FF
Driver    c:\windows\system32\drivers\serial.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 64.00 KB
(65,536 bytes), 3/25/2003 6:00 AM)

[Parallel]

Item      Value

[Storage]



[Drives]

Item      Value
Drive     C:
Description         Local Fixed Disk
Compressed          No
File System         NTFS
Size      33.91 GB (36,410,552,320 bytes)
Free Space          16.90 GB (18,141,286,400 bytes)

Volume Name
Volume Serial Number          3030BA4E

Drive     D:
Description         CD-ROM Disc

Drive     E:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
Volume Name         Not Available
Volume Serial Number          Not Available

Drive     F:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
Volume Name         Not Available
Volume Serial Number          Not Available

Drive     G:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
Volume Name         Not Available
Volume Serial Number          Not Available

Drive     H:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
Volume Name         Not Available
Volume Serial Number          Not Available

Drive     I:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
Volume Name         Not Available
Volume Serial Number          Not Available

Drive     J:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
Volume Name         Not Available
Volume Serial Number          Not Available

Drive     K:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
Volume Name         Not Available
Volume Serial Number          Not Available

Drive     L:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
Volume Name         Not Available
Volume Serial Number          Not Available

Drive     M:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
Volume Name         Not Available
Volume Serial Number          Not Available

Drive     N:
Description         Local Fixed Disk
Compressed          Not Available
File System         Not Available
Size      Not Available
Free Space          Not Available
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Volume Name          Not Available
Volume Serial Number          Not Available

Drive     O:
Description          Local Fixed Disk
Compressed           Not Available
File System          Not Available
Size      Not Available
Free Space           Not Available
Volume Name          Not Available
Volume Serial Number          Not Available

Drive     P:
Description          Local Fixed Disk
Compressed           Not Available
File System          Not Available
Size      Not Available
Free Space           Not Available
Volume Name          Not Available
Volume Serial Number          Not Available

Drive     Q:
Description          Local Fixed Disk
Compressed           Not Available
File System          Not Available
Size      Not Available
Free Space           Not Available
Volume Name          Not Available
Volume Serial Number          Not Available

Drive     R:
Description          Local Fixed Disk
Compressed           Not Available
File System          Not Available
Size      Not Available
Free Space           Not Available
Volume Name          Not Available
Volume Serial Number          Not Available

Drive     S:
Description          Local Fixed Disk
Compressed           Not Available
File System          Not Available
Size      Not Available
Free Space           Not Available
Volume Name          Not Available
Volume Serial Number          Not Available

Drive     V:
Description          Network Connection
Provider Name        \\n23\c$

Drive     W:
Description          Local Fixed Disk
Compressed           No
File System          NTFS
Size      653.67 GB (701,871,333,376 bytes)
Free Space           325.45 GB (349,445,881,856 bytes)

Volume Name          Back1
Volume Serial Number          64931A61

Drive     X:
Description          Local Fixed Disk
Compressed           No
File System          NTFS
Size      653.67 GB (701,871,333,376 bytes)
Free Space           323.31 GB (347,146,702,848 bytes)

Volume Name          Back2
Volume Serial Number          E0A66D8E

Drive     Y:
Description          Local Fixed Disk
Compressed           No
File System          NTFS
Size      653.67 GB (701,871,333,376 bytes)
Free Space           325.45 GB (349,446,012,928 bytes)

Volume Name          Back3
Volume Serial Number          B8B309D3

Drive     Z:
Description          Local Fixed Disk
Compressed           No
File System          NTFS
Size      653.67 GB (701,871,333,376 bytes)
Free Space           325.45 GB (349,446,012,928 bytes)

Volume Name          Back4
Volume Serial Number          68BFD34E

[Disks]

Item      Value
Description          Disk drive
Manufacturer         (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector         512
Media Loaded         Yes
Media Type           Fixed hard disk
Partitions           1
SCSI Bus  0
SCSI Logical Unit    1
SCSI Port 7
SCSI Target ID       0
Sectors/Track        63
Size      78.12 GB (83,881,405,440 bytes)
Total Cylinders      10,198
Total Sectors        163,830,870
Total Tracks         2,600,490
Tracks/Cylinder      255
Partition Disk #15, Partition #0
Partition Size       78.12 GB (83,880,837,120 bytes)

Partition Starting Offset     65,536 bytes

Description          Disk drive
Manufacturer         (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector         512
Media Loaded         Yes
Media Type           Fixed hard disk
Partitions           1
SCSI Bus  0
SCSI Logical Unit    2
SCSI Port 7
SCSI Target ID       0
Sectors/Track        63
Size      39.06 GB (41,940,702,720 bytes)
Total Cylinders      5,099
Total Sectors        81,915,435
Total Tracks         1,300,245
Tracks/Cylinder      255
Partition Disk #16, Partition #0
Partition Size       39.06 GB (41,939,894,272 bytes)

Partition Starting Offset     65,536 bytes

Description          Disk drive
Manufacturer         (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector         512
Media Loaded         Yes
Media Type           Fixed hard disk
Partitions           1
SCSI Bus  0
SCSI Logical Unit    3
SCSI Port 7
SCSI Target ID       0
Sectors/Track        63
Size      653.68 GB (701,879,592,960 bytes)
Total Cylinders      85,332
Total Sectors        1,370,858,580
Total Tracks         21,759,660
Tracks/Cylinder      255
Partition Disk #17, Partition #0
Partition Size       653.67 GB (701,871,335,424 bytes)

Partition Starting Offset     32,256 bytes

Description          Disk drive
Manufacturer         (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector         512
Media Loaded         Yes
Media Type           Fixed hard disk
Partitions           1
SCSI Bus  0
SCSI Logical Unit    1
SCSI Port 4
SCSI Target ID       0
Sectors/Track        63
Size      78.12 GB (83,881,405,440 bytes)
Total Cylinders      10,198
Total Sectors        163,830,870
Total Tracks         2,600,490
Tracks/Cylinder      255
Partition Disk #6, Partition #0
Partition Size       78.12 GB (83,880,837,120 bytes)

Partition Starting Offset     65,536 bytes
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   2
SCSI Port 4
SCSI Target ID      0
Sectors/Track       63
Size      39.06 GB (41,940,702,720 bytes)
Total Cylinders     5,099
Total Sectors       81,915,435
Total Tracks        1,300,245
Tracks/Cylinder     255
Partition Disk #7, Partition #0
Partition Size      39.06 GB (41,939,894,272 bytes)

Partition Starting Offset     65,536 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   1
SCSI Port 5
SCSI Target ID      0
Sectors/Track       63
Size      78.12 GB (83,881,405,440 bytes)
Total Cylinders     10,198
Total Sectors       163,830,870
Total Tracks        2,600,490
Tracks/Cylinder     255
Partition Disk #8, Partition #0
Partition Size      78.12 GB (83,880,837,120 bytes)

Partition Starting Offset     65,536 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   2
SCSI Port 5
SCSI Target ID      0
Sectors/Track       63
Size      39.06 GB (41,940,702,720 bytes)
Total Cylinders     5,099
Total Sectors       81,915,435
Total Tracks        1,300,245
Tracks/Cylinder     255
Partition Disk #9, Partition #0
Partition Size      39.06 GB (41,939,894,272 bytes)

Partition Starting Offset     65,536 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   3
SCSI Port 5
SCSI Target ID      0
Sectors/Track       63
Size      653.68 GB (701,879,592,960 bytes)
Total Cylinders     85,332
Total Sectors       1,370,858,580
Total Tracks        21,759,660
Tracks/Cylinder     255
Partition Disk #10, Partition #0
Partition Size      653.67 GB (701,871,335,424 bytes)

Partition Starting Offset     32,256 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   1
SCSI Port 5
SCSI Target ID      1
Sectors/Track       63
Size      78.12 GB (83,881,405,440 bytes)
Total Cylinders     10,198
Total Sectors       163,830,870
Total Tracks        2,600,490
Tracks/Cylinder     255
Partition Disk #11, Partition #0
Partition Size      78.12 GB (83,880,837,120 bytes)

Partition Starting Offset     65,536 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   2
SCSI Port 5
SCSI Target ID      1
Sectors/Track       63
Size      39.06 GB (41,940,702,720 bytes)
Total Cylinders     5,099
Total Sectors       81,915,435
Total Tracks        1,300,245
Tracks/Cylinder     255
Partition Disk #12, Partition #0
Partition Size      39.06 GB (41,939,894,272 bytes)

Partition Starting Offset     65,536 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   1
SCSI Port 6
SCSI Target ID      0
Sectors/Track       63
Size      78.12 GB (83,881,405,440 bytes)
Total Cylinders     10,198
Total Sectors       163,830,870
Total Tracks        2,600,490
Tracks/Cylinder     255
Partition Disk #13, Partition #0
Partition Size      78.12 GB (83,880,837,120 bytes)

Partition Starting Offset     65,536 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   2
SCSI Port 6
SCSI Target ID      0
Sectors/Track       63
Size      39.06 GB (41,940,702,720 bytes)
Total Cylinders     5,099
Total Sectors       81,915,435
Total Tracks        1,300,245
Tracks/Cylinder     255
Partition Disk #14, Partition #0
Partition Size      39.06 GB (41,939,894,272 bytes)

Partition Starting Offset     65,536 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
SCSI Bus  0
SCSI Logical Unit   1
SCSI Port 2
SCSI Target ID      0
Sectors/Track       63
Size      78.12 GB (83,881,405,440 bytes)
Total Cylinders     10,198
Total Sectors       163,830,870
Total Tracks        2,600,490
Tracks/Cylinder     255
Partition Disk #0, Partition #0
Partition Size      78.12 GB (83,880,837,120 bytes)

Partition Starting Offset     65,536 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   2
SCSI Port 2
SCSI Target ID      0
Sectors/Track       63
Size      39.06 GB (41,940,702,720 bytes)
Total Cylinders     5,099
Total Sectors       81,915,435
Total Tracks        1,300,245
Tracks/Cylinder     255
Partition Disk #1, Partition #0
Partition Size      39.06 GB (41,939,894,272 bytes)

Partition Starting Offset     65,536 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   3
SCSI Port 2
SCSI Target ID      0
Sectors/Track       63
Size      653.68 GB (701,879,592,960 bytes)
Total Cylinders     85,332
Total Sectors       1,370,858,580
Total Tracks        21,759,660
Tracks/Cylinder     255
Partition Disk #2, Partition #0
Partition Size      653.67 GB (701,871,335,424 bytes)

Partition Starting Offset     32,256 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   1
SCSI Port 3
SCSI Target ID      0
Sectors/Track       63
Size      78.12 GB (83,881,405,440 bytes)
Total Cylinders     10,198
Total Sectors       163,830,870
Total Tracks        2,600,490
Tracks/Cylinder     255
Partition Disk #3, Partition #0
Partition Size      78.12 GB (83,881,373,184 bytes)

Partition Starting Offset     32,256 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   2
SCSI Port 3
SCSI Target ID      0
Sectors/Track       63
Size      39.06 GB (41,940,702,720 bytes)
Total Cylinders     5,099
Total Sectors       81,915,435
Total Tracks        1,300,245
Tracks/Cylinder     255
Partition Disk #4, Partition #0
Partition Size      39.06 GB (41,940,670,464 bytes)

Partition Starting Offset     32,256 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     COMPAQ MSA1000 VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   3
SCSI Port 3
SCSI Target ID      0
Sectors/Track       63
Size      653.68 GB (701,879,592,960 bytes)
Total Cylinders     85,332
Total Sectors       1,370,858,580
Total Tracks        21,759,660
Tracks/Cylinder     255
Partition Disk #5, Partition #0
Partition Size      653.67 GB (701,871,335,424 bytes)

Partition Starting Offset     32,256 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     HP LOGICAL VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   0
SCSI Port 8
SCSI Target ID      4
Sectors/Track       32
Size      33.91 GB (36,414,750,720 bytes)
Total Cylinders     8,716
Total Sectors       71,122,560
Total Tracks        2,222,580
Tracks/Cylinder     255
Partition Disk #18, Partition #0
Partition Size      33.91 GB (36,410,556,416 bytes)

Partition Starting Offset     16,384 bytes

Description         Disk drive
Manufacturer        (Standard disk drives)
Model     HP LOGICAL VOLUME SCSI Disk Device
Bytes/Sector        512
Media Loaded        Yes
Media Type          Fixed hard disk
Partitions          1
SCSI Bus  0
SCSI Logical Unit   0
SCSI Port 8
SCSI Target ID      5
Sectors/Track       32
Size      558.78 GB (599,986,913,280 bytes)
Total Cylinders     143,609
Total Sectors       1,171,849,440
Total Tracks        36,620,295
Tracks/Cylinder     255
Partition Disk #19, Partition #0
Partition Size      558.78 GB (599,986,798,592 bytes)

Partition Starting Offset     65,536 bytes

[SCSI]

Item      Value
Name      Smart Array 6i
Manufacturer        Hewlett-Packard Company
Status    OK
PNP Device ID
          PCI\VEN_0E11&DEV_0046&SUBSYS_40910E11&REV_0
1\4&82820FC&0&2038
Memory Address      0xF7CF0000-0xF7CF1FFF
I/O Port  0x00005000-0x00005FFF
Memory Address      0xF7C80000-0xF7CBFFFF
IRQ Channel         IRQ 24
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Driver    c:\windows\system32\drivers\cpqcissm.sys
(5.66.0.32 Build 2 (x86), 16.13 KB (16,512 bytes),
6/3/2005 5:58 AM)

Name      QLogic Fibre Channel Adapter
Manufacturer        QLogic
Status    OK
PNP Device ID
          PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&25F4D2AC&0&3848
I/O Port  0x00006000-0x00007FFF
Memory Address      0xF7EF0000-0xF7EF0FFF
IRQ Channel         IRQ 34
Driver    c:\windows\system32\drivers\ql2300.sys
(9.0.2.11 (w32 IP), 804.17 KB (823,465 bytes),
5/25/2005 3:54 PM)

Name      QLogic Fibre Channel Adapter
Manufacturer        QLogic
Status    OK
PNP Device ID
          PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&25F4D2AC&0&3948
I/O Port  0x00006400-0x000064FF
Memory Address      0xF7EE0000-0xF7EE0FFF
IRQ Channel         IRQ 35
Driver    c:\windows\system32\drivers\ql2300.sys
(9.0.2.11 (w32 IP), 804.17 KB (823,465 bytes),
5/25/2005 3:54 PM)

Name      QLogic Fibre Channel Adapter
Manufacturer        QLogic
Status    OK
PNP Device ID
          PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&25F4D2AC&0&4048
I/O Port  0x00006800-0x000068FF
Memory Address      0xF7ED0000-0xF7ED0FFF
IRQ Channel         IRQ 32
Driver    c:\windows\system32\drivers\ql2300.sys
(9.0.2.11 (w32 IP), 804.17 KB (823,465 bytes),
5/25/2005 3:54 PM)

Name      QLogic Fibre Channel Adapter
Manufacturer        QLogic
Status    OK
PNP Device ID
          PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&25F4D2AC&0&4148
I/O Port  0x00006C00-0x00006CFF
Memory Address      0xF7EC0000-0xF7EC0FFF
IRQ Channel         IRQ 33
Driver    c:\windows\system32\drivers\ql2300.sys
(9.0.2.11 (w32 IP), 804.17 KB (823,465 bytes),
5/25/2005 3:54 PM)

Name      QLogic Fibre Channel Adapter
Manufacturer        QLogic
Status    OK
PNP Device ID
          PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&9630B56&0&4850
I/O Port  0x00007000-0x00007FFF
Memory Address      0xF7FF0000-0xF7FF0FFF
IRQ Channel         IRQ 36
Driver    c:\windows\system32\drivers\ql2300.sys
(9.0.2.11 (w32 IP), 804.17 KB (823,465 bytes),
5/25/2005 3:54 PM)

Name      QLogic Fibre Channel Adapter
Manufacturer        QLogic
Status    OK
PNP Device ID
          PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&9630B56&0&4950
I/O Port  0x00007400-0x000074FF
Memory Address      0xF7FE0000-0xF7FE0FFF
IRQ Channel         IRQ 37
Driver    c:\windows\system32\drivers\ql2300.sys
(9.0.2.11 (w32 IP), 804.17 KB (823,465 bytes),
5/25/2005 3:54 PM)

[IDE]

Item      Value
Name      Standard Dual Channel PCI IDE Controller

Manufacturer        (Standard IDE ATA/ATAPI
controllers)
Status    OK
PNP Device ID
          PCI\VEN_1022&DEV_7469&SUBSYS_32040E11&REV_0
3\3&20FEA912&0&21
I/O Port  0x00002000-0x0000200F
Driver    c:\windows\system32\drivers\pciide.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 5.50 KB (5,632
bytes), 3/25/2003 6:00 AM)

Name      Primary IDE Channel
Manufacturer        (Standard IDE ATA/ATAPI
controllers)
Status    OK
PNP Device ID       PCIIDE\IDECHANNEL\4&21637DBD&0&0

I/O Port  0x000001F0-0x000001F7
I/O Port  0x000003F6-0x000003F6
IRQ Channel         IRQ 14
Driver    c:\windows\system32\drivers\atapi.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 93.50 KB
(95,744 bytes), 3/25/2003 6:00 AM)

Name      Secondary IDE Channel
Manufacturer        (Standard IDE ATA/ATAPI
controllers)
Status    OK
PNP Device ID       PCIIDE\IDECHANNEL\4&21637DBD&0&1

I/O Port  0x00000170-0x00000177
I/O Port  0x00000376-0x00000376
Driver    c:\windows\system32\drivers\atapi.sys
(5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 93.50 KB
(95,744 bytes), 3/25/2003 6:00 AM)

[Printing]

Name      Driver    Port Name Server Name

[Problem Devices]

Device    PNP Device ID       Error Code
Base System Device
          PCI\VEN_0E11&DEV_B203&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1018 The drivers for this device are
not installed.
Base System Device
          PCI\VEN_0E11&DEV_B204&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1218 The drivers for this device are
not installed.

[USB]

Device    PNP Device ID
Standard OpenHCD USB Host Controller
          PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0018
Standard OpenHCD USB Host Controller
          PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0118

[Software Environment]



[System Drivers]

Name      Description         File      Type
          Started   Start Mode          State
          Status    Error Control       Accept Pause
          Accept Stop
abiosdsk  Abiosdsk  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Ignore    No        No
acpi      Microsoft ACPI Driver
          c:\windows\system32\drivers\acpi.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

acpiec    ACPIEC
          c:\windows\system32\drivers\acpiec.sys
          Kernel Driver       No        Disabled
          Stopped   OK        Normal    No        No

adpu160m  adpu160m  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
adpu320   adpu320   Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
afcnt     afcnt     Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
afd       AFD Networking Support Environment
          c:\windows\system32\drivers\afd.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

aha154x   Aha154x   Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
aic78u2   aic78u2   Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
aic78xx   aic78xx   Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
aliide    AliIde    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
amdk8     AMD K8 Processor Driver
          c:\windows\system32\drivers\amdk8.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

asyncmac  RAS Asynchronous Media Driver
          c:\windows\system32\drivers\asyncmac.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

atapi     Standard IDE/ESDI Hard Disk Controller
          c:\windows\system32\drivers\atapi.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

atdisk    Atdisk    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Ignore    No        No
ati2mpad  ati2mpad
          c:\windows\system32\drivers\ati2mpad.sys
          Kernel Driver       Yes       Manual
          Running   OK        Ignore    No        Yes

atmarpc   ATM ARP Client Protocol
          c:\windows\system32\drivers\atmarpc.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

audstub   Audio Stub Driver
          c:\windows\system32\drivers\audstub.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

beep      Beep
          c:\windows\system32\drivers\beep.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

cbidf2k   cbidf2k
          c:\windows\system32\drivers\cbidf2k.sys
          Kernel Driver       No        Disabled
          Stopped   OK        Normal    No        No

cd20xrnt  cd20xrnt  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
cdfs      Cdfs
          c:\windows\system32\drivers\cdfs.sys
          File System Driver  Yes       Disabled
          Running   OK        Normal    No        Yes

cdrom     CD-ROM Driver
          c:\windows\system32\drivers\cdrom.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

changer   Changer   Not Available       Kernel Driver
          No        System    Stopped   OK
          Ignore    No        No
clusdisk  Cluster Disk Driver
          c:\windows\system32\drivers\clusdisk.sys
          Kernel Driver       No        Disabled
          Stopped   OK        Normal    No        No

cmdide    CmdIde    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
cpqarray  Cpqarray  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
cpqarry2  cpqarry2  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
cpqcissm  cpqcissm
          c:\windows\system32\drivers\cpqcissm.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

cpqfcac   CPQFCAC
          c:\windows\system32\drivers\cpqfcac.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

cpqfcalm  cpqfcalm  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
crcdisk   CRC Disk Filter Driver
          c:\windows\system32\drivers\crcdisk.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

dac960nt  dac960nt  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
dellcerc  dellcerc  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
dfsdriver DfsDriver
          c:\windows\system32\drivers\dfs.sys
          File System Driver  Yes       Boot
          Running   OK        Normal    No        Yes

disk      Disk Driver
          c:\windows\system32\drivers\disk.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

dmboot    dmboot
          c:\windows\system32\drivers\dmboot.sys
          Kernel Driver       No        Disabled
          Stopped   OK        Normal    No        No

dmio      Logical Disk Manager Driver
          c:\windows\system32\drivers\dmio.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

dmload    dmload
          c:\windows\system32\drivers\dmload.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

dpti2o    dpti2o    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
fastfat   Fastfat
          c:\windows\system32\drivers\fastfat.sys
          File System Driver  No        Disabled
          Stopped   OK        Normal    No        No

fdc       Floppy Disk Controller Driver
          c:\windows\system32\drivers\fdc.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

fips      Fips
          c:\windows\system32\drivers\fips.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

flpydisk  Floppy Disk Driver
          c:\windows\system32\drivers\flpydisk.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

fltmgr    FltMgr
          c:\windows\system32\drivers\fltmgr.sys
          File System Driver  Yes       Boot
          Running   OK        Normal    No        Yes

ftdisk    Volume Manager Driver
          c:\windows\system32\drivers\ftdisk.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

gpc       Generic Packet Classifier
          c:\windows\system32\drivers\msgpc.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

hpn       hpn       Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
hpqcissb  Smart Array Controllers Non-Miniport Bus
Driver    c:\windows\system32\drivers\hpqcissb.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

hpqcissd  Smart Array Controllers Non-Miniport Disk
Driver    c:\windows\system32\drivers\hpqcissd.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

hpt3xx    hpt3xx    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
http      HTTP
          c:\windows\system32\drivers\http.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

i2omgmt   i2omgmt   Not Available       Kernel Driver
          No        System    Stopped   OK
          Normal    No        No
i2omp     i2omp     Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
i8042prt  i8042 Keyboard and PS/2 Mouse Port Driver
          c:\windows\system32\drivers\i8042prt.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

iirsp     iirsp     Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
imapi     CD-Burning Filter Driver
          c:\windows\system32\drivers\imapi.sys
          Kernel Driver       No        System
          Stopped   OK        Normal    No        No

intelide  IntelIde  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
ip6fw     IPv6 Windows Firewall Driver
          c:\windows\system32\drivers\ip6fw.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

ipfilterdriver      IP Traffic Filter Driver
          c:\windows\system32\drivers\ipfltdrv.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

ipinip    IP in IP Tunnel Driver
          c:\windows\system32\drivers\ipinip.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

ipnat     IP Network Address Translator
          c:\windows\system32\drivers\ipnat.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

ipsec     IPSEC driver
          c:\windows\system32\drivers\ipsec.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

ipsraidn  ipsraidn  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
irenum    IR Enumerator Service
          c:\windows\system32\drivers\irenum.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

isapnp    PnP ISA/EISA Bus Driver
          c:\windows\system32\drivers\isapnp.sys
          Kernel Driver       Yes       Boot
          Running   OK        Critical  No        Yes

kbdclass  Keyboard Class Driver
          c:\windows\system32\drivers\kbdclass.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

ksecdd    KSecDD
          c:\windows\system32\drivers\ksecdd.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

lp6nds35  lp6nds35  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
mnmdd     mnmdd
          c:\windows\system32\drivers\mnmdd.sys
          Kernel Driver       Yes       System
          Running   OK        Ignore    No        Yes

modem     Modem
          c:\windows\system32\drivers\modem.sys
          Kernel Driver       No        Manual
          Stopped   OK        Ignore    No        No

mouclass  Mouse Class Driver
          c:\windows\system32\drivers\mouclass.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

mountmgr  Mount Point Manager
          c:\windows\system32\drivers\mountmgr.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

mraid35x  mraid35x  Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
mrxdav    WebDav Client Redirector
          c:\windows\system32\drivers\mrxdav.sys
          File System Driver  No        Manual
          Stopped   OK        Normal    No        No

mrxsmb    MRXSMB
          c:\windows\system32\drivers\mrxsmb.sys
          File System Driver  Yes       System
          Running   OK        Normal    No        Yes

msfs      Msfs
          c:\windows\system32\drivers\msfs.sys
          File System Driver  Yes       System
          Running   OK        Normal    No        Yes

mssmbios  Microsoft System Management BIOS Driver
          c:\windows\system32\drivers\mssmbios.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

mup       Mup
          c:\windows\system32\drivers\mup.sys
          File System Driver  Yes       Boot
          Running   OK        Normal    No        Yes

ndis      NDIS System Driver
          c:\windows\system32\drivers\ndis.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

ndistapi  Remote Access NDIS TAPI Driver
          c:\windows\system32\drivers\ndistapi.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

ndisuio   NDIS Usermode I/O Protocol
          c:\windows\system32\drivers\ndisuio.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No

ndiswan   Remote Access NDIS WAN Driver
          c:\windows\system32\drivers\ndiswan.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

ndproxy   NDIS Proxy
          c:\windows\system32\drivers\ndproxy.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

netbios   NetBIOS Interface
          c:\windows\system32\drivers\netbios.sys
          File System Driver  Yes       System
          Running   OK        Normal    No        Yes

netbt     NetBios over Tcpip
          c:\windows\system32\drivers\netbt.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

nfrd960   nfrd960   Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
npfs      Npfs
          c:\windows\system32\drivers\npfs.sys
          File System Driver  Yes       System
          Running   OK        Normal    No        Yes
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
ntfs        Ntfs
            c:\windows\system32\drivers\ntfs.sys
            File System Driver  Yes       Disabled
            Running   OK        Normal    No        Yes

null        Null
            c:\windows\system32\drivers\null.sys
            Kernel Driver       Yes       System
            Running   OK        Normal    No        Yes

parport     Parport
            c:\windows\system32\drivers\parport.sys
            Kernel Driver       No        Manual
            Stopped   OK        Ignore    No        No

partmgr     Partition Manager
            c:\windows\system32\drivers\partmgr.sys
            Kernel Driver       Yes       Boot
            Running   OK        Normal    No        Yes

pci         PCI Bus Driver
            c:\windows\system32\drivers\pci.sys
            Kernel Driver       Yes       Boot
            Running   OK        Critical  No        Yes

pciide      PCIIde
            c:\windows\system32\drivers\pciide.sys
            Kernel Driver       Yes       Boot
            Running   OK        Normal    No        Yes

pcmcia      Pcmcia
            c:\windows\system32\drivers\pcmcia.sys
            Kernel Driver       No        Disabled
            Stopped   OK        Normal    No        No

pdcomp      PDCOMP    Not Available       Kernel Driver
            No        Manual    Stopped   OK
            Ignore    No        No
pdframe     PDFRAME   Not Available       Kernel Driver
            No        Manual    Stopped   OK
            Ignore    No        No
pdreli      PDRELI    Not Available       Kernel Driver
            No        Manual    Stopped   OK
            Ignore    No        No
pdrframe    PDRFRAME  Not Available       Kernel Driver
            No        Manual    Stopped   OK
            Ignore    No        No
perc2       perc2     Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
perc2hib    perc2hib  Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
pptpminiport        WAN Miniport (PPTP)
            c:\windows\system32\drivers\raspptp.sys
            Kernel Driver       Yes       Manual
            Running   OK        Normal    No        Yes

processor   Processor Driver
            c:\windows\system32\drivers\processr.sys
            Kernel Driver       Yes       Manual
            Running   OK        Normal    No        Yes

ptilink     Direct Parallel Link Driver
            c:\windows\system32\drivers\ptilink.sys
            Kernel Driver       Yes       Manual
            Running   OK        Normal    No        Yes

q57w2k      HP NC7782 Gigabit Server Adapter
            c:\windows\system32\drivers\q57xp32.sys
            Kernel Driver       Yes       Manual
            Running   OK        Normal    No        Yes

ql1080      ql1080    Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
ql10wnt     Ql10wnt   Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
ql12160     ql12160   Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
ql1240      ql1240    Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
ql1280      ql1280    Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
ql2100      ql2100    Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
ql2200      ql2200    Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
ql2300      QLogic Fibre Channel SCSI Miniport Driver
(w32 IP)    c:\windows\system32\drivers\ql2300.sys
            Kernel Driver       Yes       Boot
            Running   OK        Normal    No        Yes

qldirect    qldirect
            c:\windows\system32\drivers\qldirect.sys
            Kernel Driver       Yes       Auto
            Running   OK        Normal    No        Yes

rasacd      Remote Access Auto Connection Driver
            c:\windows\system32\drivers\rasacd.sys
            Kernel Driver       Yes       System
            Running   OK        Normal    No        Yes

rasl2tp     WAN Miniport (L2TP)
            c:\windows\system32\drivers\rasl2tp.sys
            Kernel Driver       Yes       Manual
            Running   OK        Normal    No        Yes

raspppoe    Remote Access PPPOE Driver
            c:\windows\system32\drivers\raspppoe.sys
            Kernel Driver       Yes       Manual
            Running   OK        Normal    No        Yes

raspti      Direct Parallel
            c:\windows\system32\drivers\raspti.sys
            Kernel Driver       Yes       Manual
            Running   OK        Normal    No        Yes

rdbss       Rdbss
            c:\windows\system32\drivers\rdbss.sys
            File System Driver  Yes       System
            Running   OK        Normal    No        Yes

rdpcdd      RDPCDD
            c:\windows\system32\drivers\rdpcdd.sys
            Kernel Driver       Yes       System
            Running   OK        Ignore    No        Yes

rdpdr       Terminal Server Device Redirector Driver
            c:\windows\system32\drivers\rdpdr.sys
            Kernel Driver       Yes       Manual
            Running   OK        Normal    No        Yes

rdpwd       RDPWD
            c:\windows\system32\drivers\rdpwd.sys
            Kernel Driver       Yes       Manual
            Running   OK        Ignore    No        Yes

redbook     Digital CD Audio Playback Filter Driver
            c:\windows\system32\drivers\redbook.sys
            Kernel Driver       Yes       System
            Running   OK        Normal    No        Yes

secdrv      Secdrv
            c:\windows\system32\drivers\secdrv.sys
            Kernel Driver       No        Manual
            Stopped   OK        Normal    No        No

serenum     Serenum Filter Driver
            c:\windows\system32\drivers\serenum.sys
            Kernel Driver       Yes       Manual
            Running   OK        Normal    No        Yes

serial      Serial port driver
            c:\windows\system32\drivers\serial.sys
            Kernel Driver       Yes       System
            Running   OK        Ignore    No        Yes

sfloppy     Sfloppy
            c:\windows\system32\drivers\sfloppy.sys
            Kernel Driver       No        System
            Stopped   OK        Ignore    No        No

simbad      Simbad    Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
sparrow     Sparrow   Not Available       Kernel Driver
            No        Disabled  Stopped   OK
            Normal    No        No
srv         Srv
            c:\windows\system32\drivers\srv.sys
            File System Driver  Yes       Manual
            Running   OK        Normal    No        Yes

swenum      Software Bus Driver
            c:\windows\system32\drivers\swenum.sys
            Kernel Driver       Yes       Manual
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          Running   OK        Normal    No        Yes

symc810   symc810   Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
symc8xx   symc8xx   Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
symmpi    symmpi    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
sym_hi    sym_hi    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
sym_u3    sym_u3    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
tcpip     TCP/IP Protocol Driver
          c:\windows\system32\drivers\tcpip.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

tdpipe    TDPIPE
          c:\windows\system32\drivers\tdpipe.sys
          Kernel Driver       No        Manual
          Stopped   OK        Ignore    No        No

tdtcp     TDTCP
          c:\windows\system32\drivers\tdtcp.sys
          Kernel Driver       Yes       Manual
          Running   OK        Ignore    No        Yes

termdd    Terminal Device Driver
          c:\windows\system32\drivers\termdd.sys
          Kernel Driver       Yes       System
          Running   OK        Normal    No        Yes

toside    TosIde    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
udfs      Udfs
          c:\windows\system32\drivers\udfs.sys
          File System Driver  No        Disabled
          Stopped   OK        Normal    No        No

ultra     ultra     Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
update    Microcode Update Driver
          c:\windows\system32\drivers\update.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

usbhub    USB2 Enabled Hub
          c:\windows\system32\drivers\usbhub.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

usbohci   Microsoft USB Open Host Controller Miniport
Driver    c:\windows\system32\drivers\usbohci.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

vgasave   VGA Display Controller.
          c:\windows\system32\drivers\vga.sys
          Kernel Driver       Yes       System
          Running   OK        Ignore    No        Yes

viaide    ViaIde    Not Available       Kernel Driver
          No        Disabled  Stopped   OK
          Normal    No        No
volsnap   Storage volumes
          c:\windows\system32\drivers\volsnap.sys
          Kernel Driver       Yes       Boot
          Running   OK        Normal    No        Yes

wanarp    Remote Access IP ARP Driver
          c:\windows\system32\drivers\wanarp.sys
          Kernel Driver       Yes       Manual
          Running   OK        Normal    No        Yes

wdica     WDICA     Not Available       Kernel Driver
          No        Manual    Stopped   OK
          Ignore    No        No
wlbs      Network Load Balancing
          c:\windows\system32\drivers\wlbs.sys
          Kernel Driver       No        Manual
          Stopped   OK        Normal    No        No


[Signed Drivers]

Device Name         Signed    Device Class
          Driver Version      Driver Date
          Manufacturer        INF Name  Driver Name
          Device ID
Microsoft System Management BIOS Driver Yes
          SYSTEM    5.2.3790.1830       10/1/2002
          (Standard system devices)     machine.inf
          Not Available       ROOT\SYSTEM\0002
Microcode Update Device       Yes       SYSTEM
          5.2.3790.0          10/1/2002 (Standard
system devices)     machine.inf         Not Available
          ROOT\SYSTEM\0001
Plug and Play Software Device Enumerator          Yes
          SYSTEM    5.2.3790.0          10/1/2002
          (Standard system devices)     machine.inf
          Not Available       ROOT\SYSTEM\0000
Terminal Server Mouse Driver  Yes       SYSTEM
          5.2.3790.0          10/1/2002 (Standard
system devices)     machine.inf         Not Available
          ROOT\RDP_MOU\0000
Terminal Server Keyboard Driver          Yes
          SYSTEM    5.2.3790.0          10/1/2002
          (Standard system devices)     machine.inf
          Not Available       ROOT\RDP_KBD\0000
Terminal Server Device Redirector        Yes
          SYSTEM    5.2.3790.0          10/1/2002
          (Standard system devices)     machine.inf
          Not Available       ROOT\RDPDR\0000

Direct Parallel     Yes       NET       5.2.3790.0
          10/1/2002 Microsoft netrasa.inf         Not
Available ROOT\MS_PTIMINIPORT\0000
WAN Miniport (PPTP) Yes       NET       5.2.3790.0
          10/1/2002 Microsoft netrasa.inf         Not
Available ROOT\MS_PPTPMINIPORT\0000
WAN Miniport (PPPOE)          Yes       NET
          5.2.3790.0          10/1/2002 Microsoft
          netrasa.inf         Not Available
          ROOT\MS_PPPOEMINIPORT\0000
WAN Miniport (IP)   Yes       NET       5.2.3790.0
          10/1/2002 Microsoft netrasa.inf         Not
Available ROOT\MS_NDISWANIP\0000
WAN Miniport (L2TP) Yes       NET       5.2.3790.0
          10/1/2002 Microsoft netrasa.inf         Not
Available ROOT\MS_L2TPMINIPORT\0000
Video Codecs        Yes       MEDIA     5.2.3790.0
          10/1/2002 (Standard system devices)
          wave.inf  Not Available
          ROOT\MEDIA\MS_MMVID
Legacy Video Capture Devices  Yes       MEDIA
          5.2.3790.0          10/1/2002 (Standard
system devices)     wave.inf  Not Available
          ROOT\MEDIA\MS_MMVCD
Media Control Devices         Yes       MEDIA
          5.2.3790.0          10/1/2002 (Standard
system devices)     wave.inf  Not Available
          ROOT\MEDIA\MS_MMMCI
Legacy Audio Drivers          Yes       MEDIA
          5.2.3790.0          10/1/2002 (Standard
system devices)     wave.inf  Not Available
          ROOT\MEDIA\MS_MMDRV
Audio Codecs        Yes       MEDIA     5.2.3790.0
          10/1/2002 (Standard system devices)
          wave.inf  Not Available
          ROOT\MEDIA\MS_MMACM
Remote Access IP ARP Driver   Not Available
          LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_WANARP\0000
volsnap   Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available
          ROOT\LEGACY_VOLSNAP\0000
VGA Display Controller.       Not Available
          LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_VGASAVE\0000
TDTCP     Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_TDTCP\0000

TCP/IP Protocol Driver        Not Available
          LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_TCPIP\0000
RDPWD     Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_RDPWD\0000
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
RDPCDD    Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_RDPCDD\0000

Remote Access Auto Connection Driver    Not Available
          LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_RASACD\0000
qldirect  Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available
          ROOT\LEGACY_QLDIRECT\0000
Partition Manager   Not Available       LEGACYDRIVER
          Not Available       Not Available       Not
Available Not Available       Not Available
          ROOT\LEGACY_PARTMGR\0000
Null      Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_NULL\0000

NetBios over Tcpip  Not Available       LEGACYDRIVER
          Not Available       Not Available       Not
Available Not Available       Not Available
          ROOT\LEGACY_NETBT\0000
NDProxy   Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available
          ROOT\LEGACY_NDPROXY\0000
NDIS Usermode I/O Protocol    Not Available
          LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_NDISUIO\0000
Remote Access NDIS TAPI Driver          Not Available
          LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_NDISTAPI\0000
NDIS System Driver  Not Available       LEGACYDRIVER
          Not Available       Not Available       Not
Available Not Available       Not Available
          ROOT\LEGACY_NDIS\0000
mountmgr  Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available
          ROOT\LEGACY_MOUNTMGR\0000
mnmdd     Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_MNMDD\0000

ksecdd    Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_KSECDD\0000

IPSEC driver        Not Available       LEGACYDRIVER
          Not Available       Not Available       Not
Available Not Available       Not Available
          ROOT\LEGACY_IPSEC\0000
Smart Array Controllers Non-Miniport Disk Driver  Not
Available LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_HPQCISSD\0000

Smart Array Controllers Non-Miniport Bus Driver   Not
Available LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_HPQCISSB\0000
Generic Packet Classifier     Not Available
          LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_GPC\0000
Fips      Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_FIPS\0000

dmload    Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_DMLOAD\0000

dmboot    Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_DMBOOT\0000

CRC Disk Filter Driver        Not Available
          LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_CRCDISK\0000
Beep      Not Available       LEGACYDRIVER        Not
Available Not Available       Not Available       Not
Available Not Available       ROOT\LEGACY_BEEP\0000

AFD Networking Support Environment      Not Available
          LEGACYDRIVER        Not Available       Not
Available Not Available       Not Available       Not
Available ROOT\LEGACY_AFD\0000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
42OFFSET7E00LENGTHA36ACAA800
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURED0524E
F6OFFSET7E00LENGTH9C3DBD800
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURED0524E
F1OFFSET7E00LENGTH1387B82E00
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4FOFFSET10000LENGTH9C3D00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4EOFFSET10000LENGTH1387B00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available

          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
36OFFSET7E00LENGTHA36ACAA800
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
49OFFSET10000LENGTH9C3D00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
48OFFSET10000LENGTH1387B00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
37OFFSET7E00LENGTHA36ACAA800
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4BOFFSET10000LENGTH9C3D00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4AOFFSET10000LENGTH1387B00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4DOFFSET10000LENGTH9C3D00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4COFFSET10000LENGTH1387B00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
40OFFSET10000LENGTH9C3D00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
43OFFSET10000LENGTH1387B00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
47OFFSET7E00LENGTHA36ACAA800
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
          STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
46OFFSET10000LENGTH9C3D00000
Generic volume      Yes       VOLUME    5.2.3790.1830
          10/1/2002 Microsoft volume.inf          Not
Available
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
        STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
59OFFSET10000LENGTH1387B00000
Generic volume      Yes       VOLUME    5.2.3790.1830
        10/1/2002 Microsoft volume.inf          Not
Available
        STORAGE\VOLUME\1&30A96598&0&SIGNATURED97DC9
B7OFFSET10000LENGTH8BB2000000
Generic volume      Yes       VOLUME    5.2.3790.0
        10/1/2002 Microsoft volume.inf          Not
Available
        STORAGE\VOLUME\1&30A96598&0&SIGNATURE263026
3OFFSET4000LENGTH87A3D0000
Volume Manager      Yes       SYSTEM    5.2.3790.0
        10/1/2002 (Standard system devices)
        machine.inf         Not Available
        ROOT\FTDISK\0000
Logical Disk Manager          Yes       SYSTEM
        5.2.3790.0          10/1/2002 (Standard
system devices)     machine.inf         Not Available
        ROOT\DMIO\0000
ACPI Fixed Feature Button     Yes       SYSTEM
        5.2.3790.0          10/1/2002 (Standard
system devices)     machine.inf         Not Available
        ACPI\FIXEDBUTTON\2&DABA3FF&0
AMD-8131 HyperTransport(tm) IOAPIC Controller     Yes
        SYSTEM    5.2.3790.1830       10/1/2002 AMD
        machine.inf         Not Available
        PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&33B859B7&0&51
QLOGIC PSEUDO LUN   Yes       SYSTEM    9.0.2.11
        3/8/2005  QLogic Corp         oem6.inf  Not
Available
        SCSI\PROCESSOR&VEN_QLOGIC&PROD_PSEUDO_LUN&R
EV_\5&F38A5BE&1&07F0
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&F38A5BE&1&003
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&F38A5BE&1&002
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&F38A5BE&1&001
StorageWorks MSA1000          Yes       SYSTEM
        5.30.0.32 6/3/2005  Hewlett-Packard Company
        oem9.inf  Not Available
        SCSI\ARRAY&VEN_COMPAQ&PROD_MSA1000&REV_4.32
\5&F38A5BE&1&000
QLogic Fibre Channel Adapter  Yes       SCSIADAPTER
        9.0.2.11  3/8/2005  QLogic    oem11.inf Not
Available
        PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&9630B56&0&4950
QLOGIC PSEUDO LUN   Yes       SYSTEM    9.0.2.11
        3/8/2005  QLogic Corp         oem6.inf  Not
Available
        SCSI\PROCESSOR&VEN_QLOGIC&PROD_PSEUDO_LUN&R
EV_\5&27D1CD68&1&07F0
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&27D1CD68&1&012
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&27D1CD68&1&011
HP MSA1000          Yes       SYSTEM    5.2.3790.1830
        10/1/2002 Compaq    scsidev.inf         Not
Available
        SCSI\ARRAY&VEN_COMPAQ&PROD_MSA1000&REV_4.32
\5&27D1CD68&1&010
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&27D1CD68&1&003
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&27D1CD68&1&002
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&27D1CD68&1&001
StorageWorks MSA1000          Yes       SYSTEM
        5.30.0.32 6/3/2005  Hewlett-Packard Company
        oem9.inf  Not Available
        SCSI\ARRAY&VEN_COMPAQ&PROD_MSA1000&REV_4.32
\5&27D1CD68&1&000
QLogic Fibre Channel Adapter  Yes       SCSIADAPTER
        9.0.2.11  3/8/2005  QLogic    oem11.inf Not
Available
        PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&9630B56&0&4850
PCI standard PCI-to-PCI bridge          Yes
        SYSTEM    5.2.3790.0          10/1/2002
        (Standard system devices)     machine.inf
        Not Available
        PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&50
AMD-8131 HyperTransport(tm) IOAPIC Controller     Yes
        SYSTEM    5.2.3790.1830       10/1/2002 AMD
        machine.inf         Not Available
        PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&33B859B7&0&49
QLOGIC PSEUDO LUN   Yes       SYSTEM    9.0.2.11
        3/8/2005  QLogic Corp         oem6.inf  Not
Available
        SCSI\PROCESSOR&VEN_QLOGIC&PROD_PSEUDO_LUN&R
EV_\5&1EEA3889&1&07F0
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&1EEA3889&1&003
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&1EEA3889&1&002
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&1EEA3889&1&001
StorageWorks MSA1000          Yes       SYSTEM
        5.30.0.32 6/3/2005  Hewlett-Packard Company
        oem9.inf  Not Available
        SCSI\ARRAY&VEN_COMPAQ&PROD_MSA1000&REV_4.32
\5&1EEA3889&1&000
QLogic Fibre Channel Adapter  Yes       SCSIADAPTER
        9.0.2.11  3/8/2005  QLogic    oem11.inf Not
Available
        PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&25F4D2AC&0&4148
QLOGIC PSEUDO LUN   Yes       SYSTEM    9.0.2.11
        3/8/2005  QLogic Corp         oem6.inf  Not
Available
        SCSI\PROCESSOR&VEN_QLOGIC&PROD_PSEUDO_LUN&R
EV_\5&37836033&1&07F0
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&37836033&1&002
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&37836033&1&001
StorageWorks MSA1000          Yes       SYSTEM
        5.30.0.32 6/3/2005  Hewlett-Packard Company
        oem9.inf  Not Available
        SCSI\ARRAY&VEN_COMPAQ&PROD_MSA1000&REV_4.32
\5&37836033&1&000
QLogic Fibre Channel Adapter  Yes       SCSIADAPTER
        9.0.2.11  3/8/2005  QLogic    oem11.inf Not
Available
        PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&25F4D2AC&0&4048
QLOGIC PSEUDO LUN   Yes       SYSTEM    9.0.2.11
        3/8/2005  QLogic Corp         oem6.inf  Not
Available
        SCSI\PROCESSOR&VEN_QLOGIC&PROD_PSEUDO_LUN&R
EV_\5&27BAD400&1&07F0
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
        SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&27BAD400&1&002
Disk drive          Yes       DISKDRIVE 5.2.3790.0
        10/1/2002 (Standard disk drives)
        disk.inf  Not Available
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&27BAD400&1&001
StorageWorks MSA1000          Yes       SYSTEM
          5.30.0.32 6/3/2005  Hewlett-Packard Company
          oem9.inf  Not Available
          SCSI\ARRAY&VEN_COMPAQ&PROD_MSA1000&REV_4.32
\5&27BAD400&1&000
QLogic Fibre Channel Adapter  Yes       SCSIADAPTER
          9.0.2.11  3/8/2005  QLogic    oem11.inf Not
Available
          PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&25F4D2AC&0&3948
QLOGIC PSEUDO LUN   Yes       SYSTEM    9.0.2.11
          3/8/2005  QLogic Corp         oem6.inf  Not
Available
          SCSI\PROCESSOR&VEN_QLOGIC&PROD_PSEUDO_LUN&R
EV_\5&4B931A3&1&07F0
Disk drive          Yes       DISKDRIVE 5.2.3790.0
          10/1/2002 (Standard disk drives)
          disk.inf  Not Available
          SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&4B931A3&1&003
Disk drive          Yes       DISKDRIVE 5.2.3790.0
          10/1/2002 (Standard disk drives)
          disk.inf  Not Available
          SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&4B931A3&1&002
Disk drive          Yes       DISKDRIVE 5.2.3790.0
          10/1/2002 (Standard disk drives)
          disk.inf  Not Available
          SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&RE
V_4.32\5&4B931A3&1&001
StorageWorks MSA1000          Yes       SYSTEM
          5.30.0.32 6/3/2005  Hewlett-Packard Company
          oem9.inf  Not Available
          SCSI\ARRAY&VEN_COMPAQ&PROD_MSA1000&REV_4.32
\5&4B931A3&1&000
QLogic Fibre Channel Adapter  Yes       SCSIADAPTER
          9.0.2.11  3/8/2005  QLogic    oem11.inf Not
Available
          PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_0
2\4&25F4D2AC&0&3848
PCI standard PCI-to-PCI bridge          Yes
          SYSTEM    5.2.3790.0          10/1/2002
          (Standard system devices)     machine.inf
          Not Available
          PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&48
PCI bus   Yes       SYSTEM    5.2.3790.0
          10/1/2002 (Standard system devices)
          machine.inf         Not Available
          ACPI\PNP0A03\8
AMD Miscellaneous Configuration         Yes
          SYSTEM    5.2.3790.1830       10/1/2002 AMD
          machine.inf         Not Available
          PCI\VEN_1022&DEV_1103&SUBSYS_00000000&REV_0
0\3&20FEA912&0&CB
AMD DRAM and HyperTransport(tm) Trace Mode
Configuration       Yes       SYSTEM    5.2.3790.1830
          10/1/2002 AMD       machine.inf         Not
Available
          PCI\VEN_1022&DEV_1102&SUBSYS_00000000&REV_0
0\3&20FEA912&0&CA
AMD Address Map Configuration Yes       SYSTEM
          5.2.3790.1830       10/1/2002 AMD
          machine.inf         Not Available
          PCI\VEN_1022&DEV_1101&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C9
AMD HyperTransport(tm) Configuration    Yes
          SYSTEM    5.2.3790.1830       10/1/2002 AMD
          machine.inf         Not Available
          PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C8
AMD Miscellaneous Configuration         Yes
          SYSTEM    5.2.3790.1830       10/1/2002 AMD
          machine.inf         Not Available
          PCI\VEN_1022&DEV_1103&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C3
AMD DRAM and HyperTransport(tm) Trace Mode
Configuration       Yes       SYSTEM    5.2.3790.1830
          10/1/2002 AMD       machine.inf         Not
Available
          PCI\VEN_1022&DEV_1102&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C2
AMD Address Map Configuration Yes       SYSTEM
          5.2.3790.1830       10/1/2002 AMD
          machine.inf         Not Available
          PCI\VEN_1022&DEV_1101&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C1
AMD HyperTransport(tm) Configuration    Yes
          SYSTEM    5.2.3790.1830       10/1/2002 AMD
          machine.inf         Not Available
          PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C0
AMD-8131 HyperTransport(tm) IOAPIC Controller     Yes
          SYSTEM    5.2.3790.1830       10/1/2002 AMD
          machine.inf         Not Available
          PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&20FEA912&0&41
HP NC7782 Gigabit Server Adapter        Yes       NET
          7.103.0.0 1/27/2005 Hewlett-Packard Company
          oem4.inf  Not Available
          PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
0\4&24B9E852&0&3140
HP NC7782 Gigabit Server Adapter        Yes       NET
          7.103.0.0 1/27/2005 Hewlett-Packard Company
          oem4.inf  Not Available
          PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
0\4&24B9E852&0&3040
PCI standard PCI-to-PCI bridge          Yes
          SYSTEM    5.2.3790.0          10/1/2002
          (Standard system devices)     machine.inf
          Not Available
          PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&20FEA912&0&40
AMD-8131 HyperTransport(tm) IOAPIC Controller     Yes
          SYSTEM    5.2.3790.1830       10/1/2002 AMD
          machine.inf         Not Available
          PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&20FEA912&0&39
Disk drive          Yes       DISKDRIVE 5.2.3790.0
          10/1/2002 (Standard disk drives)
          disk.inf  Not Available
          SCSI\DISK&VEN_HP&PROD_LOGICAL_VOLUME&REV_2.
36\5&3797EA60&0&050
Disk drive          Yes       DISKDRIVE 5.2.3790.0
          10/1/2002 (Standard disk drives)
          disk.inf  Not Available
          SCSI\DISK&VEN_HP&PROD_LOGICAL_VOLUME&REV_2.
36\5&3797EA60&0&040
Compaq Virtual LUN  Yes       SYSTEM    5.2.3790.0
          10/1/2002 Compaq    scsidev.inf         Not
Available
          SCSI\OTHER&VEN_COMPAQ&PROD_SCSI_COMMUNICATE
&REV_CISS\5&3797EA60&0&000
Smart Array 6i      Yes       SCSIADAPTER
          5.66.0.32 2/11/2005 Hewlett-Packard Company
          oem0.inf  Not Available
          PCI\VEN_0E11&DEV_0046&SUBSYS_40910E11&REV_0
1\4&82820FC&0&2038
PCI standard PCI-to-PCI bridge          Yes
          SYSTEM    5.2.3790.0          10/1/2002
          (Standard system devices)     machine.inf
          Not Available
          PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&20FEA912&0&38
AMD-8111 System Management Controller   Yes
          SYSTEM    5.2.3790.0          10/1/2002 AMD
          machine.inf         Not Available
          PCI\VEN_1022&DEV_746B&SUBSYS_32050E11&REV_0
5\3&20FEA912&0&23
Secondary IDE Channel         Yes       HDC
          5.2.3790.0          10/1/2002 (Standard IDE
ATA/ATAPI controllers)        mshdc.inf Not Available
          PCIIDE\IDECHANNEL\4&21637DBD&0&1
CD-ROM Drive        Yes       CDROM     5.2.3790.0
          10/1/2002 (Standard CD-ROM drives)
          cdrom.inf Not Available
          IDE\CDROMCOMPAQ_CD-ROM_SN-
124__________________N104____\5&2DC47F1C&0&0.0.0

Primary IDE Channel Yes       HDC       5.2.3790.0
          10/1/2002 (Standard IDE ATA/ATAPI
controllers)        mshdc.inf Not Available
          PCIIDE\IDECHANNEL\4&21637DBD&0&0
Standard Dual Channel PCI IDE Controller          Yes
          HDC       5.2.3790.0          10/1/2002
          (Standard IDE ATA/ATAPI controllers)
          mshdc.inf Not Available
          PCI\VEN_1022&DEV_7469&SUBSYS_32040E11&REV_0
3\3&20FEA912&0&21
Standard floppy disk controller         Yes       FDC
          5.2.3790.0          10/1/2002 (Standard
floppy disk controllers)      fdc.inf   Not Available
          ACPI\PNP0700\5&1C430410&0
Communications Port Yes       PORTS     5.2.3790.0
          10/1/2002 (Standard port types)
          msports.inf         Not Available
          ACPI\PNP0501\0
Extended IO Bus     Yes       SYSTEM    5.2.3790.0
          10/1/2002 (Standard system devices)
          machine.inf         Not Available
          ACPI\PNP0A06\4&1C7DEDE8&0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
PS/2 Compatible Mouse         Yes       MOUSE
          5.2.3790.0          10/1/2002 Microsoft
          msmouse.inf         Not Available
          ACPI\PNP0F13\4&1C7DEDE8&0
Standard 101/102-Key or Microsoft Natural PS/2
Keyboard  Yes       KEYBOARD  5.2.3790.0
          10/1/2002 (Standard keyboards)
          keyboard.inf        Not Available
          ACPI\PNP0303\4&1C7DEDE8&0
System speaker      Yes       SYSTEM    5.2.3790.0
          10/1/2002 (Standard system devices)
          machine.inf         Not Available
          ACPI\PNP0800\4&1C7DEDE8&0
Direct memory access controller         Yes
          SYSTEM    5.2.3790.0          10/1/2002
          (Standard system devices)     machine.inf
          Not Available
          ACPI\PNP0200\4&1C7DEDE8&0
System timer        Yes       SYSTEM    5.2.3790.0
          10/1/2002 (Standard system devices)
          machine.inf         Not Available
          ACPI\PNP0100\4&1C7DEDE8&0
Programmable interrupt controller       Yes
          SYSTEM    5.2.3790.0          10/1/2002
          (Standard system devices)     machine.inf
          Not Available
          ACPI\PNP0000\4&1C7DEDE8&0
Motherboard resources         Yes       SYSTEM
          5.2.3790.0          10/1/2002 (Standard
system devices)     machine.inf         Not Available
          ACPI\PNP0C02\0
ISAPNP Read Data Port         Yes       SYSTEM
          5.2.3790.0          10/1/2002 (Standard
system devices)     machine.inf         Not Available
          ISAPNP\READDATAPORT\0
PCI standard ISA bridge       Yes       SYSTEM
          5.2.3790.0          10/1/2002 (Standard
system devices)     machine.inf         Not Available
          PCI\VEN_1022&DEV_7468&SUBSYS_00000000&REV_0
5\3&20FEA912&0&20
Plug and Play Monitor         Yes       MONITOR
          5.1.2001.0          6/6/2001  (Standard
monitor types)      monitor.inf         Not Available
          DISPLAY\AVO0402\5&38B1FFCB&0&80000001&01&03

RAGE XL PCI Family (Microsoft Corporation)        Yes
          DISPLAY   5.10.2600.6014      8/8/2001  ATI
Technologies Inc.   atiixpad.inf        Not Available
          PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_2
7\4&12365AD0&0&1818
Base System Device  Not Available       UNKNOWN   Not
Available Not Available       Not Available       Not
Available Not Available
          PCI\VEN_0E11&DEV_B204&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1218
Base System Device  Not Available       UNKNOWN   Not
Available Not Available       Not Available       Not
Available Not Available
          PCI\VEN_0E11&DEV_B203&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1018
```

```
USB Root Hub        Yes       USB       5.2.3790.0
          10/1/2002 (Standard USB Host Controller)
          usbport.inf         Not Available
          USB\ROOT_HUB\5&194CD4CC&0
Standard OpenHCD USB Host Controller    Yes       USB
          5.2.3790.0          10/1/2002 (Standard USB
Host Controller)    usbport.inf         Not Available
          PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0118
USB Root Hub        Yes       USB       5.2.3790.0
          10/1/2002 (Standard USB Host Controller)
          usbport.inf         Not Available
          USB\ROOT_HUB\5&9B4CD91&0
Standard OpenHCD USB Host Controller    Yes       USB
          5.2.3790.0          10/1/2002 (Standard USB
Host Controller)    usbport.inf         Not Available
          PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0018
PCI standard PCI-to-PCI bridge          Yes
          SYSTEM    5.2.3790.0          10/1/2002
          (Standard system devices)     machine.inf
          Not Available
          PCI\VEN_1022&DEV_7460&SUBSYS_00000000&REV_0
7\3&20FEA912&0&18
PCI bus   Yes       SYSTEM    5.2.3790.0
          10/1/2002 (Standard system devices)
          machine.inf         Not Available
          ACPI\PNP0A03\7
Processor Yes       PROCESSOR 5.2.3790.1830
          10/1/2002 (Standard processor types)
          cpu.inf   Not Available
          ACPI\AUTHENTICAMD_-
_X86_FAMILY_15_MODEL_33\_3
Processor Yes       PROCESSOR 5.2.3790.1830
          10/1/2002 (Standard processor types)
          cpu.inf   Not Available
          ACPI\AUTHENTICAMD_-
_X86_FAMILY_15_MODEL_33\_2
Processor Yes       PROCESSOR 5.2.3790.1830
          10/1/2002 (Standard processor types)
          cpu.inf   Not Available
          ACPI\AUTHENTICAMD_-
_X86_FAMILY_15_MODEL_33\_1
Processor Yes       PROCESSOR 5.2.3790.1830
          10/1/2002 (Standard processor types)
          cpu.inf   Not Available
          ACPI\AUTHENTICAMD_-
_X86_FAMILY_15_MODEL_33\_0
Microsoft ACPI-Compliant System         Yes
          SYSTEM    5.2.3790.0          10/1/2002
          Microsoft acpi.inf  Not Available
          ACPI_HAL\PNP0C08\0
ACPI Multiprocessor PC        Not Available
          COMPUTER  Not Available       Not Available
          (Standard computers)          Not Available
          Not Available       ROOT\ACPI_HAL\0000
Not Available       Not Available       Not Available
          Not Available       Not Available       Not
Available Not Available       Not Available
          HTREE\ROOT\0
```

```
[Environment Variables]

Variable  Value     User Name
ClusterLog          C:\WINDOWS\Cluster\cluster.log
          <SYSTEM>
ComSpec   %SystemRoot%\system32\cmd.exe <SYSTEM>
FP_NO_HOST_CHECK    NO        <SYSTEM>
NUMBER_OF_PROCESSORS          4         <SYSTEM>
OS        Windows_NT          <SYSTEM>
Path      C:\Program Files\Microsoft Visual Studio
8\Common7\IDE\PrivateAssemblies\;C:\Program
Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\;C:\Program
Files\Microsoft SQL
Server\90\DTS\Binn\;%SystemRoot%\system32;%SystemRoot
%;%SystemRoot%\system32\WBEM;C:\Program
Files\Microsoft SQL
Server\MSSQL.1\MSSQL\Binn;C:\Program Files\Microsoft
SQL Server\MSSQL.1\MSSQL\Binn;C:\Program
Files\Microsoft SQL Server\90\Tools\binn\
          <SYSTEM>
PATHEXT
          .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF
;.WSH     <SYSTEM>
PROCESSOR_ARCHITECTURE        x86       <SYSTEM>
PROCESSOR_IDENTIFIER          x86 Family 15 Model 33
Stepping 2, AuthenticAMD      <SYSTEM>
PROCESSOR_LEVEL     15        <SYSTEM>
PROCESSOR_REVISION  2102      <SYSTEM>
TEMP      %SystemRoot%\TEMP   <SYSTEM>
TMP       %SystemRoot%\TEMP   <SYSTEM>
windir    %SystemRoot%        <SYSTEM>
lib       C:\Program Files\SQLXML 4.0\bin\
          <SYSTEM>
TEMP      %USERPROFILE%\Local Settings\Temp       NT
AUTHORITY\SYSTEM
TMP       %USERPROFILE%\Local Settings\Temp       NT
AUTHORITY\SYSTEM
TEMP      %USERPROFILE%\Local Settings\Temp       NT
AUTHORITY\LOCAL SERVICE
TMP       %USERPROFILE%\Local Settings\Temp       NT
AUTHORITY\LOCAL SERVICE
TEMP      %USERPROFILE%\Local Settings\Temp       NT
AUTHORITY\NETWORK SERVICE
TMP       %USERPROFILE%\Local Settings\Temp       NT
AUTHORITY\NETWORK SERVICE
TEMP      %USERPROFILE%\Local Settings\Temp
          FQ\Administrator
TMP       %USERPROFILE%\Local Settings\Temp
          FQ\Administrator

[Print Jobs]

Document  Size      Owner     Notify    Status
          Time Submitted      Start Time
          Until Time          Elapsed Time
          Pages Printed       Job ID    Priority
          Parameters          Driver    Print
Processor Host Print Queue    Data Type Name

[Network Connections]
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Local Name          Remote Name         Type
          Status    User Name
V:        \\n23\c$  Disk      Current Connection
          FQ\Administrator

[Running Tasks]

Name      Path      Process ID          Priority  Min
Working Set         Max Working Set     Start Time
          Version   Size      File Date
system idle process Not Available       0         0
          Not Available       Not Available       Not
Available Not Available       Not Available       Not
Available
system    Not Available       4         8         0
          1413120   Not Available       Not Available
          Not Available       Not Available
smss.exe  Not Available       844       11
          204800    1413120   9/2/2005 2:04 PM    Not
Available Not Available       Not Available
csrss.exe Not Available       908       13        Not
Available Not Available       9/2/2005 2:04 PM    Not
Available Not Available       Not Available
winlogon.exe        c:\windows\system32\winlogon.exe
          948       13        204800    1413120
          9/2/2005 2:04 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   497.00 KB (508,928
bytes)    6/3/2005 2:15 PM
services.exe        c:\windows\system32\services.exe
          992       9         204800    1413120
          9/2/2005 2:04 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   107.50 KB (110,080
bytes)    3/25/2003 6:00 AM
lsass.exe c:\windows\system32\lsass.exe 1004      9
          204800    1413120   9/2/2005 2:04 PM
          5.2.3790.0 (srv03_rtm.030324-2048)
          13.00 KB (13,312 bytes)       3/25/2003
6:00 AM
svchost.exe         c:\windows\system32\svchost.exe
          1208      8         204800    1413120
          9/2/2005 2:04 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   14.00 KB (14,336 bytes)
          6/3/2005 2:15 PM
svchost.exe         Not Available       1268      8
          Not Available       Not Available
          9/2/2005 2:04 PM    Not Available       Not
Available Not Available
svchost.exe         Not Available       1316      8
          Not Available       Not Available
          9/2/2005 2:04 PM    Not Available       Not
Available Not Available
svchost.exe         Not Available       1356      8
          Not Available       Not Available
          9/2/2005 2:04 PM    Not Available       Not
Available Not Available
svchost.exe         c:\windows\system32\svchost.exe
          1392      8         204800    1413120
          9/2/2005 2:04 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   14.00 KB (14,336 bytes)
          6/3/2005 2:15 PM
msdtc.exe Not Available       1756      8         Not
Available Not Available       9/2/2005 2:04 PM    Not
Available Not Available       Not Available
svchost.exe         c:\windows\system32\svchost.exe
          2000      8         204800    1413120
          9/2/2005 2:04 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   14.00 KB (14,336 bytes)
          6/3/2005 2:15 PM
svchost.exe         c:\windows\system32\svchost.exe
          476       8         204800    1413120
          9/2/2005 2:04 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   14.00 KB (14,336 bytes)
          6/3/2005 2:15 PM
wmiprvse.exe        Not Available       432       8
          Not Available       Not Available
          9/2/2005 2:05 PM    Not Available       Not
Available Not Available
csrss.exe Not Available       408       13        Not
Available Not Available       9/2/2005 2:06 PM    Not
Available Not Available       Not Available
winlogon.exe        c:\windows\system32\winlogon.exe
          208       13        204800    1413120
          9/2/2005 2:06 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   497.00 KB (508,928
bytes)    6/3/2005 2:15 PM
rdpclip.exe         c:\windows\system32\rdpclip.exe
          1428      8         204800    1413120
          9/2/2005 2:06 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   68.00 KB (69,632 bytes)
          6/3/2005 2:15 PM
explorer.exe        c:\windows\explorer.exe
          1732      8         204800    1413120
          9/2/2005 2:06 PM    6.00.3790.1830
(srv03_sp1_rtm.050324-1447)   1.00 MB (1,050,624
bytes)    6/3/2005 2:15 PM
logon.scr Not Available       2976      4         Not
Available Not Available       9/2/2005 3:19 PM    Not
Available Not Available       Not Available
svchost.exe         c:\windows\system32\svchost.exe
          2988      8         204800    1413120
          9/2/2005 4:13 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   14.00 KB (14,336 bytes)
          6/3/2005 2:15 PM
helpctr.exe
          c:\windows\pchealth\helpctr\binaries\helpct
r.exe     3280      8         204800    1413120
          9/6/2005 4:44 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   778.00 KB (796,672
bytes)    6/3/2005 2:16 PM
helpsvc.exe
          c:\windows\pchealth\helpctr\binaries\helpsv
c.exe     3416      8         204800    1413120
          9/6/2005 4:44 PM    5.2.3790.1830
(srv03_sp1_rtm.050324-1447)   745.00 KB (762,880
bytes)    6/3/2005 2:16 PM
wmiprvse.exe        Not Available       3392      8
          Not Available       Not Available
          9/6/2005 4:44 PM    Not Available       Not
Available Not Available

[Loaded Modules]

Name      Version   Size      File Date Manufacturer
          Path
winlogon  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          497.00 KB (508,928 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\winlogon.exe
ntdll     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          748.50 KB (766,464 bytes)     3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\ntdll.dll
kernel32  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          1,014.00 KB (1,038,336 bytes) 6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\kernel32.dll
advapi32  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          605.50 KB (620,032 bytes)     3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\advapi32.dll
rpcrt4    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          627.00 KB (642,048 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\rpcrt4.dll
crypt32   5.131.3790.1830 (srv03_sp1_rtm.050324-1447)
          582.00 KB (595,968 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\crypt32.dll
msasn1    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          56.50 KB (57,856 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\msasn1.dll
msvcrt    7.0.3790.1830 (srv03_sp1_rtm.050324-1447)
          340.50 KB (348,672 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\msvcrt.dll
user32    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          574.50 KB (588,288 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\user32.dll
gdi32     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          273.00 KB (279,552 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\gdi32.dll
nddeapi   5.2.3790.0 (srv03_rtm.030324-2048)
          16.00 KB (16,384 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\nddeapi.dll
profmap   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          22.50 KB (23,040 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\profmap.dll
netapi32  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          341.50 KB (349,696 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\netapi32.dll
userenv   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          771.00 KB (789,504 bytes)     3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\userenv.dll
psapi     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          20.00 KB (20,480 bytes)       6/3/2005 2:15
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
PM          Microsoft Corporation
            c:\windows\system32\psapi.dll
regapi      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            55.00 KB (56,320 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\regapi.dll
secur32     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            64.00 KB (65,536 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\secur32.dll
setupapi    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            1.03 MB (1,079,808 bytes)     3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\setupapi.dll
version     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            18.00 KB (18,432 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\version.dll
winsta      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            54.50 KB (55,808 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\winsta.dll
ws2_32      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            82.00 KB (83,968 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\ws2_32.dll
ws2help     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            19.50 KB (19,968 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\ws2help.dll
msgina      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            1.16 MB (1,211,904 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\msgina.dll
shsvcs      6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            131.50 KB (134,656 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\shsvcs.dll
shlwapi     6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            313.50 KB (321,024 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\shlwapi.dll
sfc         5.2.3790.0 (srv03_rtm.030324-2048)
            4.50 KB (4,608 bytes)         3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\sfc.dll
sfc_os      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            138.00 KB (141,312 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\sfc_os.dll
wintrust    5.131.3790.1830 (srv03_sp1_rtm.050324-1447)
            162.00 KB (165,888 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\wintrust.dll
imagehlp    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            145.50 KB (148,992 bytes)     3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\imagehlp.dll
ole32       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            1.19 MB (1,245,184 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\ole32.dll
comctl32    6.0 (srv03_sp1_rtm.050324-1447)
            1.00 MB (1,051,136 bytes)     3/24/2005
8:41 PM     Microsoft Corporation
            c:\windows\winsxs\x86_microsoft.windows.com
mon-controls_6595b64144ccf1df_6.0.3790.1830_x-
ww_7ae38ccf\comctl32.dll
winscard    5.2.3790.0 (srv03_rtm.030324-2048)
            98.50 KB (100,864 bytes)      3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\winscard.dll
wtsapi32    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            19.00 KB (19,456 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\wtsapi32.dll
sxs         5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            743.50 KB (761,344 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\sxs.dll
winmm       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            172.50 KB (176,640 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\winmm.dll
shell32     6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            7.99 MB (8,379,392 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\shell32.dll
rsaenh      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            183.98 KB (188,392 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\rsaenh.dll
wldap32     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            174.50 KB (178,688 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\wldap32.dll
cscdll      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            100.00 KB (102,400 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\cscdll.dll
dimsntfy    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            19.00 KB (19,456 bytes)       6/3/2005 2:18
PM          Microsoft Corporation
            c:\windows\system32\dimsntfy.dll
wlnotify    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            94.50 KB (96,768 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\wlnotify.dll
mpr         5.2.3790.0 (srv03_rtm.030324-2048)
            56.00 KB (57,344 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\mpr.dll
oleaut32    5.2.3790.1830       543.00 KB (556,032
bytes)      3/25/2003 6:00 AM   Microsoft Corporation
            c:\windows\system32\oleaut32.dll
winspool    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            147.00 KB (150,528 bytes)     3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\winspool.drv
comctl32    5.82 (srv03_sp1_rtm.050324-1447)
            585.00 KB (599,040 bytes)     3/24/2005
8:41 PM     Microsoft Corporation
            c:\windows\winsxs\x86_microsoft.windows.com
mon-controls_6595b64144ccf1df_5.82.3790.1830_x-
ww_1b6f474a\comctl32.dll
uxtheme     6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            202.00 KB (206,848 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\uxtheme.dll
samlib      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            46.50 KB (47,616 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\samlib.dll
clbcatq     2001.12.4720.1830 (srv03_sp1_rtm.050324-
1447)       502.50 KB (514,560 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\clbcatq.dll
comres      2001.12.4720.0 (srv03_rtm.030324-2048)
            778.00 KB (796,672 bytes)     3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\comres.dll
xpsp2res    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            2.76 MB (2,897,920 bytes)     6/3/2005 2:18
PM          Microsoft Corporation
            c:\windows\system32\xpsp2res.dll
ntmarta     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            120.50 KB (123,392 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\ntmarta.dll
authz       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            66.50 KB (68,096 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\authz.dll
cryptnet    5.131.3790.1830 (srv03_sp1_rtm.050324-1447)
            61.00 KB (62,464 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\cryptnet.dll
sensapi     5.2.3790.0 (srv03_rtm.030324-2048)
            6.00 KB (6,144 bytes)         3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\sensapi.dll
sclgntfy    5.2.3790.0 (srv03_rtm.030324-2048)
            19.50 KB (19,968 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\sclgntfy.dll
drprov      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            14.00 KB (14,336 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\drprov.dll
ntlanman    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            43.50 KB (44,544 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\ntlanman.dll
netui0      5.2.3790.0 (srv03_rtm.030324-2048)
            75.50 KB (77,312 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\netui0.dll
netui1      5.2.3790.0 (srv03_rtm.030324-2048)
            184.00 KB (188,416 bytes)     3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\netui1.dll
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
davclnt   5.2.3790.0 (srv03_rtm.030324-2048)
          23.50 KB (24,064 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\davclnt.dll
rasapi32  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          239.50 KB (245,248 bytes)     3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\rasapi32.dll
rasman    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          61.50 KB (62,976 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\rasman.dll
tapi32    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          179.50 KB (183,808 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\tapi32.dll
rtutils   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          34.50 KB (35,328 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\rtutils.dll
msv1_0    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          141.00 KB (144,384 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\msv1_0.dll
iphlpapi  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          92.50 KB (94,720 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\iphlpapi.dll
wbemprox  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          20.50 KB (20,992 bytes)       6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\wbemprox.dll
wbemcomn  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          221.00 KB (226,304 bytes)     6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\wbemcomn.dll
wbemsvc   5.2.3790.0 (srv03_rtm.030324-2048)
          42.50 KB (43,520 bytes)       6/3/2005
11:30 AM  Microsoft Corporation
          c:\windows\system32\wbem\wbemsvc.dll
fastprox  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          471.00 KB (482,304 bytes)     6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\fastprox.dll
msvcp60   6.05.2144.0         388.00 KB (397,312
bytes)    3/25/2003 6:00 AM   Microsoft Corporation
          c:\windows\system32\msvcp60.dll
ntdsapi   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          71.00 KB (72,704 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\ntdsapi.dll
dnsapi    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          153.50 KB (157,184 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\dnsapi.dll
services  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          107.50 KB (110,080 bytes)     3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\services.exe
ncobjapi  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          36.00 KB (36,864 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\ncobjapi.dll
scesrv    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          327.00 KB (334,848 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\scesrv.dll
umpnpmgr  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          126.50 KB (129,536 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\umpnpmgr.dll
eventlog  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          67.50 KB (69,120 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\eventlog.dll
lsass     5.2.3790.0 (srv03_rtm.030324-2048)
          13.00 KB (13,312 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\lsass.exe
lsasrv    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          803.00 KB (822,272 bytes)     3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\lsasrv.dll
samsrv    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          450.50 KB (461,312 bytes)     3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\samsrv.dll
cryptdll  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          32.00 KB (32,768 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\cryptdll.dll
msprivs   5.2.3790.0 (srv03_rtm.030324-2048)
          46.50 KB (47,616 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\msprivs.dll
kerberos  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          340.50 KB (348,672 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\kerberos.dll
netlogon  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          409.50 KB (419,328 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\netlogon.dll
w32time   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          222.00 KB (227,328 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\w32time.dll
schannel  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          141.00 KB (144,384 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\schannel.dll
wdigest   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          74.00 KB (75,776 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\wdigest.dll
rassfm    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          23.00 KB (23,552 bytes)       6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\rassfm.dll
kdcsvc    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          213.50 KB (218,624 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\kdcsvc.dll
ntdsa     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          1.45 MB (1,516,032 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\ntdsa.dll
esent     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          1,022.50 KB (1,047,040 bytes) 6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\esent.dll
ntdsatq   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          29.50 KB (30,208 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\ntdsatq.dll
mswsock   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          250.50 KB (256,512 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\mswsock.dll
scecli    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          186.50 KB (190,976 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\scecli.dll
ws03res   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          793.50 KB (812,544 bytes)     6/3/2005 2:18
PM        Microsoft Corporation
          c:\windows\system32\ws03res.dll
pstorsvc  5.2.3790.0 (srv03_rtm.030324-2048)
          24.00 KB (24,576 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\pstorsvc.dll
psbase    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          84.00 KB (86,016 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\psbase.dll
hnetcfg   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          343.50 KB (351,744 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\hnetcfg.dll
wshtcpip  5.2.3790.0 (srv03_rtm.030324-2048)
          18.00 KB (18,432 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\wshtcpip.dll
dssenh    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          139.98 KB (143,336 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\dssenh.dll
svchost   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          14.00 KB (14,336 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\svchost.exe
rpcss     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          406.00 KB (415,744 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\rpcss.dll
audiosrv  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          40.50 KB (41,472 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\audiosrv.dll
wkssvc    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          130.00 KB (133,120 bytes)     3/25/2003
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
6:00 AM   Microsoft Corporation
          c:\windows\system32\wkssvc.dll
wiarpc    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          32.50 KB (33,280 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\wiarpc.dll
aelupsvc  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          26.00 KB (26,624 bytes)       6/3/2005 2:18
PM        Microsoft Corporation
          c:\windows\system32\aelupsvc.dll
apphelp   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          146.50 KB (150,016 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\apphelp.dll
cryptsvc  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          55.50 KB (56,832 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\cryptsvc.dll
certcli   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          227.00 KB (232,448 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\certcli.dll
atl       3.05.2283 83.00 KB (84,992 bytes)
          3/25/2003 6:00 AM   Microsoft Corporation
          c:\windows\system32\atl.dll
vssapi    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          548.00 KB (561,152 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\vssapi.dll
dmserver  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          25.50 KB (26,112 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\dmserver.dll
es        2001.12.4720.1830 (srv03_sp1_rtm.050324-
1447)     233.00 KB (238,592 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\es.dll
pchsvc    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          39.00 KB (39,936 bytes)       6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\pchealth\helpctr\binaries\pchsvc
.dll
srvsvc    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          93.50 KB (95,744 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\srvsvc.dll
wmisvc    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          140.00 KB (143,360 bytes)     6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\wmisvc.dll
sens      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          36.50 KB (37,376 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\sens.dll
comsvcs   2001.12.4720.1830 (srv03_sp1_rtm.050324-
1447)     1.19 MB (1,248,256 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\comsvcs.dll
browser   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          76.50 KB (78,336 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\browser.dll
netrap    5.2.3790.0 (srv03_rtm.030324-2048)
          11.50 KB (11,776 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\netrap.dll
wbemcore  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          497.50 KB (509,440 bytes)     6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\wbemcore.dll
esscli    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          250.00 KB (256,000 bytes)     6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\esscli.dll
wmiutils  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          93.50 KB (95,744 bytes)       6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\wmiutils.dll
repdrvfs  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          172.50 KB (176,640 bytes)     6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\repdrvfs.dll
wmiprvsd  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          404.00 KB (413,696 bytes)     6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\wmiprvsd.dll
wbemess   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          271.50 KB (278,016 bytes)     6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\wbemess.dll
ncprov    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          46.50 KB (47,616 bytes)       6/3/2005 2:16
PM        Microsoft Corporation
          c:\windows\system32\wbem\ncprov.dll
netman    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          258.50 KB (264,704 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\netman.dll
mprapi    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          89.00 KB (91,136 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\mprapi.dll
activeds  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          194.00 KB (198,656 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\activeds.dll
adsldpc   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          146.00 KB (149,504 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\adsldpc.dll
credui    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          162.00 KB (165,888 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\credui.dll
netshell  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          1.73 MB (1,812,992 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\netshell.dll
clusapi   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          60.00 KB (61,440 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\clusapi.dll
wininet   6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
          646.00 KB (661,504 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\wininet.dll
wzcsapi   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          41.00 KB (41,984 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\wzcsapi.dll
wzcsvc    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          364.50 KB (373,248 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\wzcsvc.dll
wmi       5.2.3790.0 (srv03_rtm.030324-2048)
          6.50 KB (6,656 bytes)         3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\wmi.dll
dhcpcsvc  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          113.50 KB (116,224 bytes)     3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\dhcpcsvc.dll
netcfgx   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          763.00 KB (781,312 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\netcfgx.dll
winipsec  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          35.50 KB (36,352 bytes)       6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\winipsec.dll
rasmans   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          176.00 KB (180,224 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\rasmans.dll
ntlsapi   5.2.3790.0 (srv03_rtm.030324-2048)
          8.00 KB (8,192 bytes)         3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\ntlsapi.dll
rasdlg    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          663.00 KB (678,912 bytes)     3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\rasdlg.dll
rasadhlp  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          7.50 KB (7,680 bytes)         6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\rasadhlp.dll
rastapi   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          62.00 KB (63,488 bytes)       3/25/2003
6:00 AM   Microsoft Corporation
          c:\windows\system32\rastapi.dll
rasppp    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          205.00 KB (209,920 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\rasppp.dll
raschap   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          119.50 KB (122,368 bytes)     6/3/2005 2:15
PM        Microsoft Corporation
          c:\windows\system32\raschap.dll
rastls    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
          180.00 KB (184,320 bytes)     6/3/2005 2:15
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
PM          Microsoft Corporation
            c:\windows\system32\rastls.dll
cryptui     5.131.3790.1830 (srv03_sp1_rtm.050324-1447)
            496.50 KB (508,416 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\cryptui.dll
ipbootp     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            36.00 KB (36,864 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\ipbootp.dll
xactsrv     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            90.00 KB (92,160 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\xactsrv.dll
ersvc       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            24.00 KB (24,576 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\ersvc.dll
termsrv     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            239.00 KB (244,736 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\termsrv.dll
icaapi      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            12.50 KB (12,800 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\icaapi.dll
mstlsapi    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            116.00 KB (118,784 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\mstlsapi.dll
rdpwsx      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            101.63 KB (104,072 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\rdpwsx.dll
rdpsnd      5.2.3790.0 (srv03_rtm.030324-2048)
            18.00 KB (18,432 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\rdpsnd.dll
scredir     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            28.00 KB (28,672 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\scredir.dll
cscui       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            319.50 KB (327,168 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\cscui.dll
msacm32     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            22.00 KB (22,528 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\msacm32.drv
msacm32     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            69.50 KB (71,168 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\msacm32.dll
imaadp32    5.2.3790.0 (srv03_rtm.030324-2048)
            15.50 KB (15,872 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\imaadp32.acm
msadp32     5.2.3790.0 (srv03_rtm.030324-2048)
            14.50 KB (14,848 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\msadp32.acm
msg711      5.2.3790.0 (srv03_rtm.030324-2048)
            10.00 KB (10,240 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\msg711.acm
msgsm32     5.2.3790.0 (srv03_rtm.030324-2048)
            20.50 KB (20,992 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\msgsm32.acm
tssoft32    1.01      9.50 KB (9,728 bytes)
            3/25/2003 6:00 AM   DSP GROUP, INC.
            c:\windows\system32\tssoft32.acm
tsd32       1.03      16.50 KB (16,896 bytes)
            3/25/2003 6:00 AM   DSP GROUP, INC.
            c:\windows\system32\tsd32.dll
msg723      5.2.3790.1830       120.00 KB (122,880
bytes)      6/3/2005 2:15 PM    Microsoft Corporation
            c:\windows\system32\msg723.acm
msaud32     8.00.00.4487        288.00 KB (294,912
bytes)      3/25/2003 6:00 AM   Microsoft Corporation
            c:\windows\system32\msaud32.acm
sl_anet     3.02      84.00 KB (86,016 bytes)
            3/25/2003 6:00 AM   Sipro Lab Telecom Inc.
            c:\windows\system32\sl_anet.acm
l3codeca    1, 9, 0, 0305       284.00 KB (290,816
bytes)      3/25/2003 6:00 AM   Fraunhofer Institut
Integrierte Schaltungen IIS
            c:\windows\system32\l3codeca.acm
rdpclip     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            68.00 KB (69,632 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\rdpclip.exe
wsock32     5.2.3790.0 (srv03_rtm.030324-2048)
            22.00 KB (22,528 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\wsock32.dll
urlmon      6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            673.00 KB (689,152 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\urlmon.dll
explorer    6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            1.00 MB (1,050,624 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\explorer.exe
browseui    6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            1,009.00 KB (1,033,216 bytes) 6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\browseui.dll
shdocvw     6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            1.43 MB (1,502,720 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\shdocvw.dll
themeui     6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            377.50 KB (386,560 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\themeui.dll
msimg32     5.2.3790.0 (srv03_rtm.030324-2048)
            4.50 KB (4,608 bytes)         3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\msimg32.dll
linkinfo    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            19.00 KB (19,456 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\linkinfo.dll
ntshrui     6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            140.00 KB (143,360 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\ntshrui.dll
browselc    6.00.3790.0 (srv03_rtm.030324-2048)
            62.00 KB (63,488 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\browselc.dll
shdoclc     6.00.3790.0 (srv03_rtm.030324-2048)
            588.50 KB (602,624 bytes)     3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\shdoclc.dll
mlang       6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            577.50 KB (591,360 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\mlang.dll
webcheck    6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            272.50 KB (279,040 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\webcheck.dll
stobject    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            120.50 KB (123,392 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\stobject.dll
batmeter    6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            31.50 KB (32,256 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\batmeter.dll
powrprof    6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            16.50 KB (16,896 bytes)       6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\powrprof.dll
mprui       5.2.3790.0 (srv03_rtm.030324-2048)
            49.00 KB (50,176 bytes)       3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\mprui.dll
netui2      5.2.3790.0 (srv03_rtm.030324-2048)
            309.50 KB (316,928 bytes)     3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\netui2.dll
comdlg32    6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            274.50 KB (281,088 bytes)     3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\comdlg32.dll
netmsg      5.2.3790.0 (srv03_rtm.030324-2048)
            178.00 KB (182,272 bytes)     3/25/2003
6:00 AM     Microsoft Corporation
            c:\windows\system32\netmsg.dll
netplwiz    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
            855.00 KB (875,520 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\netplwiz.dll
zipfldr     6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
            333.50 KB (341,504 bytes)     6/3/2005 2:15
PM          Microsoft Corporation
            c:\windows\system32\zipfldr.dll
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
tapisrv    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           248.50 KB (254,464 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\tapisrv.dll
unimdm     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           203.00 KB (207,872 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\unimdm.tsp
uniplat    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           13.00 KB (13,312 bytes)        6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\uniplat.dll
kmddsp     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           34.50 KB (35,328 bytes)        6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\kmddsp.tsp
ndptsp     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           47.00 KB (48,128 bytes)        6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\ndptsp.tsp
ipconf     5.2.3790.0 (srv03_rtm.030324-2048)
           16.50 KB (16,896 bytes)        3/25/2003
6:00 AM    Microsoft Corporation
           c:\windows\system32\ipconf.tsp
h323       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           259.50 KB (265,728 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\h323.tsp
hidphone   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           29.50 KB (30,208 bytes)        6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\hidphone.tsp
hid        5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           18.50 KB (18,944 bytes)        6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\hid.dll
helpctr    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           778.00 KB (796,672 bytes)      6/3/2005 2:16
PM         Microsoft Corporation
           c:\windows\pchealth\helpctr\binaries\helpct
r.exe
hcappres   5.2.3790.0 (srv03_rtm.030324-2048)
           6.50 KB (6,656 bytes)          6/3/2005
11:33 AM   Microsoft Corporation
           c:\windows\pchealth\helpctr\binaries\hcappr
es.dll
itss       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           133.50 KB (136,704 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\itss.dll
msxml3     8.70.1104.0          1.06 MB (1,107,456
bytes)     6/3/2005 2:15 PM     Microsoft Corporation
           c:\windows\system32\msxml3.dll
pchshell   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           104.50 KB (107,008 bytes)      6/3/2005 2:16
PM         Microsoft Corporation
           c:\windows\pchealth\helpctr\binaries\pchshe
ll.dll
mshtml     6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
           2.96 MB (3,108,864 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\mshtml.dll
msls31     3.10.349.0           142.00 KB (145,408
bytes)     6/3/2005 2:15 PM     Microsoft Corporation
           c:\windows\system32\msls31.dll
msimtf     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           156.00 KB (159,744 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\msimtf.dll
msctf      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           311.00 KB (318,464 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\msctf.dll
jscript    5.6.0.8827           448.00 KB (458,752
bytes)     6/3/2005 2:15 PM     Microsoft Corporation
           c:\windows\system32\jscript.dll
imm32      5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           108.00 KB (110,592 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\imm32.dll
mshtmled   6.00.3790.1830 (srv03_sp1_rtm.050324-1447)
           454.50 KB (465,408 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\mshtmled.dll
vbscript   5.6.0.8827           392.00 KB (401,408
bytes)     6/3/2005 2:15 PM     Microsoft Corporation
           c:\windows\system32\vbscript.dll
msinfo     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           376.00 KB (385,024 bytes)      6/3/2005 2:16
PM         Microsoft Corporation
           c:\windows\pchealth\helpctr\binaries\msinfo
.dll
mfc42u     6.06.8063.0          1.11 MB (1,163,776
bytes)     6/3/2005 2:15 PM     Microsoft Corporation
           c:\windows\system32\mfc42u.dll
odbc32     3.526.1830.0 (srv03_sp1_rtm.050324-1447)
           240.00 KB (245,760 bytes)      6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\odbc32.dll
odbcint    3.526.1830.0 (srv03_sp1_rtm.050324-1447)
           92.00 KB (94,208 bytes)        6/3/2005 2:15
PM         Microsoft Corporation
           c:\windows\system32\odbcint.dll
riched32   5.2.3790.0 (srv03_rtm.030324-2048)
           3.50 KB (3,584 bytes)          3/25/2003
6:00 AM    Microsoft Corporation
           c:\windows\system32\riched32.dll
riched20   5.31.23.1224         439.00 KB (449,536
bytes)     6/3/2005 2:15 PM     Microsoft Corporation
           c:\windows\system32\riched20.dll
helpsvc    5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
           745.00 KB (762,880 bytes)      6/3/2005 2:16
PM         Microsoft Corporation
           c:\windows\pchealth\helpctr\binaries\helpsv
c.exe

[Services]

Display Name         Name       State      Start Mode
           Service Type         Path       Error Control
           Start Name           Tag ID
Application Experience Lookup Service   AeLookupSvc
           Running   Auto       Share Process
           c:\windows\system32\svchost.exe -k netsvcs
           Normal    LocalSystem          0
Alerter    Alerter   Stopped    Disabled   Share Process
           c:\windows\system32\svchost.exe -k
localservice         Normal     NT
AUTHORITY\LocalService         0
Application Layer Gateway Service       ALG
           Stopped   Manual     Own Process
           c:\windows\system32\alg.exe    Normal     NT
AUTHORITY\LocalService         0
Application Management         AppMgmt    Stopped
           Manual    Share Process
           c:\windows\system32\svchost.exe -k netsvcs
           Normal    LocalSystem          0
ASP.NET State Service          aspnet_state
           Stopped   Manual     Own Process
           c:\windows\microsoft.net\framework\v2.0.502
15\aspnet_state.exe Normal     NT
AUTHORITY\NetworkService       0
Windows Audio        AudioSrv   Running    Auto
           Share Process
           c:\windows\system32\svchost.exe -k netsvcs
           Normal    LocalSystem          0
Background Intelligent Transfer Service BITS
           Stopped   Manual     Share Process
           c:\windows\system32\svchost.exe -k netsvcs
           Normal    LocalSystem          0
Computer Browser     Browser    Running    Auto
           Share Process
           c:\windows\system32\svchost.exe -k netsvcs
           Normal    LocalSystem          0
Indexing Service     CiSvc      Stopped    Disabled
           Share Process
           c:\windows\system32\cisvc.exe Normal
           LocalSystem          0
ClipBook   ClipSrv    Stopped    Disabled   Own Process
           c:\windows\system32\clipsrv.exe
           Normal    LocalSystem          0
.NET Runtime Optimization Service v2.0.50215_X86
           clr_optimization_v2.0.50215_32
           Stopped   Manual     Own Process
           c:\windows\microsoft.net\framework\v2.0.502
15\mscorsvw.exe      Ignore     LocalSystem          0

COM+ System Application        COMSysApp  Stopped
           Manual    Own Process
           c:\windows\system32\dllhost.exe
/processid:{02d4b3f1-fd88-11d1-960d-00805fc79235}
           Normal    LocalSystem          0
Cryptographic Services         CryptSvc   Running
           Auto      Share Process
           c:\windows\system32\svchost.exe -k netsvcs
           Normal    LocalSystem          0
DCOM Server Process Launcher   DcomLaunch
           Running   Auto       Share Process
           c:\windows\system32\svchost.exe -k
dcomlaunch           Normal     LocalSystem          0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Distributed File System       Dfs       Stopped
          Manual    Own Process
          c:\windows\system32\dfssvc.exe
          Normal    LocalSystem         0
DHCP Client         Dhcp      Stopped   Disabled
          Share Process
          c:\windows\system32\svchost.exe -k
networkservice      Normal    NT
AUTHORITY\NetworkService      0
Logical Disk Manager Administrative Service
          dmadmin   Stopped   Manual    Share Process
          c:\windows\system32\dmadmin.exe /com
          Normal    LocalSystem         0
Logical Disk Manager          dmserver  Running
          Auto      Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
DNS Client          Dnscache  Running   Auto
          Share Process
          c:\windows\system32\svchost.exe -k
networkservice      Normal    NT
AUTHORITY\NetworkService      0
Error Reporting Service       ERSvc     Running
          Auto      Share Process
          c:\windows\system32\svchost.exe -k winerr
          Ignore    LocalSystem         0
Event Log Eventlog  Running   Auto      Share Process
          c:\windows\system32\services.exe
          Normal    LocalSystem         0
COM+ Event System   EventSystem         Running
          Auto      Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Help and Support    helpsvc   Running   Auto
          Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Human Interface Device Access HidServ   Stopped
          Disabled  Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
HTTP SSL  HTTPFilter          Stopped   Manual
          Share Process
          c:\windows\system32\lsass.exe Normal
          LocalSystem         0
IMAPI CD-Burning COM Service  ImapiService
          Stopped   Disabled  Own Process
          c:\windows\system32\imapi.exe Normal
          LocalSystem         0
Intersite Messaging IsmServ   Stopped   Disabled  Own
Process   c:\windows\system32\ismserv.exe
          Normal    LocalSystem         0
Kerberos Key Distribution Center        kdc
          Stopped   Disabled  Share Process
          c:\windows\system32\lsass.exe Normal
          LocalSystem         0
Server    lanmanserver        Running   Auto
          Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Workstation         lanmanworkstation   Running
          Auto      Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
License Logging     LicenseService      Stopped
          Disabled  Own Process
          c:\windows\system32\llssrv.exe
          Normal    NT AUTHORITY\NetworkService   0

TCP/IP NetBIOS Helper         LmHosts   Running
          Auto      Share Process
          c:\windows\system32\svchost.exe -k
localservice        Normal    NT
AUTHORITY\LocalService        0
Messenger Messenger Stopped   Disabled  Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
NetMeeting Remote Desktop Sharing       mnmsrvc
          Stopped   Manual    Own Process
          c:\windows\system32\mnmsrvc.exe
          Normal    LocalSystem         0
Distributed Transaction Coordinator     MSDTC
          Running   Auto      Own Process
          c:\windows\system32\msdtc.exe Normal    NT
AUTHORITY\NetworkService      1
msftesql  msftesql  Stopped   Disabled  Own Process
          "c:\program files\microsoft sql
server\mssql.1\mssql\binn\msftesql.exe" -s:mssql.1 -
f:mssqlserver       Normal    LocalSystem         0

Windows Installer   MSIServer Stopped   Manual
          Share Process
          c:\windows\system32\msiexec.exe /v
          Normal    LocalSystem         0
SQL Server (MSSQLSERVER)      MSSQLSERVER
          Stopped   Manual    Own Process
          "c:\program files\microsoft sql
server\mssql.1\mssql\binn\sqlservr.exe" -smssqlserver
          Normal    LocalSystem         0
SQL Server Active Directory Helper
          MSSQLServerADHelper Stopped   Disabled  Own
Process   "c:\program files\microsoft sql
server\90\shared\sqladhlp90.exe"        Normal    NT
AUTHORITY\NETWORK SERVICE     0
Network DDE         NetDDE    Stopped   Disabled
          Share Process
          c:\windows\system32\netdde.exe
          Normal    LocalSystem         0
Network DDE DSDM    NetDDEdsdm          Stopped
          Disabled  Share Process
          c:\windows\system32\netdde.exe
          Normal    LocalSystem         0
Net Logon Netlogon  Stopped   Manual    Share Process
          c:\windows\system32\lsass.exe Normal
          LocalSystem         0
Network Connections Netman    Running   Manual
          Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Network Location Awareness (NLA)        Nla
          Running   Manual    Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
File Replication    NtFrs     Stopped   Manual    Own
Process   c:\windows\system32\ntfrs.exe Ignore
          LocalSystem         0
NT LM Security Support Provider         NtLmSsp
          Stopped   Manual    Share Process
          c:\windows\system32\lsass.exe Normal
          LocalSystem         0
Removable Storage   NtmsSvc   Stopped   Manual
          Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Office Source Engine          ose       Stopped
          Manual    Own Process         "c:\program
files\common files\microsoft shared\source
engine\ose.exe"     Normal    LocalSystem         0

Plug and Play       PlugPlay  Running   Auto
          Share Process
          c:\windows\system32\services.exe
          Normal    LocalSystem         0
IPSEC Services      PolicyAgent         Stopped
          Disabled  Share Process
          c:\windows\system32\lsass.exe Normal
          LocalSystem         0
Protected Storage   ProtectedStorage    Running
          Auto      Share Process
          c:\windows\system32\lsass.exe Normal
          LocalSystem         0
Remote Access Auto Connection Manager   RasAuto
          Stopped   Manual    Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Remote Access Connection Manager        RasMan
          Running   Manual    Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Remote Desktop Help Session Manager     RDSessMgr
          Stopped   Manual    Own Process
          c:\windows\system32\sessmgr.exe
          Normal    LocalSystem         0
Routing and Remote Access     RemoteAccess
          Stopped   Disabled  Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Remote Registry     RemoteRegistry      Stopped
          Disabled  Share Process
          c:\windows\system32\svchost.exe -k regsvc
          Normal    NT AUTHORITY\LocalService     0

Remote Procedure Call (RPC) Locator     RpcLocator
          Stopped   Manual    Own Process
          c:\windows\system32\locator.exe
          Normal    NT AUTHORITY\NetworkService   0

Remote Procedure Call (RPC)   RpcSs     Running
          Auto      Share Process
          c:\windows\system32\svchost.exe -k rpcss
          Normal    NT Authority\NetworkService   0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Resultant Set of Policy Provider        RSoPProv
          Stopped   Manual    Share Process
          c:\windows\system32\rsopprov.exe
          Normal    LocalSystem         0
Special Administration Console Helper   sacsvr
          Stopped   Manual    Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Security Accounts Manager     SamSs     Running
          Auto      Share Process
          c:\windows\system32\lsass.exe Normal
          LocalSystem         0
Smart Card          SCardSvr  Stopped   Manual
          Share Process
          c:\windows\system32\scardsvr.exe
          Ignore    NT AUTHORITY\LocalService     0

Task Scheduler      Schedule  Stopped   Disabled
          Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Secondary Logon     seclogon  Stopped   Disabled
          Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Ignore    LocalSystem         0
System Event Notification     SENS      Running
          Auto      Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Windows Firewall/Internet Connection Sharing (ICS)
          SharedAccess        Stopped   Disabled
          Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Shell Hardware Detection      ShellHWDetection
          Running   Auto      Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Ignore    LocalSystem         0
Print Spooler       Spooler   Stopped   Disabled  Own
Process   c:\windows\system32\spoolsv.exe
          Normal    LocalSystem         0
SQL Server Browser  SQLBrowser          Stopped
          Disabled  Own Process         "c:\program
files\microsoft sql server\90\shared\sqlbrowser.exe"
          Normal    NT AUTHORITY\LOCAL SERVICE    0

SQL Server Agent (MSSQLSERVER)
          SQLSERVERAGENT      Stopped   Disabled  Own
Process   "c:\program files\microsoft sql
server\mssql.1\mssql\binn\sqlagent90.exe" -i
mssqlserver         Normal    LocalSystem         0

SQL Server VSS Writer         SQLWriter Stopped
          Disabled  Own Process         "c:\program
files\microsoft sql server\90\shared\sqlwriter.exe"
          Normal    LocalSystem         0
Windows Image Acquisition (WIA)         stisvc
          Stopped   Disabled  Share Process
          c:\windows\system32\svchost.exe -k imgsvc
          Normal    NT AUTHORITY\LocalService     0
```

```
Microsoft Software Shadow Copy Provider swprv
          Stopped   Manual    Own Process
          c:\windows\system32\svchost.exe -k swprv
          Normal    LocalSystem         0
Performance Logs and Alerts   SysmonLog Stopped
          Manual    Own Process
          c:\windows\system32\smlogsvc.exe
          Normal    NT Authority\NetworkService   0

Telephony TapiSrv   Running   Manual    Share Process
          c:\windows\system32\svchost.exe -k tapisrv
          Normal    LocalSystem         0
Terminal Services   TermService         Running
          Manual    Share Process
          c:\windows\system32\svchost.exe -k termsvcs
          Normal    LocalSystem         0
Themes    Themes    Stopped   Disabled  Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Telnet    TlntSvr   Stopped   Disabled  Own Process
          c:\windows\system32\tlntsvr.exe
          Normal    NT AUTHORITY\LocalService     0

Distributed Link Tracking Server        TrkSvr
          Stopped   Disabled  Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Distributed Link Tracking Client        TrkWks
          Stopped   Disabled  Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Terminal Services Session Directory     Tssdis
          Stopped   Disabled  Own Process
          c:\windows\system32\tssdis.exe
          Normal    LocalSystem         0
Windows User Mode Driver Framework      UMWdf
          Stopped   Manual    Own Process
          c:\windows\system32\wdfmgr.exe
          Normal    NT AUTHORITY\LocalService     0

Upload Manager      uploadmgr Stopped   Manual
          Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Uninterruptible Power Supply  UPS       Stopped
          Manual    Own Process
          c:\windows\system32\ups.exe   Normal    NT
AUTHORITY\LocalService        0
Virtual Disk Service          vds       Stopped
          Manual    Own Process
          c:\windows\system32\vds.exe   Normal
          LocalSystem         0
Volume Shadow Copy  VSS       Stopped   Manual    Own
Process   c:\windows\system32\vssvc.exe Normal
          LocalSystem         0
Windows Time        W32Time   Running   Auto
          Share Process
          c:\windows\system32\svchost.exe -k
localservice        Normal    NT
AUTHORITY\LocalService        0
```

```
WebClient WebClient Stopped   Disabled  Share Process
          c:\windows\system32\svchost.exe -k
localservice        Normal    NT
AUTHORITY\LocalService        0
WinHTTP Web Proxy Auto-Discovery Service
          WinHttpAutoProxySvc Stopped   Manual
          Share Process
          c:\windows\system32\svchost.exe -k
localservice        Normal    NT
AUTHORITY\LocalService        0
Windows Management Instrumentation      winmgmt
          Running   Auto      Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Ignore    LocalSystem         0
Portable Media Serial Number Service    WmdmPmSN
          Stopped   Manual    Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Windows Management Instrumentation Driver Extensions
          Wmi       Stopped   Manual    Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
WMI Performance Adapter       WmiApSrv  Stopped
          Manual    Own Process
          c:\windows\system32\wbem\wmiapsrv.exe
          Normal    LocalSystem         0
Automatic Updates   wuauserv  Stopped   Disabled
          Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Wireless Configuration        WZCSVC    Stopped
          Disabled  Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0
Network Provisioning Service  xmlprov   Stopped
          Manual    Share Process
          c:\windows\system32\svchost.exe -k netsvcs
          Normal    LocalSystem         0

[Program Groups]

Group Name          Name      User Name
Accessories         Default User:Accessories
          Default User
Accessories\Accessibility     Default
User:Accessories\Accessibility          Default User

Accessories\Entertainment     Default
User:Accessories\Entertainment          Default User

Startup   Default User:Startup          Default User

Accessories         All Users:Accessories         All
Users
Accessories\Accessibility     All
Users:Accessories\Accessibility         All Users
Accessories\Communications    All
Users:Accessories\Communications        All Users
Accessories\Entertainment     All
Users:Accessories\Entertainment         All Users
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Accessories\System Tools      All
Users:Accessories\System Tools          All Users
Administrative Tools          All
Users:Administrative Tools    All Users
HP System Tools     All Users:HP System Tools     All
Users
HP System Tools\HP Array Configuration Utility    All
Users:HP System Tools\HP Array Configuration Utility
          All Users
HP System Tools\HP Array Diagnostic Utility       All
Users:HP System Tools\HP Array Diagnostic Utility All
Users
Microsoft SQL Server 2005 CTP All Users:Microsoft SQL
Server 2005 CTP     All Users
Microsoft SQL Server 2005 CTP\Analysis Services   All
Users:Microsoft SQL Server 2005 CTP\Analysis Services
          All Users
Microsoft SQL Server 2005 CTP\Configuration Tools All
Users:Microsoft SQL Server 2005 CTP\Configuration
Tools     All Users
Microsoft SQL Server 2005 CTP\Documentation and
Tutorials All Users:Microsoft SQL Server 2005
CTP\Documentation and Tutorials         All Users
Microsoft SQL Server 2005 CTP\Documentation and
Tutorials\Tutorials All Users:Microsoft SQL Server
2005 CTP\Documentation and Tutorials\Tutorials    All
Users
Microsoft SQL Server 2005 CTP\Performance Tools   All
Users:Microsoft SQL Server 2005 CTP\Performance Tools
          All Users
Microsoft Visual Studio 2005 Beta 2     All
Users:Microsoft Visual Studio 2005 Beta 2         All
Users
Startup   All Users:Startup   All Users
Accessories         NT AUTHORITY\SYSTEM:Accessories
          NT AUTHORITY\SYSTEM
Accessories\Accessibility     NT
AUTHORITY\SYSTEM:Accessories\Accessibility        NT
AUTHORITY\SYSTEM
Accessories\Entertainment     NT
AUTHORITY\SYSTEM:Accessories\Entertainment        NT
AUTHORITY\SYSTEM
Startup   NT AUTHORITY\SYSTEM:Startup   NT
AUTHORITY\SYSTEM
Accessories         FQ\Administrator:Accessories
          FQ\Administrator
Accessories\Accessibility
          FQ\Administrator:Accessories\Accessibility
          FQ\Administrator
Accessories\Entertainment
          FQ\Administrator:Accessories\Entertainment
          FQ\Administrator
Administrative Tools
          FQ\Administrator:Administrative Tools
          FQ\Administrator
Startup   FQ\Administrator:Startup
          FQ\Administrator

[Startup Programs]

Program   Command   User Name Location
desktop   desktop.ini         NT AUTHORITY\SYSTEM
          Startup
desktop   desktop.ini         FQ\Administrator
          Startup
desktop   desktop.ini         .DEFAULT  Startup
desktop   desktop.ini         All Users Common
Startup

[OLE Registration]

Object    Local Server
Sound (OLE2)        sndrec32.exe
Media Clip          mplay32.exe
Video Clip          mplay32.exe /avi
MIDI Sequence       mplay32.exe /mid
Sound     Not Available
Media Clip          Not Available
WordPad Document    "%programfiles%\windows
nt\accessories\wordpad.exe"
Windows Media Services DRM Storage object         Not
Available
DDSContainerCtl Class         Not Available
Bitmap Image        mspaint.exe

[Windows Error Reporting]

Time      Type      Details

[Internet Settings]



[Internet Explorer]

[ Following are sub-categories of this main category
]
[Summary]

Item      Value
Version   6.0.3790.1830
Build     63790.1830
Application Path    C:\Program Files\Internet
Explorer
Language  English (United States)
Active Printer      Not Available

Cipher Strength     128-bit
Content Advisor     Disabled
IEAK Install        No

[File Versions]

File      Version   Size      Date      Path
          Company
actxprxy.dll        6.0.3790.1830       97 KB
          3/24/2005 5:55:26 PM
          C:\WINDOWS\system32 Microsoft Corporation

advpack.dll         6.0.3790.1830       98 KB
          3/24/2005 5:55:28 PM
          C:\WINDOWS\system32 Microsoft Corporation

asctrls.ocx         6.0.3790.0          90 KB
          3/25/2003 7:00:00 AM
          C:\WINDOWS\system32 Microsoft Corporation

browselc.dll        6.0.3790.0          62 KB
          3/25/2003 7:00:00 AM
          C:\WINDOWS\system32 Microsoft Corporation

browseui.dll        6.0.3790.1830       1,009 KB
          3/24/2005 5:56:10 PM
          C:\WINDOWS\system32 Microsoft Corporation

cdfview.dll         6.0.3790.1830       149 KB
          3/24/2005 5:56:32 PM
          C:\WINDOWS\system32 Microsoft Corporation

comctl32.dll        5.82.3790.1830      585 KB
          3/24/2005 5:57:56 PM
          C:\WINDOWS\system32 Microsoft Corporation

dxtrans.dll         6.3.3790.1830       205 KB
          3/24/2005 6:00:58 PM
          C:\WINDOWS\system32 Microsoft Corporation

dxtmsft.dll         6.3.3790.1830       355 KB
          3/24/2005 6:00:58 PM
          C:\WINDOWS\system32 Microsoft Corporation

iecont.dll          <File Missing>      Not Available
          Not Available       Not Available       Not
Available
iecontlc.dll        <File Missing>      Not Available
          Not Available       Not Available       Not
Available
iedkcs32.dll        16.0.3790.1830      324 KB
          3/24/2005 6:04:58 PM
          C:\WINDOWS\system32 Microsoft Corporation

iepeers.dll         6.0.3790.1830       248 KB
          3/24/2005 6:04:58 PM
          C:\WINDOWS\system32 Microsoft Corporation

iesetup.dll         6.0.3790.1830       61 KB
          3/24/2005 6:04:58 PM
          C:\WINDOWS\system32 Microsoft Corporation

ieuinit.inf         Not Available       24 KB
          3/24/2005 6:04:58 PM
          C:\WINDOWS\system32 Not Available
iexplore.exe        6.0.3790.1830       92 KB
          3/24/2005 6:04:58 PM          C:\Program
Files\Internet Explorer       Microsoft Corporation

imgutil.dll         6.0.3790.1830       38 KB
          3/24/2005 6:05:04 PM
          C:\WINDOWS\system32 Microsoft Corporation

inetcpl.cpl         6.0.3790.1830       358 KB
          3/24/2005 6:05:06 PM
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
          C:\WINDOWS\system32 Microsoft Corporation

inetcplc.dll        6.0.3790.0          109 KB
          3/25/2003 7:00:00 AM
          C:\WINDOWS\system32 Microsoft Corporation

inseng.dll          6.0.3790.1830       94 KB
          3/24/2005 6:05:06 PM
          C:\WINDOWS\system32 Microsoft Corporation

mlang.dll 6.0.3790.1830       578 KB    3/24/2005
6:07:20 PM          C:\WINDOWS\system32 Microsoft
Corporation
msencode.dll        2002.10.4.0         112 KB
          3/25/2003 7:00:00 AM
          C:\WINDOWS\system32 ???U?w??
mshta.exe 6.0.3790.1830       30 KB     3/24/2005
6:07:26 PM          C:\WINDOWS\system32 Microsoft
Corporation
mshtml.dll          6.0.3790.1830       3,036 KB
          3/24/2005 6:07:26 PM
          C:\WINDOWS\system32 Microsoft Corporation

mshtml.tlb          6.0.3790.1830       1,320 KB
          3/24/2005 6:07:26 PM
          C:\WINDOWS\system32 Microsoft Corporation

mshtmled.dll        6.0.3790.1830       455 KB
          3/24/2005 6:07:26 PM
          C:\WINDOWS\system32 Microsoft Corporation

mshtmler.dll        6.0.3790.1830       56 KB
          3/24/2005 6:07:26 PM
          C:\WINDOWS\system32 Microsoft Corporation

msident.dll         6.0.3790.1830       48 KB
          3/24/2005 6:07:28 PM
          C:\WINDOWS\system32 Microsoft Corporation

msidntld.dll        6.0.3790.0          15 KB
          3/25/2003 7:00:00 AM
          C:\WINDOWS\system32 Microsoft Corporation

msieftp.dll         6.0.3790.1830       244 KB
          3/24/2005 6:07:28 PM
          C:\WINDOWS\system32 Microsoft Corporation

msrating.dll        6.0.3790.1830       144 KB
          3/24/2005 6:07:36 PM
          C:\WINDOWS\system32 Microsoft Corporation

mstime.dll          6.0.3790.1830       523 KB
          3/24/2005 6:07:38 PM
          C:\WINDOWS\system32 Microsoft Corporation

occache.dll         6.0.3790.1830       94 KB
          3/24/2005 6:08:34 PM
          C:\WINDOWS\system32 Microsoft Corporation

proctexe.ocx        6.3.3790.1830       83 KB
          3/24/2005 6:12:26 PM
          C:\WINDOWS\system32 Intel Corporation
sendmail.dll        6.0.3790.1830       56 KB
          3/24/2005 6:13:36 PM
          C:\WINDOWS\system32 Microsoft Corporation

shdoclc.dll         6.0.3790.0          589 KB
          3/25/2003 7:00:00 AM
          C:\WINDOWS\system32 Microsoft Corporation

shdocvw.dll         6.0.3790.1830       1,468 KB
          3/24/2005 6:13:36 PM
          C:\WINDOWS\system32 Microsoft Corporation

shfolder.dll        6.0.3790.1830       25 KB
          3/24/2005 6:13:36 PM
          C:\WINDOWS\system32 Microsoft Corporation

shlwapi.dll         6.0.3790.1830       314 KB
          3/24/2005 6:13:40 PM
          C:\WINDOWS\system32 Microsoft Corporation

tdc.ocx   1.3.0.3130          58 KB     3/25/2003
7:00:00 AM          C:\WINDOWS\system32 Microsoft
Corporation
url.dll   6.0.3790.1830       37 KB     3/24/2005
6:26:12 PM          C:\WINDOWS\system32 Microsoft
Corporation
urlmon.dll          6.0.3790.1830       673 KB
          3/24/2005 6:26:12 PM
          C:\WINDOWS\system32 Microsoft Corporation

webcheck.dll        6.0.3790.1830       273 KB
          3/24/2005 6:26:16 PM
          C:\WINDOWS\system32 Microsoft Corporation

wininet.dll         6.0.3790.1830       646 KB
          3/24/2005 6:26:18 PM
          C:\WINDOWS\system32 Microsoft Corporation


[Connectivity]

Item      Value
Connection Preference         Never dial

LAN Settings

AutoConfigProxy     wininet.dll
AutoProxyDetectMode Enabled
AutoConfigURL
Proxy     Disabled
ProxyServer
ProxyOverride

[Cache]

[ Following are sub-categories of this main category
]
[Summary]

Item      Value
Page Refresh Type   Automatic
Temporary Internet Files Folder         C:\Documents
and Settings\Administrator\Local Settings\Temporary
Internet Files
Total Disk Space    Not Available
Available Disk Space          Not Available
Maximum Cache Size  Not Available
Available Cache Size          Not Available

[List of Objects]

Program File        Status    CodeBase
No cached object information available


[Content]

[ Following are sub-categories of this main category
]
[Summary]

Item      Value
Content Advisor     Disabled

[Personal Certificates]

Issued To Issued By Validity  Signature Algorithm
No personal certificate information available


[Other People Certificates]

Issued To Issued By Validity  Signature Algorithm
No other people certificate information available


[Publishers]

Name
No publisher information available

[Security]

Zone      Security Level
My Computer         Custom
Local intranet      Custom
Trusted sites       Custom
Internet  Custom
Restricted sites    Custom
```

Client Summary

```
System Information report written at: 09/06/2005
02:42:59 PM
[System Summary]
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Item      Value
OS Name   Microsoft Windows 2000 Server
Version   5.0.2195 Service Pack 4 Build 2195
OS Manufacturer     Microsoft Corporation
System Name         CL2
System Manufacturer HP
System Model        ProLiant DL360 G3
System Type         X86-based PC
Processor x86 Family 15 Model 2 Stepping 5
GenuineIntel ~3065 Mhz
Processor x86 Family 15 Model 2 Stepping 5
GenuineIntel ~3065 Mhz
BIOS Version        07/04/03
Windows Directory   C:\WINNT
System Directory    C:\WINNT\system32
Boot Device         \Device\Harddisk0\Partition1
Locale    United States
User Name CL2\Administrator
Time Zone Central Daylight Time
Total Physical Memory         1,048,084 KB
Available Physical Memory     880,148 KB
Total Virtual Memory          2,782,872 KB
Available Virtual Memory      2,536,180 KB
Page File Space     1,734,788 KB
Page File C:\pagefile.sys
```

Microsoft SQL Server 2005 Installation Procedures

```
Microsoft SQL Server 2005 Installation Procedures.
Type of installation: custom
During the custom installation, use the default
settings for all except the following two areas:
Services accounts:
SQL Server - local system account
Set the sort order/collation as SQL Collation binary
sort order/Latin_1_General.
After initial setup the TCP ports for IPall were
configured to 2001-2004, which correspond to client
TCP ports.
```

Microsoft COM Component

Configuration Parameters

```
The component services tool in Windows 2003 Server
was used to change the queue settings for the
TPCC COM+ single queue component. The
single queue component was set to enable
object pooling, object construction, just in time
activation, and component supports events and
statistics. The min and max pool size for the
single queue component on the client was 74.
Delivery threads were set under the TPCC key
in the registry at 14. The construction string was
Dummy String.
```

MicrosoftSQLServer Registry Parameters

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             IsListenerActive
  Type:             REG_SZ
  Data:             Yes

Value 1
  Name:             SsrpActiveServer
  Type:             REG_SZ
  Data:

Value 2
  Name:             InstalledInstances
  Type:             REG_MULTI_SZ
  Data:             MSSQLSERVER


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication\MergeReplicationProvider
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication\MergeReplicationProvider\MsJet
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {f159cf30-0db4-11d1-b272-
00aa00b8de95}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             EnableErrorReporting
  Type:             REG_DWORD
  Data:             0

Value 1
  Name:             ErrorReportingDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Shared\ErrorDumps\

Value 2
  Name:             CustomerFeedback
  Type:             REG_DWORD
  Data:             0

Value 3
  Name:             TimeOfReporting
  Type:             REG_DWORD
  Data:             0xf0

Value 4
  Name:             CollectorParameters
  Type:             REG_SZ
  Data:

Value 5
  Name:             SharedCode
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Shared\

Value 6
  Name:             VerSpecificRootDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Bootstrap
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             BootstrapDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Setup Bootstrap\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Bootstrap\MSIRefCount
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Uninstall
  Type:             REG_SZ
  Data:             {11111111-1111-1111-1111-
111111111111},{2373A92B-1C1C-4E71-B494-
5CA97F96AA19},{90032DD0-ABEE-4424-AC1E-B076BDD4E350}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Bootstrap\Setup
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             PatchLevel
  Type:             REG_SZ
  Data:             9.00.1187.07


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration\Node0
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             CPUMask
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration\Node1
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             CPUMask
  Type:             REG_DWORD
  Data:             0x2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration\Node2
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             CPUMask
  Type:             REG_DWORD
  Data:             0x4


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration\Node3
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             CPUMask
  Type:             REG_DWORD
  Data:             0x8


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\SQL Browser
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             AnalysisServiceListener
  Type:             REG_DWORD
  Data:             0

Value 1
  Name:             SsrpListener
  Type:             REG_DWORD
  Data:             0

Value 2
  Name:             Contexts
  Type:             REG_DWORD
  Data:             0x4

Value 3
  Name:             Threads
  Type:             REG_DWORD
  Data:             0x4


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\SQL Browser\Servers
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             SQLServer
  Type:             REG_SZ
  Data:             1434


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\ClientSetup
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             SQLBinRoot
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Shared\

Value 1
  Name:             SQLPath
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools

Value 2
  Name:             Path
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\binn\

Value 3
  Name:             checksum
  Type:             REG_BINARY
  Data:
00000000   38 33 33 66 66 66 30 65 - 62 38 32 62 30
34 37 62  833fff0eb82b047b
00000010   31 30 35 31 36 38 32 31 - 30 30 63 63 36
31 32 38  1051682100cc6128
00000020   36 31 30 31 31 31 39 31 - 30 36 37 64 61
34 61 33  61011191067da4a3
00000030   35 35 63 36 33 30 34 34 - 39 33 38 66 32
38 64 64  55c63044938f28dd
00000040   65 63 36 63 37 38 65 66 - 64 38 31 33 36
62 35 65  ec6c78efd8136b5e
00000050   39 65 63 35 32 39 31 32 - 38 62 62 62 32
61 33 65  9ec529128bbb2a3e
00000060   37 66 62 30 35 62 62 39 - 36 61 39 36 63
31 35 30  7fb05bb96a96c150
00000070   35 35 31 31 65 30 38 65 - 62 61 31 39 66
32 34 33  5511e08eba19f243
00000080   32 33 38 30 32 37 34 37 - 31 31 33 35 62
61 35 30  238027471135ba50
00000090   31 62 65 66 66 34 62 30 - 38 66 38 66 38
31 39 66  1beff4b08f8f819f
39 65 30 36 39 38 63 32 - 00
9e0698c2.

Value 4
  Name:             SqlToolsPath
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\ClientSetup\CurrentVersion
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Language
  Type:             REG_DWORD
  Data:             0x409

Value 1
  Name:             CurrentVersion
  Type:             REG_SZ
  Data:             9.00.1187.07


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Service Manager
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Services
  Type:             REG_MULTI_SZ
  Data:             ;


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Setup
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Version
  Type:             REG_SZ
  Data:             9.00.1187.07

Value 1
  Name:             Language
  Type:             REG_DWORD
  Data:             0x409

Value 2
  Name:             ProductCode
  Type:             REG_SZ
  Data:             {90032DD0-ABEE-4424-AC1E-
B076BDD4E350}

Value 3
  Name:             FeatureList
  Type:             REG_SZ
  Data:             Client_Components=3
SQL_Documentation=3 Connectivity=3 SQL_Tools90=3
SQL_Profiler90=3 SQL_WarehouseDevWorkbench=3 SDK=3
SQLXML=3 Tools_Legacy=3 SQL_BooksOnline=3
SQL_SQLServerBooksOnline=3
SQL_SQLServerMobileBooksOnline=3

Value 4
  Name:             PatchLevel
  Type:             REG_SZ
  Data:             9.00.1187.07

Value 5
  Name:             checksum
  Type:             REG_BINARY
  Data:
00000000   38 33 33 66 66 66 30 65 - 62 38 32 62 30
34 37 62  833fff0eb82b047b
00000010   31 30 35 31 36 38 32 31 - 30 30 63 63 36
31 32 38  1051682100cc6128
00000020   36 31 30 31 31 31 39 31 - 30 36 37 64 61
34 61 33  61011191067da4a3
00000030   35 35 63 36 33 30 34 34 - 39 33 38 66 32
38 64 64  55c63044938f28dd
00000040   65 63 36 63 37 38 65 66 - 64 38 31 33 36
62 35 65  ec6c78efd8136b5e
00000050   39 65 63 35 32 39 31 32 - 38 62 62 62 32
61 33 65  9ec529128bbb2a3e
00000060   37 66 62 30 35 62 62 39 - 36 61 39 36 63
31 35 30  7fb05bb96a96c150
00000070   35 35 31 31 65 30 38 65 - 62 61 31 39 66
32 34 33  5511e08eba19f243
00000080   32 33 38 30 32 37 34 37 - 31 31 33 35 62
61 35 30  238027471135ba50
00000090   31 62 65 66 66 34 62 30 - 38 66 38 66 38
31 39 66  1beff4b08f8f819f
39 65 30 36 39 38 63 32 - 00
9e0698c2.

Value 6
  Name:             Edition
  Type:             REG_SZ
  Data:             Beta Edition


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:23 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:

Value 1
  Name:             InstallDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 2
  Name:             XmlFileLocation
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 3
  Name:             ApplicationID
  Type:             REG_SZ
  Data:             SQLServer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\EEExtensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\EEExtensions\{274F99
4E-C88C-4894-9054-97DAE30B5ACF}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             ExtensionDll
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\vsdebug.dll

Value 1
  Name:             RegistersSupported
  Type:             REG_SZ
  Data:             $user

Value 2
  Name:             RegistersEntryPoint
  Type:             REG_SZ
  Data:             EEExtension_UserRegister


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\Engine
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\Engine\{0796D276-
21B7-4092-9EAB-236AB427682E}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             CLSID
  Type:             REG_SZ
  Data:             {0796D276-21B7-4092-9EAB-
236AB427682E}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\Engine\{1202F5B4-
3522-4149-BAD8-58B2079D704F}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             guidSQLEng2

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             resource=C:\Program
Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\*\vsdebugui.dll#6007


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\Engine\{3B476D35-
A401-11D2-AAD4-00C04F990171}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             guidNativeOnlyEng

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             resource=C:\Program
Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\*\vsdebugui.dll#6008


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\Engine\{449EC4CC-
30D2-4032-9256-EE18EB41B62B}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             guidCOMPlusOnlyEng

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             resource=C:\Program
Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\*\vsdebugui.dll#6012
```

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\Engine\{5AF6F83C-
B555-11D1-8418-00C04FA302A1}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             guidSQLEng

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             resource=C:\Program
Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\*\vsdebugui.dll#6007


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\Engine\{92EF0900-
2251-11D2-B72E-0000F87572EF}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             guidCOMPlusNativeEng

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             resource=C:\Program
Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\*\vsdebugui.dll#6013


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AD7Metrics\Engine\{E04BDE58-
45EC-48DB-9807-513F78865212}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             guidCOMPlusSQLLocalEng

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             resource=C:\Program
Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\*\vsdebugui.dll#6012
```

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AppCommandLine
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             ExeName
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:             JitDebug
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AppCommandLine\vs7jitdebuggingh
elp
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             DemandLoad
  Type:             REG_DWORD
  Data:             0

Value 1
  Name:             HelpString
  Type:             REG_SZ
  Data:             #5078

Value 2
  Name:             Arguments
  Type:             REG_SZ
  Data:             0

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutoLoadPackages
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutoLoadPackages\{53544C4D-
FFD5-48A9-B04A-0700CCD31070}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {53544C4D-B03D-4209-A7D0-
D9DD13A4019B}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutoLoadPackages\{93694fa0-
0397-11d1-9f4e-00a0c911004f}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {588205e0-66e0-11d3-8600-
00c04f6123b3}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutoLoadPackages\{ADFC4E64-
0397-11D1-9F4E-00A0C911004F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {53544C4D-E3F8-4AA0-8195-
8A8D16019423}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutoLoadPackages\{adfc4e66-
0397-11d1-9f4e-00a0c911004f}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {588205e0-66e0-11d3-8600-
00c04f6123b3}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutoLoadPackages\{F1536EF8-
92EC-443C-9ED7-FDADF150DA82}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14558

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Description
  Type:            REG_SZ
  Data:            #15069


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14559

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Description
  Type:            REG_SZ
  Data:            #15070


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\Documents
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14562

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Environment.Documents

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14892


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\General
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14560

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Environment.General

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14891


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\Help
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #1006

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            HelpToolsOptions
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\Import and Export Settings
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14569

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Environment.Import and Export
Settings

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14894

Value 5
  Name:            SecurityLevel
  Type:            REG_DWORD
  Data:            0x2

Value 6
  Name:            SensitivityLevel
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\International
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Environment.International


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\Keyboard
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14561

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Environment.Keyboard


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\ProjectsAndSolution
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14563

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Environment.ProjectsAndSolution

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14893


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\Startup
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #13216

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Environment.Startup

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14989


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\TaskList
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14557

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Environment.TaskList

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {4A9B7E50-AA16-11d0-A8C5-
00A0C921A4D2}

Value 3
  Name:            ProfileSave
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14899


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\Environmen
t\WebBrowser
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #1002

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Environment.WebBrowser

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {e8b06f41-6d01-11d2-aa7d-
00c04f990343}

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14895


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\FontsAndCo
lors
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\FontsAndCo
lors\Printer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            FontsAndColors.Printer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\FontsAndCo
lors\TextEditor
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            FontsAndColors.Text Editor


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\TextEditor
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #13022

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 2
  Name:            Description
  Type:            REG_SZ
  Data:            #15072


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\TextEditor
\AllLanguages
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14059

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            TextEditor.AllLanguages

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\TextEditor
\Fonts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14604

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Fonts

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14889


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\TextEditor
\General
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #13565

Value 1
  Name:            Package
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            General

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14888


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\TextEditor
\PlainText
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #13679

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Plain Text

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14890


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\TextEditor
\XML
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #200

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            XML

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E720-1401-11D1-883B-
0000F87579D2}

Value 3
  Name:            ProfileSave
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            ResourcePackage
  Type:            REG_SZ
  Data:            {87569308-4813-40a0-9cd0-
d7a30838ca3f}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\AutomationProperties\TextEditor
\XmlEditor
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #205

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            XML.Miscellaneous

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {87569308-4813-40a0-9cd0-
d7a30838ca3f}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{0024861F-E26C-4D23-B286-
1C607B4ACB01}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.Project.DataTran
sformationsBuildPropertyPage

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.Project.DataTran
sformationsBuildPropertyPage

Value 4
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.VsIntegration

Value 5
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            v1.1.4322


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{0452cd78-e6bf-4d67-848b-
994dce92a503}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.Design,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            Class
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:
Microsoft.VisualStudio.Design.Serialization.VBMyResXF
ileCodeGenerator

Value 3
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 4
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.VBMyResXF
ileCodeGenerator


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{04b5c000-df2e-42be-8682-
2a9f39c8daa5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            PrimerMgr Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{04b5c000-df2e-42be-8682-
2a9f39c8daa5}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{05DD7650-130A-11d3-AFCB-
00105A9991EF}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsTextTipWindow class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{0796D276-21B7-4092-9EAB-
236AB427682E}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.Project.CubeDebugger.CubeDebu
gEngine

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.Project.CubeDebugger.CubeDebu
gEngine

Value 4
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project,
Version=9.00.242.00, Culture=neutral,
PublicKeyToken=89845dcd8080cc91

Value 5
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            v1.0.3705


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{0dfbe0f3-bc01-3308-a764-
9edcaeb3bfc3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.Design,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.ResXGloba
lObjectProvider

Value 3
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 4
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.ResXGloba
lObjectProvider


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{15d5e750-72dc-466c-a1b9-
222fbb0c58c0}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CQryAutoColumn Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{15d5e750-72dc-466c-a1b9-
222fbb0c58c0}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{15d5e750-72dc-466c-a1b9-
222fbb0c58c0}\TypeLib
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {8d7902be-835f-42b9-aff4-
222660d45ea4}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{163968a9-0a82-4a6c-b369-
a452477f26a5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            StreamWrapper Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{163968a9-0a82-4a6c-b369-
a452477f26a5}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{1a5c7e00-a12e-4cb3-9cd2-
30597f5f1d8e}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
```

```
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CQryAutoColsCollection Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{1a5c7e00-a12e-4cb3-9cd2-
30597f5f1d8e}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{1a5c7e00-a12e-4cb3-9cd2-
30597f5f1d8e}\TypeLib
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {8d7902be-835f-42b9-aff4-
222660d45ea4}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{22C4B999-18DD-4E61-AF4A-
8C3292CCC926}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.Project.AnalysisServicesBuild
PropertyPage

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll
```

```
Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.AnalysisServicesBu
ildPropertyPage

Value 4
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project,
Version=9.00.242.00, Culture=neutral,
PublicKeyToken=89845dcd8080cc91

Value 5
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            v1.1.4322


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{232ce68f-32bb-48c9-9808-
0e1d6e71c57b}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.ResourceLoader.Resou
rceLoader.8.0

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.ResourceLoader.Resou
rceLoader

Value 4
  Name:            Assembly
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            Microsoft.VisualStudio.CommonIDE,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 5
  Name:            CodeBase
  Type:            REG_SZ
  Data:            file:///C:\Program Files\Microsoft
SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Microsoft.Vi
sualStudio.CommonIDE.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{232ce68f-32bb-48c9-9808-
0e1d6e71c57b}\InprocServer32
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{232ce68f-32bb-48c9-9808-
0e1d6e71c57b}\InprocServer32\8.0.0.0
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.ResourceLoader

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.CommonIDE,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            CodeBase
  Type:            REG_SZ
  Data:            file:///C:\Program Files\Microsoft
SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Microsoft.Vi
sualStudio.CommonIDE.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{232ce68f-32bb-48c9-9808-
0e1d6e71c57b}\ProgId
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.ResourceLoader.Resou
rceLoader.8.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{261A5572-C649-11d0-A8DF-
00A0C921A4D2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsMethodTipWindow class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{26f2a656-27cd-436a-89e3-
3d4616811281}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.Design,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.LicXFileG
enerator

Value 3
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 4
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.LicXFileG
enerator


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{31A81214-5A9F-4532-ACD0-
3204A9AB5D08}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsTextSpanSet Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{374fc192-9ebd-4954-a0f7-
26221439a1c2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            TrackSelection Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{39F4B568-7166-42b3-87E6-
6B856864AE55}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsIntellisenseLangTip Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{3c1f59c6-69cf-11d2-aa7c-
00c04f990343}
Class Name:        <NO CLASS>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsUserContext Module

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{3e77fa94-526f-4233-bf81-
b2b0329a62b9}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsTextBufferCoordinator Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{3e94c4f7-3bcb-4810-8f3d-
ba993731443b}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            MSVDTDDGridCtrl8 Object

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{3e94c4f7-3bcb-4810-8f3d-
ba993731443b}\ControlMDTPrivate
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{3e94c4f7-3bcb-4810-8f3d-
ba993731443b}\MiscStatus
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{3e94c4f7-3bcb-4810-8f3d-
ba993731443b}\MiscStatus\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            131473


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{3e94c4f7-3bcb-4810-8f3d-
ba993731443b}\ToolboxBitmap32
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll, 1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{3e94c4f7-3bcb-4810-8f3d-
ba993731443b}\Version
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            8.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{4187fbf6-7e80-44d0-bc1f-
0e33d6254098}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.Design,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.ResXFileG
enerator

Value 3
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 4
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.ResXFileG
enerator


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{452807CC-9BFA-11d0-8C3F-
00C04FC2AAE2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsDropdownBar Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{4921502a-feb9-4960-8f27-
9833942b3de7}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CQryAutoParameterCollection Class
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{4921502a-feb9-4960-8f27-
9833942b3de7}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{4921502a-feb9-4960-8f27-
9833942b3de7}\TypeLib
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {8d7902be-835f-42b9-aff4-
222660d45ea4}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{4970C2BC-AF33-4a73-A34F-
18B0584C40E4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsExpansionManager class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{4FF9DEF4-8922-4D02-9379-
3FFA64D1D639}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CLSID_SDMProgramProvider

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\vsdebug.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{5130C7AB-85BB-11d3-B363-
00C04F611E41}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsLocalUserData Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{53544C4D-0989-400e-ACFF-
B66008BF29C4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\VS
SCC\msemp.dll

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VSEE Versioning WEC Factory


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{53544C4D-2692-4ae7-A9A0-
A39CAC56607A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\VS
SCC\msemp.dll

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VSEE Versioning Enlistment Manager
Proxy Data Source


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{53544C4D-CFBF-404e-9E37-
19C8BB80F6E3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\VS
SCC\VssProvider.dll

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VAPI Scheme Parser Msss


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{5a303e2f-b50c-4f84-a3e1-
dbeafdabd6a9}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CQryAutoParameter Class
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{5a303e2f-b50c-4f84-a3e1-
dbeafdabd6a9}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{5a303e2f-b50c-4f84-a3e1-
dbeafdabd6a9}\TypeLib
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {8d7902be-835f-42b9-aff4-
222660d45ea4}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{5A46C6DE-1FE4-43b8-8E1E-
598AE65F184A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsSmartTagTipWindow class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{5CEB3CEF-F536-428B-A798-
D1A31C67167C}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\vsdebug.dll

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VSDebugFindSourcePage


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{5EB7D9F7-AF21-400E-A2C4-
7FD6396F8641}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Session Debug Manager

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\vsdebug.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{6114C8A2-0CE9-11d1-8BD9-
00A0C90F26F7}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VS COM References Dialog

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{63954172-BC86-11d2-B2CF-
00C04FB17608}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VisualStudio Solution
Configurations Property Page


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{64cc4181-1a6d-40a1-b911-
d710932e570d}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            MDT OleUndoManager Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{66B88230-2363-4992-B740-
B0450A6F51CA}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsTextImage Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{6A1A6EB8-B7E8-413e-81F5-
D39D3FD574EB}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.PrimeCLR

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Both

Value 3
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.PrimeCLR

Value 4
  Name:             Assembly
  Type:             REG_SZ
  Data:             Microsoft.VisualStudio.CommonIDE,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 5
  Name:             CodeBase
  Type:             REG_SZ
  Data:             file:///C:\Program Files\Microsoft
SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Microsoft.Vi
sualStudio.CommonIDE.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{6C3B3FFA-D43C-4793-9742-
F7938619E81F}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.Project.DtsGener
alPropertyPage

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             mscoree.dll

Value 2
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Both

Value 3
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.Project.DtsGener
alPropertyPage

Value 4
  Name:             Assembly
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.VsIntegration

Value 5
  Name:             RuntimeVersion
  Type:             REG_SZ
  Data:             v1.1.4322


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{6E87CFAD-6C05-4adf-9CD7-
3B7943875B7C}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Visual Studio Common IDE Package

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.CommonIDEPackage

Value 3
  Name:             Assembly
  Type:             REG_SZ
  Data:             Microsoft.VisualStudio.CommonIDE,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:             CodeBase
  Type:             REG_SZ
  Data:             file:///C:\Program Files\Microsoft
SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Microsoft.Vi
sualStudio.CommonIDE.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{6eaad443-3795-4f98-a983-
e83a573b4e12}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             AUtoDataSource Class

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{6eaad443-3795-4f98-a983-
e83a573b4e12}\Programmable
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{6eaad443-3795-4f98-a983-
e83a573b4e12}\TypeLib
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {8d7902be-835f-42b9-aff4-
222660d45ea4}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{7af30a6f-4154-46e6-8db7-
889c3a4a3223}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:
Microsoft.VisualStudio.Shell.PrimeCLR

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Shell.PrimeCLR

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{82307E90-2108-4BEE-8F8C-
DE3E0CE941A2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.Project.DebugPropertyPage

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.Project.DebugPropertyPage

Value 4
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project,
Version=9.00.242.00, Culture=neutral,
PublicKeyToken=89845dcd8080cc91

Value 5
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            v1.1.4322


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{87569308-4813-40A0-9CD0-
D7A30838CA3F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft.XmlEditor.Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{87569308-4813-40A0-9CD0-
D7A30838CA3F}\Implemented Categories
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{87569308-4813-40A0-9CD0-
D7A30838CA3F}\Implemented Categories\{62C8FE65-4EBB-
45E7-B440-6E39B2CDBF29}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{87569308-4813-40A0-9CD0-
D7A30838CA3F}\InprocServer32
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 1
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:            Microsoft.XmlEditor.Package

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.XmlEditor,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            2.0.0.0

Value 5
  Name:            CodeBase
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Xml\Microsof
t.XmlEditor.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{87569308-4813-40A0-9CD0-
D7A30838CA3F}\InprocServer32\2.0.0.0
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Class
  Type:            REG_SZ
  Data:            Microsoft.XmlEditor.Package

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.XmlEditor,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            2.0.0.0

Value 3
  Name:            CodeBase
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Xml\Microsof
t.XmlEditor.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{87569308-4813-40A0-9CD0-
D7A30838CA3F}\ProgId
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            Microsoft.XmlEditor.Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{8B217746-717D-11CE-AB5B-
D41203C10000}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\vstlbinf.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CLSID_TypeLibInfo


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{8B217752-717D-11CE-AB5B-
D41203C10000}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\vstlbinf.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CLSID_SearchHelper


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{8B21775E-717D-11CE-AB5B-
D41203C10000}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\vstlbinf.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CLSID_TLIApplication


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{8E7B96A8-E33D-11d0-A6D5-
00C04FB67F6A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsTextBuffer Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{99913F1F-1EE3-11D1-8A6E-
00C04f682E21}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VisualStudio Solution
VsCfgProviderEventsHelper


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{99D8D806-9FD7-4e15-9E76-
487F2104666E}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            ADO .NET Root Object Enumerator
class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.Data,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Data.AdoDotNet.AdoDotNetRootOb
jectEnumerator


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{9ACDE3B7-0F9B-4c36-8E9E-
2DBDE37F65B7}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Managed Data Tools Class Activator
Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.DataTools,
Version=8.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.DataTools.DTClassActivator


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{9B6AB22E-916A-11d2-8914-
0000F87579D2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsHiddenTextLayer Class
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{9e1a60ac-2c3b-45cc-9466-
82ceb2bd3518}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Microsoft Visual Database Tools
Database Designer V8.0

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{9e1a60ac-2c3b-45cc-9466-
82ceb2bd3518}\AuxUserType
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{9e1a60ac-2c3b-45cc-9466-
82ceb2bd3518}\AuxUserType\2
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             MSVDTDB Designer 8.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{9e1a60ac-2c3b-45cc-9466-
82ceb2bd3518}\AuxUserType\3
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Microsoft Visual Database Tools
Database Designer V8.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{9e1a60ac-2c3b-45cc-9466-
82ceb2bd3518}\MiscStatus
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             131072


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{9EEA02EB-4328-456b-B1B3-
83EC5A942C16}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             ADO .NET Object Enumerator class

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             mscoree.dll

Value 2
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Both

Value 3
  Name:             Assembly
  Type:             REG_SZ
  Data:             Microsoft.VisualStudio.Data,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.Data.AdoDotNet.AdoDotNetObject
Enumerator


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{9F842E53-E27B-426f-AE69-
8F075770C6F3}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             VsFinder Class

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{A353805B-8A96-479b-83EB-
2EA3F69A674C}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Both

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Compsvc
spkg.dll

Value 2
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Primary Interop Assembly Wrapper
Tool (8.0)


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{A49C22CE-454A-11d3-8A7D-
00C04F682E21}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             VisualStudio Startup Project
Property Page


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{a4e8b5aa-c736-41d9-af4d-
fa49e2a7c36f}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Microsoft Visual Database Tools
Database Designer V8.0 Table Designer Column Property
Page
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{ac929c9f-903b-4904-84e3-
eefe47439d49}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            DSRefWrapper Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{ac929c9f-903b-4904-84e3-
eefe47439d49}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{B2715971-D02C-11d2-AFB4-
00105A9991EF}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsDefaultButtonBarImages Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{BC5955D5-AA0D-11d0-A8C5-
00A0C921A4D2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsTaskList Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{c080bc37-eb1c-466c-8ae0-
42756f9e6e92}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CQryAuto Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{c080bc37-eb1c-466c-8ae0-
42756f9e6e92}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{C28C4281-6E29-41AB-A120-
9B6336BAC906}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.TemplateWizard.Wizar
d.8.0

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.TemplateWizard.Wizar
d

Value 4
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.CommonIDE,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 5
  Name:            CodeBase
  Type:            REG_SZ
  Data:            file:///C:\Program Files\Microsoft
SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Microsoft.Vi
sualStudio.CommonIDE.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{C28C4281-6E29-41AB-A120-
9B6336BAC906}\InprocServer32
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{C28C4281-6E29-41AB-A120-
9B6336BAC906}\InprocServer32\8.0.0.0
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.TemplateWizard.Wizar
d

Value 1
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.CommonIDE,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            CodeBase
  Type:            REG_SZ
  Data:            file:///C:\Program Files\Microsoft
SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Microsoft.Vi
sualStudio.CommonIDE.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{C28C4281-6E29-41AB-A120-
9B6336BAC906}\ProgId
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.TemplateWizard.Wizar
d.8.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{C70DDCC1-E6F5-40A3-A414-
FF30A68B5EE7}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.Project.DataSourceInfoPropert
yPage

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.Project.DataSourceInfoPropert
yPage

Value 4
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project,
Version=9.00.242.00, Culture=neutral,
PublicKeyToken=89845dcd8080cc91

Value 5
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            v1.1.4322


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{c77981ec-ba19-3348-878f-
6f88745a251e}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.Design,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.ResXFileC
odeGenerator

Value 3
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 4
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.ResXFileC
odeGenerator


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{C964830F-91A0-11D0-B14C-
0000F8041356}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            OleUndoManager Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{cab2b658-026a-11d3-8a62-
00c04f682e21}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VisualStudio Signing Options
Property Page


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{D3395FBA-8DE5-4E56-B82C-
D4357588CD52}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.AnalysisServicesDe
ploymentPropertyPage

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.AnalysisServicesDe
ploymentPropertyPage

Value 4
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Version=9.00.242.00, Culture=neutral,
PublicKeyToken=89845dcd8080cc91

Value 5
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            v1.1.4322


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{D42D21CE-A94A-47f2-A2DA-
ACE133020BCD}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Data Source Reference Builder
class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.Data,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Data.DSRefBuilder


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{d5474961-c90b-4d5d-a433-
45768b3d0444}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            MSDTHostCtrl Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{d5474961-c90b-4d5d-a433-
45768b3d0444}\Control
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{d5474961-c90b-4d5d-a433-
45768b3d0444}\Insertable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{d5474961-c90b-4d5d-a433-
45768b3d0444}\MiscStatus
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{d5474961-c90b-4d5d-a433-
45768b3d0444}\MiscStatus\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            131473


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{d5474961-c90b-4d5d-a433-
45768b3d0444}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{d5474961-c90b-4d5d-a433-
45768b3d0444}\ToolboxBitmap32
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll, 1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{d5474961-c90b-4d5d-a433-
45768b3d0444}\Version
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            8.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{D6513A91-ACC8-11d2-8919-
0000F87579D2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VsTextLineStorage Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{D8CB03CB-A124-4E7F-9EB2-
788F351367A2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            SqlToolsVSHlpFactory Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SqlToolsVSNa
tiveHelpers.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{df4b6a92-088f-4963-b2a4-
3da796218782}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CQryAutoDSCollection Class

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{df4b6a92-088f-4963-b2a4-
3da796218782}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{df4b6a92-088f-4963-b2a4-
3da796218782}\TypeLib
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {8d7902be-835f-42b9-aff4-
222660d45ea4}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e05a0ac9-7fb7-481e-b5bb-
08e1e35b211d}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Apartment

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Primer Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e05a0ac9-7fb7-481e-b5bb-
08e1e35b211d}\Programmable
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e09ee6ac-fef0-41ae-9f77-
3c394da49849}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft Visual Database Tools
DSRef Object


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft Visual Database Tools
Query Designer V8.0

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\AuxUserType
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\AuxUserType\2
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            MS VDT Query V8.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\AuxUserType\3
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft Visual Database Tools
Query Designer V8.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\DataFormats
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\DataFormats\GetSet
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\DataFormats\GetSet\0
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             3,1,32,1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\DataFormats\GetSet\2
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Embed Source,1,8,3


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\DefaultIcon
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             progman.exe,2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\MiscStatus
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             131072


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\Verb
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{e0d7b2ab-9988-4444-80b5-
4a0900582d87}\Verb\0
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             &Play,0,2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{EE9E0A9A-BAF8-11D2-B2CF-
00C04FB17608}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             VisualStudio Build Dependencies
Property Page


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{F2073DB0-75B9-43ae-8681-
0962C0CD4BE2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             VsIntellisenseCompletor Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{F35401F2-251E-4A6A-B199-
D0E40AD57861}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.Project.DataTran
sformationsDeploymentUtilityPropertyPage

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             mscoree.dll

Value 2
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Both

Value 3
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.Project.DataTran
sformationsDeploymentUtilityPropertyPage

Value 4
  Name:             Assembly
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.VsIntegration

Value 5
  Name:             RuntimeVersion
  Type:             REG_SZ
  Data:             v1.1.4322


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{F5E7E718-1401-11d1-883B-
0000F87579D2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{F5E7E719-1401-11d1-883B-
0000F87579D2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             CodeWindow Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{F5E7E71A-1401-11d1-883B-
0000F87579D2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{F5E7E71D-1401-11d1-883B-
0000F87579D2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{F5E7E71E-1401-11d1-883B-
0000F87579D2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{F5E7E71F-1401-11d1-883B-
0000F87579D2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{f6819a78-a205-47b5-be1c-
675b3c7f0b8e}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.XmlEditor.XmlLanguageService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{f6819a78-a205-47b5-be1c-
675b3c7f0b8e}\Implemented Categories
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{f6819a78-a205-47b5-be1c-
675b3c7f0b8e}\Implemented Categories\{62C8FE65-4EBB-
45E7-B440-6E39B2CDBF29}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{f6819a78-a205-47b5-be1c-
675b3c7f0b8e}\InprocServer32
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             C:\WINDOWS\system32\mscoree.dll

Value 1
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Both

Value 2
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.XmlEditor.XmlLanguageService

Value 3
  Name:             Assembly
  Type:             REG_SZ
  Data:             Microsoft.XmlEditor,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:             CodeBase
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Xml\Microsof
t.XmlEditor.dll

Value 5
  Name:             RuntimeVersion
  Type:             REG_SZ
  Data:             2.0.0.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{f6819a78-a205-47b5-be1c-
675b3c7f0b8e}\InprocServer32\2.0.0.0
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.XmlEditor.XmlLanguageService

Value 1
  Name:             Assembly
  Type:             REG_SZ
  Data:             Microsoft.XmlEditor,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:             RuntimeVersion
  Type:             REG_SZ
  Data:             2.0.0.0

Value 3
  Name:             CodeBase
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Xml\Microsof
t.XmlEditor.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{f6819a78-a205-47b5-be1c-
675b3c7f0b8e}\ProgId
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.XmlEditor.XmlLanguageService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\CLSID\{F74C5077-D848-4630-80C9-
B00E68A1CA0C}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Visual Studio VsSettings Package

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.VsSettings.VsSetting
sPackage

Value 3
  Name:             Assembly
  Type:             REG_SZ
  Data:             Microsoft.VisualStudio.CommonIDE,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:             CodeBase
  Type:             REG_SZ
  Data:             file:///C:\Program Files\Microsoft
SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Microsoft.Vi
sualStudio.CommonIDE.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ComponentPickerPages
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ComponentPickerPages\SQL Server
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Sort
  Type:             REG_DWORD
  Data:             0x15

Value 1
  Name:             Page
  Type:             REG_SZ
  Data:             {BBA3635A-F590-4397-9036-
E826053E25AD}

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {588205e0-66e0-11d3-8600-
00c04f6123b3}

Value 3
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #3100


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             .NET Framework Data Provider for
OLE DB

Value 1
  Name:             DisplayName
  Type:             REG_SZ
  Data:             DataProvider_OleDB, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:             ShortDisplayName
  Type:             REG_SZ
  Data:             DataProvider_OleDB_Short, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 3
  Name:             Description
  Type:             REG_SZ
  Data:             DataProvider_OleDB_Description,
SR, Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:             Technology
  Type:             REG_SZ
  Data:             {77AB9A9D-78B9-4ba7-91AC-
873F5338F1D2}

Value 5
  Name:             FactoryService
  Type:             REG_SZ
  Data:             {8CB5F787-2D74-459e-88D6-
39E20A4D9454}

Value 6
  Name:             InvariantName
  Type:             REG_SZ
  Data:             System.Data.OleDb


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}\Specialization
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\Microsoft.Jet.OLEDB.4.0
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             DataSource
  Type:             REG_SZ
  Data:             {466CE797-67A4-4495-B75C-
A3FD282E7FC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\Microsoft.Jet.OLEDB.4.0\
DataConnectionProperties
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.Data.ConnectionUI.OleDBAccessConnectionProp
erties, Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
FBF6B0548B80}\Specialization\Microsoft.Jet.OLEDB.4.0\
DataConnectionUIControl
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.Data.ConnectionUI.AccessConnectionUIControl
, Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\Microsoft.Jet.OLEDB.4.0\
DataSourceInformation
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.DataTools.Providers.OleDB.OleD
BJetDataSourceInformation,
Microsoft.VisualStudio.DataTools, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}\Specialization\MSDAORA.1
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             DataSource
  Type:             REG_SZ
  Data:             {E5E86CD6-6454-4fdd-910F-
DC5DFC73EB45}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\MSDAORA.1\DataConnection
Properties
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.Data.ConnectionUI.OleDBOracleConnectionProp
erties, Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\MSDAORA.1\DataConnection
UIControl
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.Data.ConnectionUI.OracleConnectionUIControl
, Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\MSDAORA.1\DataSourceInfo
rmation
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.DataTools.Providers.OleDB.OleD
BOracleDataSourceInformation,
Microsoft.VisualStudio.DataTools, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}\Specialization\SQLNCLI.1
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             DataSource
  Type:             REG_SZ
  Data:             {067EA0D9-BA62-43f7-9106-
34930C60C528}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\SQLNCLI.1\DataConnection
Properties
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.Data.ConnectionUI.OleDBSqlConnectionPropert
ies, Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\SQLNCLI.1\DataConnection
UIControl
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.Data.ConnectionUI.SqlConnectionUIControl,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\SQLNCLI.1\DataSourceInfo
rmation
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.DataTools.Providers.OleDB.OleD
BSqlDataSourceInformation,
Microsoft.VisualStudio.DataTools, Version=8.0.1200.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}\Specialization\SQLOLEDB.1
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             DataSource
  Type:             REG_SZ
  Data:             {067EA0D9-BA62-43f7-9106-
34930C60C528}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
FBF6B0548B80}\Specialization\SQLOLEDB.1\DataConnectio
nProperties
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.Data.ConnectionUI.OleDBSqlConnectionPropert
ies, Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\SQLOLEDB.1\DataConnectio
nUIControl
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.Data.ConnectionUI.SqlConnectionUIControl,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\SQLOLEDB.1\DataSourceInf
ormation
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.DataTools.Providers.OleDB.OleD
BSqlDataSourceInformation,
Microsoft.VisualStudio.DataTools, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}\Specialization\VFPOLEDB.1
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\Specialization\VFPOLEDB.1\DataSourceInf
ormation
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.DataTools.Providers.OleDB.OleD
BFoxDataSourceInformation,
Microsoft.VisualStudio.DataTools, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}\SupportedObjects
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\SupportedObjects\DataConnectionProperti
es
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\SupportedObjects\DataConnectionSupport
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\SupportedObjects\DataConnectionUIContro
l
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\SupportedObjects\DataObjectSupport
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{7F041D59-D76A-
44ed-9AA2-
FBF6B0548B80}\SupportedObjects\DataSourceSpecializer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{8F5C5018-AE09-
42cf-B2CC-2CCCC7CFC2BB}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             .NET Framework Data Provider for
Oracle

Value 1
  Name:             DisplayName
  Type:             REG_SZ
  Data:             DataProvider_Oracle, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:             ShortDisplayName
  Type:             REG_SZ
  Data:             DataProvider_Oracle_Short, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 3
  Name:             Description
  Type:             REG_SZ
  Data:             DataProvider_Oracle_Description,
SR, Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 4
  Name:            Technology
  Type:            REG_SZ
  Data:            {77AB9A9D-78B9-4ba7-91AC-
873F5338F1D2}

Value 5
  Name:            FactoryService
  Type:            REG_SZ
  Data:            {F638BEE1-DC22-4401-8A4A-
6DB0B13C196C}

Value 6
  Name:            InvariantName
  Type:            REG_SZ
  Data:            System.Data.OracleClient


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{8F5C5018-AE09-
42cf-B2CC-2CCCC7CFC2BB}\SupportedObjects
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{8F5C5018-AE09-
42cf-B2CC-
2CCCC7CFC2BB}\SupportedObjects\DataConnectionPromptDi
alog
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{8F5C5018-AE09-
42cf-B2CC-
2CCCC7CFC2BB}\SupportedObjects\DataConnectionProperti
es
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{8F5C5018-AE09-
42cf-B2CC-
2CCCC7CFC2BB}\SupportedObjects\DataConnectionSupport
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{8F5C5018-AE09-
42cf-B2CC-
2CCCC7CFC2BB}\SupportedObjects\DataConnectionUIContro
l
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{8F5C5018-AE09-
42cf-B2CC-
2CCCC7CFC2BB}\SupportedObjects\DataObjectSupport
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{8F5C5018-AE09-
42cf-B2CC-
2CCCC7CFC2BB}\SupportedObjects\DataSourceSpecializer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{91510608-8809-
4020-8897-FBA057E22D54}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            .NET Framework Data Provider for
SQL Server

Value 1
  Name:            DisplayName
  Type:            REG_SZ
  Data:            DataProvider_Sql, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            ShortDisplayName
  Type:            REG_SZ
  Data:            DataProvider_Sql_Short, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            DataProvider_Sql_Description, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            Technology
  Type:            REG_SZ
  Data:            {77AB9A9D-78B9-4ba7-91AC-
873F5338F1D2}

Value 5
  Name:            FactoryService
  Type:            REG_SZ
  Data:            {FCD3F3E8-69AC-42d5-905E-
2E131905E708}

Value 6
  Name:            InvariantName
  Type:            REG_SZ
  Data:            System.Data.SqlClient


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{91510608-8809-
4020-8897-FBA057E22D54}\SupportedObjects
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{91510608-8809-
4020-8897-
FBA057E22D54}\SupportedObjects\DataConnectionPromptDi
alog
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{91510608-8809-
4020-8897-
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
FBA057E22D54}\SupportedObjects\DataConnectionProperti
es
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{91510608-8809-
4020-8897-
FBA057E22D54}\SupportedObjects\DataConnectionSupport
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{91510608-8809-
4020-8897-
FBA057E22D54}\SupportedObjects\DataConnectionUIContro
l
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{91510608-8809-
4020-8897-
FBA057E22D54}\SupportedObjects\DataObjectSupport
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{91510608-8809-
4020-8897-
FBA057E22D54}\SupportedObjects\DataSourceSpecializer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{C3D4F4CE-2C48-
4381-B4D6-34FA50C51C86}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             .NET Framework Data Provider for
ODBC

Value 1
  Name:             DisplayName
  Type:             REG_SZ
  Data:             DataProvider_Odbc, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:             ShortDisplayName
  Type:             REG_SZ
  Data:             DataProvider_Odbc_Short, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 3
  Name:             Description
  Type:             REG_SZ
  Data:             DataProvider_Odbc_Description, SR,
Microsoft.Data.ConnectionUI.Dialog, Version=8.0.0.0,
Culture=Neutral, PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:             Technology
  Type:             REG_SZ
  Data:             {77AB9A9D-78B9-4ba7-91AC-
873F5338F1D2}

Value 5
  Name:             FactoryService
  Type:             REG_SZ
  Data:             {06D0BE35-FA3A-4ef6-81B9-
3EDBB68EF982}

Value 6
  Name:             InvariantName
  Type:             REG_SZ
  Data:             System.Data.Odbc


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{C3D4F4CE-2C48-
4381-B4D6-34FA50C51C86}\SupportedObjects
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{C3D4F4CE-2C48-
4381-B4D6-
34FA50C51C86}\SupportedObjects\DataConnectionPromptDi
alog
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{C3D4F4CE-2C48-
4381-B4D6-
34FA50C51C86}\SupportedObjects\DataConnectionProperti
es
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{C3D4F4CE-2C48-
4381-B4D6-
34FA50C51C86}\SupportedObjects\DataConnectionSupport
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{C3D4F4CE-2C48-
4381-B4D6-
34FA50C51C86}\SupportedObjects\DataConnectionUIContro
l
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{C3D4F4CE-2C48-
4381-B4D6-
34FA50C51C86}\SupportedObjects\DataObjectSupport
Class Name:         <NO CLASS>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataProviders\{C3D4F4CE-2C48-
4381-B4D6-
34FA50C51C86}\SupportedObjects\DataSourceSpecializer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{067EA0D9-BA62-
43f7-9106-34930C60C528}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft SQL Server

Value 1
  Name:            DefaultProvider
  Type:            REG_SZ
  Data:            {91510608-8809-4020-8897-
FBA057E22D54}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{067EA0D9-BA62-
43f7-9106-34930C60C528}\SupportingProviders
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{067EA0D9-BA62-
43f7-9106-
34930C60C528}\SupportingProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Description
  Type:            REG_SZ
  Data:
DataProvider_OleDB_SqlDataSource_Description, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 1
  Name:            SpecializedProvider
  Type:            REG_SZ
  Data:            SQLOLEDB.1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{067EA0D9-BA62-
43f7-9106-
34930C60C528}\SupportingProviders\{91510608-8809-
4020-8897-FBA057E22D54}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DisplayName
  Type:            REG_SZ
  Data:            DataSource_MicrosoftSqlServer, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 1
  Name:            Description
  Type:            REG_SZ
  Data:
DataProvider_Sql_DataSource_Description, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{42568F9E-354A-
4c76-9916-3225D8C8E750}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            ODBC Data Source


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{42568F9E-354A-
4c76-9916-3225D8C8E750}\SupportingProviders
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{42568F9E-354A-
4c76-9916-
3225D8C8E750}\SupportingProviders\{C3D4F4CE-2C48-
4381-B4D6-34FA50C51C86}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DisplayName
  Type:            REG_SZ
  Data:            DataSource_MicrosoftOdbcDsn, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 1
  Name:            Description
  Type:            REG_SZ
  Data:
DataProvider_Odbc_DataSource_Description, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{466CE797-67A4-
4495-B75C-A3FD282E7FC3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft Access Database File

Value 1
  Name:            DefaultProvider
  Type:            REG_SZ
  Data:            {7F041D59-D76A-44ed-9AA2-
FBF6B0548B80}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{466CE797-67A4-
4495-B75C-A3FD282E7FC3}\SupportingProviders
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{466CE797-67A4-
4495-B75C-
A3FD282E7FC3}\SupportingProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DisplayName
  Type:            REG_SZ
  Data:            DataSource_MicrosoftAccess, SR,
Microsoft.Data.ConnectionUI.Dialog,
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 1
  Name:            Description
  Type:            REG_SZ
  Data:
DataProvider_OleDB_AccessDataSource_Description, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 2
  Name:            SpecializedProvider
  Type:            REG_SZ
  Data:            Microsoft.Jet.OLEDB.4.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{485C80D5-BC85-
46db-9E6D-4238A0AD7B6B}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft SQL Server Database File

Value 1
  Name:            DefaultProvider
  Type:            REG_SZ
  Data:            {91510608-8809-4020-8897-
FBA057E22D54}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{485C80D5-BC85-
46db-9E6D-4238A0AD7B6B}\SupportingProviders
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{485C80D5-BC85-
46db-9E6D-
4238A0AD7B6B}\SupportingProviders\{91510608-8809-
4020-8897-FBA057E22D54}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DisplayName
  Type:            REG_SZ
  Data:            DataSource_MicrosoftSqlServerFile,
SR, Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 1
  Name:            Description
  Type:            REG_SZ
  Data:
DataProvider_Sql_FileDataSource_Description, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{E5E86CD6-6454-
4fdd-910F-DC5DFC73EB45}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Oracle Database

Value 1
  Name:            DefaultProvider
  Type:            REG_SZ
  Data:            {8F5C5018-AE09-42cf-B2CC-
2CCCC7CFC2BB}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{E5E86CD6-6454-
4fdd-910F-DC5DFC73EB45}\SupportingProviders
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{E5E86CD6-6454-
4fdd-910F-
DC5DFC73EB45}\SupportingProviders\{7F041D59-D76A-
44ed-9AA2-FBF6B0548B80}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Description
  Type:            REG_SZ
  Data:
DataProvider_OleDB_OracleDataSource_Description, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 1
  Name:            SpecializedProvider
  Type:            REG_SZ
  Data:            MSDAORA.1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\DataSources\{E5E86CD6-6454-
4fdd-910F-
DC5DFC73EB45}\SupportingProviders\{8F5C5018-AE09-
42cf-B2CC-2CCCC7CFC2BB}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DisplayName
  Type:            REG_SZ
  Data:            DataSource_Oracle, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 1
  Name:            Description
  Type:            REG_SZ
  Data:
DataProvider_Oracle_DataSource_Description, SR,
Microsoft.Data.ConnectionUI.Dialog,
Version=8.0.1200.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Debugger
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            AspProcessNames
  Type:            REG_SZ
  Data:
inetinfo.exe;mtx.exe;dllhost.exe;w3wp.exe


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Designers
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Designers\Metadata
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Designers\Metadata\System.Colle
ctions.Specialized.NameValueCollection, System,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b77a5c561934e089
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.VisualStudio.Configuration.AppSettingsReade
rMetadata, Microsoft.VisualStudio.Configuration,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a
  Type:            REG_DWORD
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Designers\Metadata\System.Confi
guration.AppSettingsReader, System, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.VisualStudio.Configuration.AppSettingsReade
rMetadata, Microsoft.VisualStudio.Configuration,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Designers\Metadata\System.Confi
guration.Install.Installer,
System.Configuration.Install, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.VisualStudio.Configuration.InstallerMetadat
a, Microsoft.VisualStudio.Configuration,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Designers\Metadata\System.Diagn
ostics.EventLog, System, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.VisualStudio.Configuration.EventLogMetadata
, Microsoft.VisualStudio.Configuration,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Designers\Metadata\System.Diagn
ostics.PerformanceCounter, System, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.VisualStudio.Configuration.PerformanceCount
erMetadata, Microsoft.VisualStudio.Configuration,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Designers\Metadata\System.Messa
ging.MessageQueue, System.Messaging, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.VisualStudio.Configuration.MessageQueueMeta
data, Microsoft.VisualStudio.Configuration,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Designers\Metadata\System.Servi
ceProcess.ServiceBase, System.ServiceProcess,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.VisualStudio.Configuration.ServiceBaseMetad
ata, Microsoft.VisualStudio.Configuration,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{0F88EB3F-6E08-411a-
8391-18B1A663DD7D}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            SQL Mobile Script Editor With
Encoding

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #10

Value 3
  Name:            ExcludeDefTextEditor
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            AcceptBinaryFiles
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            LinkedEditorGuid
  Type:            REG_SZ
  Data:            {C5B506FB-13BA-4381-3A48-
41275C4CA2B5}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{0F88EB3F-6E08-411a-
8391-18B1A663DD7D}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            sqlce
  Type:            REG_DWORD
  Data:            0x32

Value 1
  Name:            *
  Type:            REG_DWORD
  Data:            0x19


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{0F88EB3F-6E08-411a-
8391-18B1A663DD7D}\LogicalViews
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{14A63023-F03C-4d14-
8E8F-9D1E2D9325D0}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             MDX Script Editor with encoding

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #8

Value 3
  Name:             ExcludeDefTextEditor
  Type:             REG_DWORD
  Data:             0x1

Value 4
  Name:             AcceptBinaryFiles
  Type:             REG_DWORD
  Data:             0

Value 5
  Name:             LinkedEditorGuid
  Type:             REG_SZ
  Data:             {1CEAF4C2-677D-456a-9BED-
1AC73B989127}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{14A63023-F03C-4d14-
8E8F-9D1E2D9325D0}\Extensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             mdx
  Type:             REG_DWORD
  Data:             0x32

Value 1
  Name:             *
  Type:             REG_DWORD
  Data:             0x15


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{14A63023-F03C-4d14-
8E8F-9D1E2D9325D0}\LogicalViews
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{1CEAF4C2-677D-456a-
9BED-1AC73B989127}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             MDX Script Editor

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #2

Value 3
  Name:             ExcludeDefTextEditor
  Type:             REG_DWORD
  Data:             0x1

Value 4
  Name:             AcceptBinaryFiles
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{1CEAF4C2-677D-456a-
9BED-1AC73B989127}\Extensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             mdx
  Type:             REG_DWORD
  Data:             0x33

Value 1
  Name:             *
  Type:             REG_DWORD
  Data:             0x16


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{1CEAF4C2-677D-456a-
9BED-1AC73B989127}\LogicalViews
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{412B8852-4F21-413B-
9B47-0C9751D3EBFB}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Microsoft XML Editor With Encoding

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {87569308-4813-40a0-9cd0-
d7a30838ca3f}

Value 2
  Name:             LinkedEditorGuid
  Type:             REG_SZ
  Data:             {fa3cd31e-987b-443a-9b81-
186104e8dac1}

Value 3
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #202


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{412B8852-4F21-413B-
9B47-0C9751D3EBFB}\Extensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             *
  Type:             REG_DWORD
  Data:             0x1f

Value 1
  Name:             xml
  Type:             REG_DWORD
  Data:             0x29

Value 2
  Name:             xsl
  Type:             REG_DWORD
  Data:             0x29
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 3
  Name:            xslt
  Type:            REG_DWORD
  Data:            0x29

Value 4
  Name:            xdr
  Type:            REG_DWORD
  Data:            0x29

Value 5
  Name:            dtd
  Type:            REG_DWORD
  Data:            0x29

Value 6
  Name:            config
  Type:            REG_DWORD
  Data:            0x1f

Value 7
  Name:            vssettings
  Type:            REG_DWORD
  Data:            0x1f

Value 8
  Name:            wsdl
  Type:            REG_DWORD
  Data:            0x1f

Value 9
  Name:            browser
  Type:            REG_DWORD
  Data:            0x1f

Value 10
  Name:            sitemap
  Type:            REG_DWORD
  Data:            0x1f

Value 11
  Name:            addin
  Type:            REG_DWORD
  Data:            0x1f

Value 12
  Name:            vstemplate
  Type:            REG_DWORD
  Data:            0x1f


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{412B8852-4F21-413B-
9B47-0C9751D3EBFB}\LogicalViews
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a700-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:

Value 1
  Name:            {7651a701-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:

Value 2
  Name:            {7651a702-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:            Form

Value 3
  Name:            {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:

Value 4
  Name:            {1FCA900B-EDAF-48DD-AF13-
10C8289B8F04}
  Type:            REG_SZ
  Data:            DataGrid


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{74946834-37a0-11d2-
a273-00c04f8ef4ff}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            VSEditorFactory

Value 1
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #1000

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {68939055-38e0-4d17-92cb-
8909710d8178}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{74946834-37a0-11d2-
a273-00c04f8ef4ff}\LogicalViews
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a702-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{7A94C22A-CEC2-4aff-
B648-4C416370FC77}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            XMLA Script Editor with Encoding

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #9

Value 3
  Name:            ExcludeDefTextEditor
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            AcceptBinaryFiles
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            LinkedEditorGuid
  Type:            REG_SZ
  Data:            {B7DF28AE-C9A1-4263-A498-
9897B98336A1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{7A94C22A-CEC2-4aff-
B648-4C416370FC77}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            xmla
  Type:            REG_DWORD
  Data:            0x32

Value 1
  Name:            xml
  Type:            REG_DWORD
  Data:            0x1d

Value 2
  Name:            *
  Type:            REG_DWORD
  Data:            0x17
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{7A94C22A-CEC2-4aff-
B648-4C416370FC77}\LogicalViews
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{8B382828-6202-11d1-
8870-0000F87579D2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Source Code (Text) Editor

Value 1
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #13792

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 3
  Name:             ExcludeInFileExtnMapping
  Type:             REG_DWORD
  Data:             0x1

Value 4
  Name:             EditorTrustLevel
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{8B382828-6202-11d1-
8870-0000F87579D2}\Extensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             *
  Type:             REG_DWORD
  Data:             0x1e

Value 1
  Name:             txt
  Type:             REG_DWORD
  Data:             0x28

Value 2
  Name:             doc
  Type:             REG_DWORD
  Data:             0x17

Value 3
  Name:             rtf
  Type:             REG_DWORD
  Data:             0x17


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{8B382828-6202-11d1-
8870-0000F87579D2}\LogicalViews
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {7651a700-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:

Value 1
  Name:             {7651a701-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:

Value 2
  Name:             {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{A8AE89ED-34A0-489e-
8A98-AEE7CEDEA6B7}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             DMX Script Editor

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #11

Value 3
  Name:             ExcludeDefTextEditor
  Type:             REG_DWORD
  Data:             0x1

Value 4
  Name:             AcceptBinaryFiles
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{A8AE89ED-34A0-489e-
8A98-AEE7CEDEA6B7}\Extensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             dmx
  Type:             REG_DWORD
  Data:             0x32

Value 1
  Name:             *
  Type:             REG_DWORD
  Data:             0x14


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{A8AE89ED-34A0-489e-
8A98-AEE7CEDEA6B7}\LogicalViews
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{B5A506EB-11BE-4782-
9A18-21265C2CA0B4}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             SQL Script Editor

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            #1

Value 3
  Name:            ExcludeDefTextEditor
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            AcceptBinaryFiles
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{B5A506EB-11BE-4782-
9A18-21265C2CA0B4}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            sql
  Type:            REG_DWORD
  Data:            0x33

Value 1
  Name:            *
  Type:            REG_DWORD
  Data:            0x14


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{B5A506EB-11BE-4782-
9A18-21265C2CA0B4}\LogicalViews
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{B7DF28AE-C9A1-4263-
A498-9897B98336A1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            XMLA Script Editor

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #4

Value 3
  Name:            ExcludeDefTextEditor
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            AcceptBinaryFiles
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{B7DF28AE-C9A1-4263-
A498-9897B98336A1}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            xmla
  Type:            REG_DWORD
  Data:            0x33

Value 1
  Name:            xml
  Type:            REG_DWORD
  Data:            0x1e

Value 2
  Name:            *
  Type:            REG_DWORD
  Data:            0x18


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{B7DF28AE-C9A1-4263-
A498-9897B98336A1}\LogicalViews
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{BD41288B-959E-41BC-
9A56-1D1F232059D2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            ShowPlan Editor

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #13

Value 3
  Name:            ExcludeDefTextEditor
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            AcceptBinaryFiles
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{BD41288B-959E-41BC-
9A56-1D1F232059D2}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            sqlplan
  Type:            REG_DWORD
  Data:            0x32


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C1D6FA53-CCC1-4029-
A3E8-942345F173D0}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Deadlock Editor

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #6

Value 3
  Name:            ExcludeDefTextEditor
  Type:            REG_DWORD
  Data:            0x1
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 4
  Name:            AcceptBinaryFiles
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C1D6FA53-CCC1-4029-
A3E8-942345F173D0}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            xdl
  Type:            REG_DWORD
  Data:            0x32


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C5B506FB-13BA-4381-
3A48-41275C4CA2B5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            SQL Mobile Script Editor

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #5

Value 3
  Name:            ExcludeDefTextEditor
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            AcceptBinaryFiles
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C5B506FB-13BA-4381-
3A48-41275C4CA2B5}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            sqlce
  Type:            REG_DWORD
  Data:            0x33

Value 1
  Name:            *
  Type:            REG_DWORD
  Data:            0x1a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C5B506FB-13BA-4381-
3A48-41275C4CA2B5}\LogicalViews
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C76E46D4-B7D7-42b8-
9726-A98D8045B179}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            SQL Script Editor With Encoding

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #7

Value 3
  Name:            ExcludeDefTextEditor
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            AcceptBinaryFiles
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            LinkedEditorGuid
  Type:            REG_SZ
  Data:            {B5A506EB-11BE-4782-9A18-
21265C2CA0B4}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C76E46D4-B7D7-42b8-
9726-A98D8045B179}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            sql
  Type:            REG_DWORD
  Data:            0x32

Value 1
  Name:            *
  Type:            REG_DWORD
  Data:            0x13


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C76E46D4-B7D7-42b8-
9726-A98D8045B179}\LogicalViews
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C7747503-0E24-4fbe-
BE4B-94180C3947D7}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Source Code (Text) Editor with
Encoding

Value 1
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #13190

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 3
  Name:            EditorTrustLevel
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            LinkedEditorGuid
  Type:            REG_SZ
  Data:            {8B382828-6202-11d1-8870-
0000F87579D2}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C7747503-0E24-4fbe-
BE4B-94180C3947D7}\Extensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             *
  Type:             REG_DWORD
  Data:             0x1d

Value 1
  Name:             txt
  Type:             REG_DWORD
  Data:             0x27

Value 2
  Name:             doc
  Type:             REG_DWORD
  Data:             0x16

Value 3
  Name:             rtf
  Type:             REG_DWORD
  Data:             0x16


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{C7747503-0E24-4fbe-
BE4B-94180C3947D7}\LogicalViews
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {7651a700-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:

Value 1
  Name:             {7651a701-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:

Value 2
  Name:             {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{CC84AFBD-DA02-46F4-
8623-9F07E5569EDB}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Data Warehouse Designer

Value 1
  Name:             AcceptBinaryFiles
  Type:             REG_DWORD
  Data:             0

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             DataWarehouse Designer

Value 3
  Name:             ExcludeDefTextEditor
  Type:             REG_DWORD
  Data:             0x1

Value 4
  Name:             Package
  Type:             REG_SZ
  Data:             {4a0c6509-bf90-43da-abee-
0aba3a8527f1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{CC84AFBD-DA02-46F4-
8623-9F07E5569EDB}\DWExtensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             cube
  Type:             REG_SZ
  Data:

Value 1
  Name:             dim
  Type:             REG_SZ
  Data:

Value 2
  Name:             dmm
  Type:             REG_SZ
  Data:

Value 3
  Name:             ds
  Type:             REG_SZ
  Data:

Value 4
  Name:             dsv
  Type:             REG_SZ
  Data:

Value 5
  Name:             partitions
  Type:             REG_SZ
  Data:

Value 6
  Name:             database
  Type:             REG_SZ
  Data:

Value 7
  Name:             role
  Type:             REG_SZ
  Data:

Value 8
  Name:             dtsx
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{CC84AFBD-DA02-46F4-
8623-9F07E5569EDB}\Extensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             cube
  Type:             REG_DWORD
  Data:             0x28

Value 1
  Name:             dim
  Type:             REG_DWORD
  Data:             0x28

Value 2
  Name:             dmm
  Type:             REG_DWORD
  Data:             0x28

Value 3
  Name:             ds
  Type:             REG_DWORD
  Data:             0x28

Value 4
  Name:             dsv
  Type:             REG_DWORD
  Data:             0x28

Value 5
  Name:             partitions
  Type:             REG_DWORD
  Data:             0x28

Value 6
  Name:             database
  Type:             REG_DWORD
  Data:             0x28

Value 7
  Name:             role
  Type:             REG_DWORD
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            0x28

Value 8
  Name:            dtsx
  Type:            REG_DWORD
  Data:            0x28


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{CC84AFBD-DA02-46F4-
8623-9F07E5569EDB}\LogicalViews
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a700-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:

Value 1
  Name:            {7651a701-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:            XML

Value 2
  Name:            {7651a702-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{CC84AFBD-DA02-46F4-
8623-9F07E5569EDB}\OpenWithEntries
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a701-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:            #2001

Value 1
  Name:            {7651a702-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:            #2002


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{CFF630F8-2DB3-44ba-
9FC9-6489665DE5B8}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Object Browser

Value 1
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #13103

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 3
  Name:            EditorTrustLevel
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{CFF630F8-2DB3-44ba-
9FC9-6489665DE5B8}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            olb
  Type:            REG_DWORD
  Data:            0x17

Value 1
  Name:            tlb
  Type:            REG_DWORD
  Data:            0x17

Value 2
  Name:            dll
  Type:            REG_DWORD
  Data:            0x5

Value 3
  Name:            exe
  Type:            REG_DWORD
  Data:            0x5

Value 4
  Name:            ocx
  Type:            REG_DWORD
  Data:            0x5


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{F52E35C3-1150-4ed7-
B0D9-5DBBF66D9F34}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            DMX Script Editor with encoding

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #12

Value 3
  Name:            ExcludeDefTextEditor
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            AcceptBinaryFiles
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            LinkedEditorGuid
  Type:            REG_SZ
  Data:            {A8AE89ED-34A0-489e-8A98-
AEE7CEDEA6B7}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{F52E35C3-1150-4ed7-
B0D9-5DBBF66D9F34}\Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            dmx
  Type:            REG_DWORD
  Data:            0x31

Value 1
  Name:            *
  Type:            REG_DWORD
  Data:            0x13


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{F52E35C3-1150-4ed7-
B0D9-5DBBF66D9F34}\LogicalViews
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Server\90\Tools\Shell\Editors\{fa3cd31e-987b-443a-
9b81-186104e8dac1}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Microsoft XML Editor

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {87569308-4813-40a0-9cd0-
d7a30838ca3f}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #201


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{fa3cd31e-987b-443a-
9b81-186104e8dac1}\Extensions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             *
  Type:             REG_DWORD
  Data:             0x20

Value 1
  Name:             xml
  Type:             REG_DWORD
  Data:             0x2a

Value 2
  Name:             xsl
  Type:             REG_DWORD
  Data:             0x2a

Value 3
  Name:             xslt
  Type:             REG_DWORD
  Data:             0x2a

Value 4
  Name:             xdr
  Type:             REG_DWORD
  Data:             0x2a

Value 5
  Name:             dtd
  Type:             REG_DWORD
  Data:             0x2a

Value 6
  Name:             config
  Type:             REG_DWORD
  Data:             0x20

Value 7
  Name:             vssettings
  Type:             REG_DWORD
  Data:             0x20

Value 8
  Name:             wsdl
  Type:             REG_DWORD
  Data:             0x20

Value 9
  Name:             browser
  Type:             REG_DWORD
  Data:             0x20

Value 10
  Name:             sitemap
  Type:             REG_DWORD
  Data:             0x20

Value 11
  Name:             addin
  Type:             REG_DWORD
  Data:             0x20

Value 12
  Name:             vstemplate
  Type:             REG_DWORD
  Data:             0x20


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Editors\{fa3cd31e-987b-443a-
9b81-186104e8dac1}\LogicalViews
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {7651a700-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:

Value 1
  Name:             {7651a701-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:

Value 2
  Name:             {7651a702-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:             Form

Value 3
  Name:             {7651a703-06e5-11d1-8ebd-
00a0c90f26ea}
  Type:             REG_SZ
  Data:

Value 4
  Name:             {1FCA900B-EDAF-48DD-AF13-
10C8289B8F04}
  Type:             REG_SZ
  Data:             DataGrid


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FindAndReplace
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FindAndReplace\FindScopeString
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Package
  Type:             REG_SZ
  Data:             {DA9FB551-C724-11D0-AE1F-
00A0C90FFFC3}

Value 1
  Name:             FindScopeStringID
  Type:             REG_SZ
  Data:             13813


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FindAndReplace\TrackChanges
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             TrackReplaceChangesUpperLimit
  Type:             REG_SZ
  Data:             1000


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\All Text Tool
Windows
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Package
  Type:             REG_SZ
  Data:             {F5E7E71D-1401-11D1-883B-
0000F87579D2}

Value 1
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            Category
  Type:            REG_SZ
  Data:            {C34C709B-C855-459e-B38C-
3021F162D3B1}

Value 2
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\AllDebuggerVarWnd
s
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {3B70A4AE-BB91-4ABE-A05C-
C4DE07B9763E}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {35B25E75-AB53-4C5D-80EA-
6682EBB2BBBD}

Value 3
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x326


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Autos
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x321

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {A7EE6BEE-D0AA-4B2F-AD9D-
748276A725F6}

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {3B70A4AE-BB91-4ABE-A05C-
C4DE07B9763E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Business
Intelligence Data Viewers
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {96B36E93-F71C-4160-A4EA-
26AE801D2F63}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {45E05167-BEFE-482d-8B9B-
0C329EC847DF}

Value 2
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\CallStack
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x323

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {FD2219AF-EBF8-4116-A801-
3B503C48DFF0}

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {3B70A4AE-BB91-4ABE-A05C-
C4DE07B9763E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Command Window
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {EE1BE240-4E81-4beb-8EEA-
54322B6B1BF5}

Value 2
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x38d2

Value 3
  Name:            ToolWindowPackage
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 4
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Data Warehouse
Designer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {34F54DB8-3D69-4d94-ABD5-
BA1D717AB8BE}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Database Designer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {ADF95D98-9094-4B7B-874A-
D94844D05DCE}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {4C889E8A-2BBB-4DC8-AE21-
B1E4799D7631}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\DataTips
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {F7B7B222-E186-48DF-A5EE-
174E8129891B}

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {3B70A4AE-BB91-4ABE-A05C-
C4DE07B9763E}

Value 3
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x325


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Dialogs and Tool
Windows
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {FD9DC8E3-2FFC-446D-8C50-
99CA4A3D2D1C}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {1F987C00-E7C4-4869-8A17-
23FD602268B0}

Value 2
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Disassembly
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x4

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {9E632E6E-D786-4F9A-8D3E-
B9398836C784}

Value 3
  Name:            ToolWindowPackage
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 4
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Find Results
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {5C48B2CB-0366-4fbf-9786-
0BB37E945687}

Value 2
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x38d1

Value 3
  Name:            ToolWindowPackage
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Find
Results\IncludedItemsFromEditorCategory
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Current List Location
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\GridSQLResults
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Category
  Type:            REG_SZ
  Data:            {E6784B78-8552-41d7-9630-
D1FDEE0DD8E2}

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {F30396AD-50FE-4ae2-9A98-
DC5078302C5E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Immediate Window
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {6BB65C5A-2F31-4bde-9F48-
8A38DC0C63E7}

Value 2
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x38d4

Value 3
  Name:            ToolWindowPackage
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 4
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Locals
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x322

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {8259ACED-490A-41B3-A0FB-
64C842CCDC80}

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {3B70A4AE-BB91-4ABE-A05C-
C4DE07B9763E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Memory
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x99

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {CE2ECED5-C21C-464C-9B45-
15E10E9F9EF9}

Value 3
  Name:            ToolWindowPackage
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 4
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Output Window
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {9973EFDF-317D-431c-8BC1-
5E88CBFD4F7F}

Value 2
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x38d0

Value 3
  Name:            ToolWindowPackage
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 4
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Output
Window\IncludedItemsFromEditorCategory
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Current List Location
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Printer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {47724E70-AF55-48fb-A928-
BB161C1D0C05}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Query/View
Designer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {1F2EEAC2-DCF7-4B90-9412-
2CE752DE5FEB}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {5B50CEC1-B3AB-4CC3-BE1E-
44AF4A07B2AF}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Registers
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x1360

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {40660F54-80FA-4375-89A3-
8D06AA954EBA}

Value 3
  Name:            ToolWindowPackage
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 4
  Name:            Package
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\SqlExecutionPlan
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Category
  Type:            REG_SZ
  Data:            {90A03679-39CF-450f-A9E9-
91DAADF17F38}

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {F30396AD-50FE-4ae2-9A98-
DC5078302C5E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Statement
Completion
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {C1614BB1-734F-4a31-BD42-
5AE6275E16D2}

Value 2
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Text Editor
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {A27B4E24-A735-4d1d-B8E7-
9716E1E3D8E0}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\TextSQLResults
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Category
  Type:            REG_SZ
  Data:            {AD3737CA-26A1-47cb-A143-
0EB0ECBC7FC9}

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {F30396AD-50FE-4ae2-9A98-
DC5078302C5E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Threads
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x324

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {BB8FE807-A186-404A-81FA-
D20B908CA93B}

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {3B70A4AE-BB91-4ABE-A05C-
C4DE07B9763E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\ToolTips
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E71D-1401-11D1-883B-
0000F87579D2}

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {A9A5637F-B2A8-422e-8FB5-
DFB4625F0111}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\FontAndColors\Watch
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            HideInDialog
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            NameID
  Type:            REG_DWORD
  Data:            0x320

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {358463D0-D084-400F-997E-
A34FC570BC72}

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {3B70A4AE-BB91-4ABE-A05C-
C4DE07B9763E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Generators
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Generators\{164b10b9-b200-11d0-
8c61-00a0c91e29d5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Generators\{164b10b9-b200-11d0-
8c61-00a0c91e29d5}\ResXFileCodeGenerator
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            GeneratesDesignTimeSource
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            CLSID
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            {c77981ec-ba19-3348-878f-
6f88745a251e}

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft ResX File Code Generator


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Generators\{164b10b9-b200-11d0-
8c61-00a0c91e29d5}\VbMyResourcesResXFileCodeGenerator
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft Visual Basic Primary
My.Resources ResX File Code Generator

Value 1
  Name:            CLSID
  Type:            REG_SZ
  Data:            {0452cd78-e6bf-4d67-848b-
994dce92a503}

Value 2
  Name:            GeneratesDesignTimeSource
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Generators\{e6fdf8b0-f3d1-11d4-
8576-0002a516ece8}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Generators\{e6fdf8b0-f3d1-11d4-
8576-0002a516ece8}\ResXFileCodeGenerator
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft ResX File Code Generator

Value 1
  Name:            CLSID
  Type:            REG_SZ
  Data:            {c77981ec-ba19-3348-878f-
6f88745a251e}

Value 2
  Name:            GeneratesDesignTimeSource
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Generators\{fae04ec1-301f-11d3-
bf4b-00c04f79efbc}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Generators\{fae04ec1-301f-11d3-
bf4b-00c04f79efbc}\ResXFileCodeGenerator
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft ResX File Code Generator

Value 1
  Name:            CLSID
  Type:            REG_SZ
  Data:            {c77981ec-ba19-3348-878f-
6f88745a251e}

Value 2
  Name:            GeneratesDesignTimeSource
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\GlobalObjectProviders
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {0dfbe0f3-bc01-3308-a764-
9edcaeb3bfc3}
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.Serialization.ResXGloba
lObjectProvider


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{0000010E-
0000-0000-C000-000000000046}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDataObject


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{00000116-
0000-0000-C000-000000000046}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IOleInPlaceFrame


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{00000135-
0000-0000-C000-000000000046}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IInterfaceFromWindowProp


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{00020404-
0000-0000-C000-000000000046}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IEnumVARIANT


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{037EDD0F-
8551-4F7F-8CA0-04D9E29F532D}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugDocumentPositionOffset2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{0751E85E-
3BE0-47B1-8108-D1A105BE2AE9}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            IDebugAutoAttachCallback2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{12C1180E-
C257-4485-9800-AF484B699713}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugCoreServer3


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{17BF8FA3-
4C5A-49A3-B2F8-5942E1EA287E}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugCoreServer2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{1EDE3B4B-
35E7-4B97-8133-02845D600174}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugFunctionPosition2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{2EA4C00D-
7156-4F8E-B990-FB4271147617}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugJIT2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{302F0F55-
1EDE-4777-9B38-115E1F229D56}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugDefaultPort2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{3050F1FF-
98B5-11CF-BB82-00AA00BDCE0B}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IHTMLElement


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{3050F21F-
98B5-11CF-BB82-00AA00BDCE0B}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IHTMLElementCollection


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{332c4425-
26cb-11d0-b483-00c04fd90119}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IHTMLDocument2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{33EC72E3-
002F-4966-B91C-5CE2F7BA5124}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugDocumentTextEvents2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{43286FEA-
6997-4543-803E-60A20C473DE5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugProcess2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{5C18A5FE-
7150-4E66-8246-27BFB0E7BFD9}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugBreakpointRequest3


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{6015FD18-
8257-4DF3-AC42-F074DEDD4CBD}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugBreakpointRequest2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{618736e0-
3c3d-11cf-810c-00aa00389b71}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IAccessible


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{69D172EF-
F2C4-44E1-89F7-C86231E706E9}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IDebugProgram2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{6D5140C1-
7436-11CE-8034-00AA006009FA}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            IServiceProvider
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{79293CC8-
D9D9-43F5-97AD-0BCC5A688776}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IDebugPort2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{7C2AAE9E-
6178-4A88-8904-B57169B655EA}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IPrivateSession


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{8195CA66-
1B46-44fb-9E02-DA6BD7C7A68C}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IVsHelpAppidInfo


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{8948300F-
8BD5-4728-A1D8-83D172295A9D}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IDebugSession2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{8D36BEB8-
9BFE-47DD-A11B-7BA1DE18E449}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IDebugPortRequest2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{9C1B8A40-
7C24-11d3-8E6E-005004775AC2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IVsSccDlgControl


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{A96ABCCC-
C55B-44E4-8977-CD815EA33A58}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             ISessionNotifySink2_V7


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{ADE2EEB9-
FC85-4F5B-B5D9-D431B4AAC31A}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IDebugEventCallback2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{B196B284-
BAB4-101A-B69C-00AA00341D07}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IConnectionPointContainer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{B196B286-
BAB4-101A-B69C-00AA00341D07}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IConnectionPoint


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{B2F73449-
98EA-4866-90A0-425837FC5E23}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IDebugIDEJIT2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{B9B0983A-
364C-4866-873F-D5ED190138FB}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IVsHelpOwner


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{BB7BE481-
DA8F-4B9E-89CB-0A8DDE6BC5D7}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IEEHostServices


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{BDDE0EEE-
3B8D-4C82-B529-33F16B42832E}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IDebugDocumentPosition2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{C43CC2F3-
90AF-4E93-9112-DFB8B36749B5}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             INotifySink2
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{D78A277B-
79AB-4FBD-99AE-FD4A770D6D6A}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             IDebugCausalityEventCallback2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{F239E580-
DB73-11D0-938A-00A0C9034910}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             ISqlDebugEvent


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\HandleInComingCall\{F239E584-
DB73-11D0-938A-00A0C9034910}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             ISqlDebugEvent2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Help
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             ExternalCLSID
  Type:             REG_SZ
  Data:             {639F725F-1B2D-4831-A9FD-
874847682010}

Value 1
  Name:             RegToken
  Type:             REG_SZ
  Data:             SQLServerBooksOnline.9.0

Value 2
  Name:             CurrentChannel
  Type:             REG_SZ
  Data:             SQLHowDoI90

Value 3
  Name:             AskAQuestionUrl
  Type:             REG_SZ
  Data:
http://go.microsoft.com/fwlink/?LinkId=34176

Value 4
  Name:             CheckQuestionStatusUrl
  Type:             REG_SZ
  Data:
http://go.microsoft.com/fwlink/?LinkId=34177

Value 5
  Name:             SendFeedbackUrl
  Type:             REG_SZ
  Data:
http://go.microsoft.com/fwlink/?LinkId=34178

Value 6
  Name:             DeveloperCenter
  Type:             REG_SZ
  Data:
http://go.microsoft.com/fwlink/?LinkId=36645

Value 7
  Name:             TechSupport
  Type:             REG_SZ
  Data:
http://go.microsoft.com/fwlink/?LinkId=16419

Value 8
  Name:             CodeWiseProductVersFilter
  Type:             REG_SZ
  Data:             kbsqlserv90

Value 9
  Name:             CheckHelpInstalled
  Type:             REG_SZ
  Data:             9.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Help\0x0409
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Collection
  Type:             REG_SZ
  Data:             {555864C2-A0A2-4433-9515-
8B78FF404FE4}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Help\0x0409\{555864C2-A0A2-
4433-9515-8B78FF404FE4}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             FileName
  Type:             REG_SZ
  Data:             ms-help://MS.SQLCC.v9

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             SQL Server Books Online


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Help\0x0409\{555864C2-A0A2-
4433-9515-8B78FF404FE4}\Registration
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             RegisteredPID
  Type:             REG_SZ
  Data:

Value 1
  Name:             RegisteredOrganization
  Type:             REG_SZ
  Data:             HP

Value 2
  Name:             RegisteredName
  Type:             REG_SZ
  Data:             DBLAB


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Help\0x0409\{A3F6F5AD-483E-
482f-9780-88C856B6678B}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             FileName
  Type:             REG_SZ
  Data:             ms-help://MS.SQLSVR.v9.en

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             SQL Server Books Online

Value 2
  Name:             VS_Docs
  Type:             REG_SZ
  Data:             9.0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Help\VisibleFilters
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             SQLFilter90
  Type:             REG_DWORD
  Data:             0x1
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Help\VisiblePages
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             SQLHowDoI90
  Type:             REG_DWORD
  Data:             0x1

Value 1
  Name:             SQLAdminHowDoI90
  Type:             REG_DWORD
  Data:             0x1

Value 2
  Name:             SQLBIHowDoI90
  Type:             REG_DWORD
  Data:             0x1

Value 3
  Name:             SQLDevHowDoI90
  Type:             REG_DWORD
  Data:             0x1

Value 4
  Name:             SQLMobileHowDoI90
  Type:             REG_DWORD
  Data:             0x1

Value 5
  Name:             SQLNSHowDoI90
  Type:             REG_DWORD
  Data:             0x1

Value 6
  Name:             SQLRSHowDoI90
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\InstalledProducts
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\InstalledProducts\Analysis
Services Designer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Package
  Type:             REG_SZ
  Data:             {EABA99F3-7341-4105-8A3F-
1C4F3955C4FC}

Value 1
  Name:             UseInterface
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\InstalledProducts\Microsoft SQL
Server Management Studio
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Microsoft SQL Server Management
Studio

Value 1
  Name:             DefaultProductAttribute
  Type:             REG_SZ
  Data:             SQLServer

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {C3507EB2-B615-4870-BCDB-
10990EED0CC4}

Value 3
  Name:             UseInterface
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\InstalledProducts\SQL Server
Integration Services
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Package
  Type:             REG_SZ
  Data:             {96B36E93-F71C-4160-A4EA-
26AE801D2F63}

Value 1
  Name:             UseInterface
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{1CEAF4C2-
677D-456a-9BED-1AC73B989127}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #2

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{4194fee5-
6777-419f-a5fc-47a536df1bdb}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Package
  Type:             REG_SZ
  Data:             {d6c919aa-1217-41e2-a13b-
9b92e1866305}

Value 1
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0

Value 2
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #316


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{5efc7975-
14bc-11cf-9b2b-00AA00573819}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #13021

Value 1
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0

Value 2
  Name:             Package
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {DA9FB551-C724-11D0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{8B382828-
6202-11d1-8870-0000F87579D2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #13022

Value 1
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0x1

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {DA9FB551-C724-11D0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{A8AE89ED-
34A0-489e-8A98-AEE7CEDEA6B7}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #11

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{b2c40b32-
3a37-4ca9-97b9-fa44248b69ff}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Package
  Type:             REG_SZ
  Data:             {d6c919aa-1217-41e2-a13b-
9b92e1866305}

Value 1
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0

Value 2
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #313


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{B5A506EB-
11BE-4782-9A18-21265C2CA0B4}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #1

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{B7DF28AE-
C9A1-4263-A498-9897B98336A1}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #4

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{b968e165-
98e0-41f0-8fbe-a8ed1d246a90}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Package
  Type:             REG_SZ
  Data:             {d6c919aa-1217-41e2-a13b-
9b92e1866305}

Value 1
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0

Value 2
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #314


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{C5B506FB-
13BA-4381-3A48-41275C4CA2B5}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #5

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{cff78a9b-
78a3-45a3-9142-0267afc261fa}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Package
  Type:             REG_SZ
  Data:             {d6c919aa-1217-41e2-a13b-
9b92e1866305}

Value 1
  Name:             AllowNavKeyBinding
  Type:             REG_DWORD
  Data:             0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #315


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\KeyBindingTables\{e8b06f41-
6d01-11d2-aa7d-00c04f990343}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #1001

Value 1
  Name:            AllowNavKeyBinding
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {e8b06f41-6d01-11d2-aa7d-
00c04f990343}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\CodeExpansions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Perf
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\CodeExpansions\XML
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            ShowRoots
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {87569308-4813-40a0-9cd0-
d7a30838ca3f}

Value 3
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #200

Value 4
  Name:            LangStringID
  Type:            REG_SZ
  Data:            xml

Value 5
  Name:            IndexPath
  Type:            REG_SZ
  Data:
%InstallRoot%\xml\ExpansionsIndex.xml


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\CodeExpansions\XML\Pa
ths
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Microsoft XML
  Type:            REG_SZ
  Data:
%InstallRoot%\xml\%LCID%\Expansions\;%MyDocs%\Code
Snippets\XML\My Xml Snippets\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File
Extensions\.addin
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Add-in definition file

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File
Extensions\.browser
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Browser Capabilities File


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File
Extensions\.config
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            .NET Configuration File


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.cube
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File
Extensions\.database
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.dim
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.dmm
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.dmx
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {2D6FF84D-C3F6-48a0-9C7B-
96F4958E92E8}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             DMX Language


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.ds
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.dsv
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.dtd
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             XML Document Type Definition


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.dtsx
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.mdx
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {2D6FF84D-C3F6-48a0-9C7B-
96F4958E92E8}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             MDX Language


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File
Extensions\.partitions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.role
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File
Extensions\.sitemap
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             ASP website map


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.sql
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {9EAD5E55-B4C2-4d9f-A5E7-
24CD72F9B2AC}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SQL


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File
Extensions\.sqlce
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {0D93BB4F-4FBC-49ee-BF10-
A0AB762B866E}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SQL CE


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File
Extensions\.vssettings
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Visual Studio User Settings


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File
Extensions\.vstemplate
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Template wizard file


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.wsdl
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Web Service Description Language


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.xdl
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Deadlock


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.xdr
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            XML Data Reduced Schema


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.xml
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Xml File


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.xmla
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            XMLA


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.xsl
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Xsl File


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\File Extensions\.xslt
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Xsl File


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language Services
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\Disassembly
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C16FB7C4-9F84-11D2-8405-
00C04F9902C1}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 2
  Name:            LangResID
  Type:            REG_DWORD
  Data:            0x4

Value 3
  Name:            ShowCompletion
  Type:            REG_DWORD
  Data:            0

Value 4
  Name:            ShowSmartIndent
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotALanguage
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language Services\ENC
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {75058B12-F5A9-4B1C-9161-
9B3754D7488F}

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 2
  Name:            LangResID
  Type:            REG_DWORD
  Data:            0x138d

Value 3
  Name:            ShowCompletion
  Type:            REG_DWORD
  Data:            0

Value 4
  Name:            ShowSmartIndent
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotALanguage
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language Services\MDX
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {2D6FF84D-C3F6-48a0-9C7B-
96F4958E92E8}

Value 1
  Name:            LangResID
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {E444C1DD-7C8E-4126-81C8-
392C63BFEBE3}

Value 3
  Name:            ShowCompletion
  Type:            REG_DWORD
  Data:            0

Value 4
  Name:            ShowSmartIndent
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            RequestStockColors
  Type:            REG_DWORD
  Data:            0

Value 6
  Name:            ShowHotURLs
  Type:            REG_DWORD
  Data:            0

Value 7
  Name:            Default to Non Hot URLs
  Type:            REG_DWORD
  Data:            0

Value 8
  Name:            DefaultToInsertSpaces
  Type:            REG_DWORD
  Data:            0

Value 9
  Name:            ShowDropdownBarOption
  Type:            REG_DWORD
  Data:            0

Value 10
  Name:            Single Code Window Only
  Type:            REG_DWORD
  Data:            0x1

Value 11
  Name:            EnableAdvancedMembersOption
  Type:            REG_DWORD
  Data:            0

Value 12
  Name:            Support CF_HTML
  Type:            REG_DWORD
  Data:            0

Value 13
  Name:            NotALanguage
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\MDX\Debugger Languages
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\MDX\EditorToolsOptions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\Memory
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DF38847E-CC19-11D2-8ADA-
00C04F79E479}

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 2
  Name:            LangResID
  Type:            REG_DWORD
  Data:            0x99

Value 3
  Name:            ShowCompletion
  Type:            REG_DWORD
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            0

Value 4
  Name:            ShowSmartIndent
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotALanguage
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\Register
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {13F6A341-59C0-11D3-994C-
00C04F68FDAF}

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 2
  Name:            LangResID
  Type:            REG_DWORD
  Data:            0x1360

Value 3
  Name:            ShowCompletion
  Type:            REG_DWORD
  Data:            0

Value 4
  Name:            ShowSmartIndent
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotALanguage
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language Services\SQL
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {9EAD5E55-B4C2-4d9f-A5E7-
24CD72F9B2AC}

Value 1
  Name:            EnableAdvancedMembersOption
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            LangResID
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {E444C1DD-7C8E-4126-81C8-
392C63BFEBE3}

Value 4
  Name:            RequestStockColors
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            ShowCompletion
  Type:            REG_DWORD
  Data:            0

Value 6
  Name:            ShowSmartIndent
  Type:            REG_DWORD
  Data:            0x1

Value 7
  Name:            Single Code Window Only
  Type:            REG_DWORD
  Data:            0x1

Value 8
  Name:            HideAdvancedMembersByDefault
  Type:            REG_DWORD
  Data:            0x1

Value 9
  Name:            NotALanguage
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\SQL\Debugger Languages
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\SQL\EditorToolsOptions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\SQLCE
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {0D93BB4F-4FBC-49ee-BF10-
A0AB762B866E}

Value 1
  Name:            EnableAdvancedMembersOption
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            LangResID
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {E444C1DD-7C8E-4126-81C8-
392C63BFEBE3}

Value 4
  Name:            RequestStockColors
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            ShowCompletion
  Type:            REG_DWORD
  Data:            0

Value 6
  Name:            ShowSmartIndent
  Type:            REG_DWORD
  Data:            0x1

Value 7
  Name:            Single Code Window Only
  Type:            REG_DWORD
  Data:            0x1

Value 8
  Name:            HideAdvancedMembersByDefault
  Type:            REG_DWORD
  Data:            0x1

Value 9
  Name:            NotALanguage
  Type:            REG_DWORD
  Data:            0x1
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\SQLCE\Debugger Languages
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\SQLCE\EditorToolsOptions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language Services\XML
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {f6819a78-a205-47b5-be1c-
675b3c7f0b8e}

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {87569308-4813-40a0-9cd0-
d7a30838ca3f}

Value 2
  Name:             LangResId
  Type:             REG_DWORD
  Data:             0

Value 3
  Name:             RequestStockColors
  Type:             REG_DWORD
  Data:             0

Value 4
  Name:             QuickInfo
  Type:             REG_DWORD
  Data:             0x1

Value 5
  Name:             CodeSenseDelay
  Type:             REG_DWORD
  Data:             0x1f4

Value 6
  Name:             CodeSenseFastOnLineChange
  Type:             REG_DWORD
  Data:             0x1

Value 7
  Name:             MatchBraces
  Type:             REG_DWORD
  Data:             0x1

Value 8
  Name:             MatchBracesAtCaret
  Type:             REG_DWORD
  Data:             0

Value 9
  Name:             ShowCompletion
  Type:             REG_DWORD
  Data:             0x1

Value 10
  Name:             ShowMatchingBrace
  Type:             REG_DWORD
  Data:             0x1

Value 11
  Name:             SortMemberList
  Type:             REG_DWORD
  Data:             0x1

Value 12
  Name:             MaxErrorMessages
  Type:             REG_DWORD
  Data:             0x64

Value 13
  Name:             DefaultSchemaDir
  Type:             REG_SZ
  Data:             %VsInstallDir%\xml\Schemas

Value 14
  Name:             ShowSmartIndent
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\XML\EditorToolsOptions
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\XML\EditorToolsOptions\Formatting
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #204

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {87569308-4813-40a0-9cd0-
d7a30838ca3f}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {6d677434-2ccb-4e82-b67b-
1b4839cdba81}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\XML\EditorToolsOptions\Miscellaneous
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #203

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {87569308-4813-40a0-9cd0-
d7a30838ca3f}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {4E1CDE49-B840-4826-8CC6-
8FB80D7EF455}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\XMLA
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {B1AABE06-845A-4c56-9144-
AA6FDB7D390D}

Value 1
  Name:             LangResID
  Type:             REG_DWORD
  Data:             0

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {E444C1DD-7C8E-4126-81C8-
392C63BFEBE3}

Value 3
  Name:             ShowCompletion
  Type:             REG_DWORD
  Data:             0

Value 4
  Name:             ShowSmartIndent
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            RequestStockColors
  Type:            REG_DWORD
  Data:            0

Value 6
  Name:            ShowHotURLs
  Type:            REG_DWORD
  Data:            0

Value 7
  Name:            Default to Non Hot URLs
  Type:            REG_DWORD
  Data:            0

Value 8
  Name:            DefaultToInsertSpaces
  Type:            REG_DWORD
  Data:            0

Value 9
  Name:            ShowDropdownBarOption
  Type:            REG_DWORD
  Data:            0

Value 10
  Name:            Single Code Window Only
  Type:            REG_DWORD
  Data:            0x1

Value 11
  Name:            EnableAdvancedMembersOption
  Type:            REG_DWORD
  Data:            0

Value 12
  Name:            Support CF_HTML
  Type:            REG_DWORD
  Data:            0

Value 13
  Name:            NotALanguage
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\XMLA\Debugger Languages
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Languages\Language
Services\XMLA\EditorToolsOptions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Menus
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}
  Type:            REG_SZ
  Data:            ,1000, 1

Value 1
  Name:            {96B36E93-F71C-4160-A4EA-
26AE801D2F63}
  Type:            REG_SZ
  Data:            ,1000, 1

Value 2
  Name:            {F30396AD-50FE-4ae2-9A98-
DC5078302C5E}
  Type:            REG_SZ
  Data:            ,1000,1

Value 3
  Name:            {d6c919aa-1217-41e2-a13b-
9b92e1866305}
  Type:            REG_SZ
  Data:            , 541, 32

Value 4
  Name:            {A4B8E50B-6DC3-400d-97CD-
732ADD1F3140}
  Type:            REG_SZ
  Data:            ,1000,1

Value 5
  Name:            {C3507EB2-B615-4870-BCDB-
10990EED0CC4}
  Type:            REG_SZ
  Data:            ,1000,1

Value 6
  Name:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}
  Type:            REG_SZ
  Data:            ,1000,1

Value 7
  Name:            {6E87CFAD-6C05-4adf-9CD7-
3B7943875B7C}
  Type:            REG_SZ
  Data:            ,101,1

Value 8
  Name:            {44E07B02-29A5-11D3-B882-
00C04F79F802}
  Type:            REG_SZ
  Data:            ,1000,1

Value 9
  Name:            {7494682b-37a0-11d2-a273-
00c04f8ef4ff}
  Type:            REG_SZ
  Data:            , 1, 1

Value 10
  Name:            {87569308-4813-40a0-9cd0-
d7a30838ca3f}
  Type:            REG_SZ
  Data:            ,1001,1

Value 11
  Name:            {AA8EB8CD-7A51-11D0-92C3-
00A0C9138C45}
  Type:            REG_SZ
  Data:            ,1,6

Value 12
  Name:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}
  Type:            REG_SZ
  Data:            , 1000, 1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\NewProjectTemplates
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\NewProjectTemplates\TemplateDir
s
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\NewProjectTemplates\TemplateDir
s\{C3507EB2-B615-4870-BCDB-10990EED0CC4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\NewProjectTemplates\TemplateDir
s\{C3507EB2-B615-4870-BCDB-10990EED0CC4}\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #7

Value 1
  Name:            TemplatesDir
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
Projects

Value 2
  Name:            SortPriority
  Type:            REG_DWORD
  Data:            0x3e8

Value 3
  Name:            NewProjectDialogOnly
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Object Libraries
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Object Libraries\{18E32C04-
58BA-4a1e-80DE-1C291634166A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            SQL_Tools90

Value 1
  Name:            Page
  Type:            REG_SZ
  Data:            COM


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Object Libraries\{18E32C04-
58BA-4a1e-80DE-1C291634166A}\Filters
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Object Libraries\{18E32C04-
58BA-4a1e-80DE-1C291634166A}\Filters\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14303

Value 1
  Name:            FileFilter
  Type:            REG_SZ
  Data:            *.olb;*.tlb;*.dll

Value 2
  Name:            Priority
  Type:            REG_DWORD
  Data:            0xc8


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Object Libraries\{18E32C04-
58BA-4a1e-80DE-1C291634166A}\Filters\2
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14304

Value 1
  Name:            FileFilter
  Type:            REG_SZ
  Data:            *.dll;*.exe

Value 2
  Name:            Priority
  Type:            REG_DWORD
  Data:            0xc8


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Object Libraries\{18E32C04-
58BA-4a1e-80DE-1C291634166A}\Filters\3
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14305

Value 1
  Name:            FileFilter
  Type:            REG_SZ
  Data:            *.ocx

Value 2
  Name:            Priority
  Type:            REG_DWORD
  Data:            0xc8


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Object Libraries\{1EC72FD7-
C820-4273-9A21-777A5C522E03}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Page
  Type:            REG_SZ
  Data:            COM+

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Object Libraries\{1EC72FD7-
C820-4273-9A21-777A5C522E03}\Filters
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Object Libraries\{1EC72FD7-
C820-4273-9A21-777A5C522E03}\Filters\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Priority
  Type:            REG_DWORD
  Data:            0x64

Value 1
  Name:            FileFilter
  Type:            REG_SZ
  Data:            *.dll;*.exe


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\OutputWindow
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\OutputWindow\{1BD8A850-02D1-
11d1-BEE7-00A0C913D1F8}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14102

Value 1
  Name:            InitiallyInvisible
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Server\90\Tools\Shell\OutputWindow\{2032b126-7c8d-
48ad-8026-0e0348004fc0}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #14321

Value 1
  Name:             InitiallyInvisible
  Type:             REG_DWORD
  Data:             0x1

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\OutputWindow\{CBF36220-3F6F-
11d1-8631-006008184050}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Package
  Type:             REG_SZ
  Data:             {AA8EB8CD-7A51-11D0-92C3-
00A0C9138C45}

Value 1
  Name:             InitiallyInvisible
  Type:             REG_DWORD
  Data:             0x1

Value 2
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #508


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\OutputWindow\{FC076020-078A-
11D1-A7DF-00A0C9110051}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #66

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Debug

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 3
  Name:             InitiallyInvisible
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{0B680757-2C29-4531-
80FA-535A5178AA98}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Visual Studio Code Snippets
Package

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{1D76B2E0-F11B-11d2-
AFC3-00105A9991EF}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Undo Package

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{1D76B2E0-F11B-11d2-
AFC3-00105A9991EF}\SatelliteDll
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             DllName
  Type:             REG_SZ
  Data:             msenvui.dll

Value 1
  Name:             Path
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{21af45b0-ffa5-11d0-
b63f-00a0c922e851}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Class Outline Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{21af45b0-ffa5-11d0-
b63f-00a0c922e851}\SatelliteDll
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Path
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 1
  Name:             DllName
  Type:             REG_SZ
  Data:             msenvui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{220A4C17-7E7C-4663-
BBCC-5E607C6543CD}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Visual Database Tools Package

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80p
.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{220A4C17-7E7C-4663-
BBCC-5E607C6543CD}\Automation
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DataService
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{220A4C17-7E7C-4663-
BBCC-5E607C6543CD}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            vdt80pui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{282BD676-8B5B-11D0-
8A34-00A0C91E2ACD}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\vssln.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Solution Build Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{282BD676-8B5B-11D0-
8A34-00A0C91E2ACD}\ExData
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {64AC2454-BD18-11d1-87B5-
00A0C91E2A46}
  Type:            REG_SZ
  Data:            {43B36B80-BE04-11d1-B546-
00A0C90F26F7}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{282BD676-8B5B-11D0-
8A34-00A0C91E2ACD}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            vsslnui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4058755A-8FBE-41C7-
BC99-3DBF5C74BA62}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft SQL Server Editors
Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.SqlServer.Management.UI.VSIntegration.Edito
rs.EditorFactoryPackage

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            SQLEditors, Version=9.00.242.00,
Culture=neutral, PublicKeyToken=89845dcd8080cc91

Value 4
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 5
  Name:            CompanyName
  Type:            REG_SZ
  Data:            Microsoft

Value 6
  Name:            ProductName
  Type:            REG_SZ
  Data:            Microsoft SQL Server Management
Studio

Value 7
  Name:            ProductVersion
  Type:            REG_SZ
  Data:            9.0

Value 8
  Name:            MinEdition
  Type:            REG_SZ
  Data:            professional

Value 9
  Name:            ID
  Type:            REG_DWORD
  Data:            0x1

Value 10
  Name:            Preload
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4058755A-8FBE-41C7-
BC99-3DBF5C74BA62}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            SQLEditors.rll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{44E07B02-29A5-11D3-
B882-00C04F79F802}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio Commands Definition
Package
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\cmddef.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{44E07B02-29A5-11D3-
B882-00C04F79F802}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            cmddefui.dll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            DataWarehouse VSIntegration layer

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.VsIntegration.Shell.DWDesigne
rPackage

Value 4
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.VsIntegration,
Version=9.00.242.00, Culture=neutral,
PublicKeyToken=89845dcd8080cc91

Value 5
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            v1.1.4322

Value 6
  Name:            CompanyName
  Type:            REG_SZ
  Data:            Microsoft Corporation

Value 7
  Name:            ProductName
  Type:            REG_SZ
  Data:            DataWarehouse VSIntegration layer

Value 8
  Name:            ProductVersion
  Type:            REG_SZ
  Data:            9.0

Value 9
  Name:            MinEdition
  Type:            REG_SZ
  Data:            Standard

Value 10
  Name:            ID
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\DWProjects
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\DWProjects\asproj
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Analysis Services Project

Value 1
  Name:            DocumentObject
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.VsIntegration.Designer.Serial
ization.TextBufferDocumentObject,
Microsoft.DataWarehouse.VsIntegration,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:            Project
  Type:            REG_SZ
  Data:            {d2abab84-bf74-430a-b69e-
9dc6d40dda17}

Value 3
  Name:            ProjectManager
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.AnalysisServicesPr
ojectManager, Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:            MasterTemplate
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence Projects\AnalysisServicesProject.dwproj


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\DWProjects\asproj\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Analysis Services Project

Value 1
  Name:            DocumentObject
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.ComponentModel.Dat
abaseOnlineDocumentObject,
Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:            Project
  Type:            REG_SZ
  Data:            {d2abab84-bf74-430a-b69e-
9dc6d40dda17}

Value 3
  Name:            ProjectManager
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.OnlineAnalysisServ
icesProjectManager,
Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\DWProjects\dtproj
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Data Transformations Project

Value 1
  Name:            DocumentObject
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.VsIntegration.Designer.Serial
ization.TextBufferDocumentObject,
Microsoft.DataWarehouse.VsIntegration

Value 2
  Name:            Project
  Type:            REG_SZ
  Data:            {d183a3d8-5fd8-494b-b014-
37f57b35e655}

Value 3
  Name:            ProjectManager
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.Project.DataTran
sformationsProjectManager,
Microsoft.DataTransformationServices.VsIntegration

Value 4
  Name:            MasterTemplate
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Projects\DataTransformationsProject.dtproj


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\DWProjects\dtproj\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Data Transformations Project

Value 1
  Name:            DocumentObject
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.Project.OnlineDt
sProjectDocumentObject,
Microsoft.DataTransformationServices.VsIntegration

Value 2
  Name:            Project
  Type:            REG_SZ
  Data:            {d183a3d8-5fd8-494b-b014-
37f57b35e655}

Value 3
  Name:            ProjectManager
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.Project.OnlineDa
taTransformationsProjectManager,
Microsoft.DataTransformationServices.VsIntegration


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\DWProjects\dwproj
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Analysis Services Project

Value 1
  Name:            DocumentObject
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.VsIntegration.Designer.Serial
ization.TextBufferDocumentObject,
Microsoft.DataWarehouse.VsIntegration,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:            Project
  Type:            REG_SZ
  Data:            {d2abab84-bf74-430a-b69e-
9dc6d40dda17}

Value 3
  Name:            ProjectManager
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.AnalysisServicesPr
ojectManager, Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:            MasterTemplate
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence Projects\AnalysisServicesProject.dwproj


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\DWProjects\dwproj\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Analysis Services Project

Value 1
  Name:            DocumentObject
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.ComponentModel.Dat
abaseOnlineDocumentObject,
Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:            Project
  Type:            REG_SZ
  Data:            {d2abab84-bf74-430a-b69e-
9dc6d40dda17}

Value 3
  Name:            ProjectManager
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.OnlineAnalysisServ
icesProjectManager,
Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\DWProjects\dwproj\2
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Analysis Services Project

Value 1
  Name:            DocumentObject
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.VsIntegration.Designer.Serial
ization.ComponentDocumentObject,
Microsoft.DataWarehouse.VsIntegration,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:            Project
  Type:            REG_SZ
  Data:            {d2abab84-bf74-430a-b69e-
9dc6d40dda17}

Value 3
  Name:            ProjectManager
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.ViewersProject.Vie
wersProjectManager,
Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\SatelliteDll
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             DllName
  Type:             REG_SZ
  Data:
Microsoft.DataWarehouse.VsIntegration.rll

Value 1
  Name:             Path
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Data Warehouse Designer Settings


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\BI Solution
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\BI
Solution\ProjectTemplates
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Database
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence Wizards\Database\DatabaseProject.dbp

Value 1
  Name:             AnalysisServices
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\AnalysisServices\AnalysisServicesProject.dwpr
oj

Value 2
  Name:             Dts
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\DataTransformationServices\DataTransformation
sProject.dtproj

Value 3
  Name:             Reports
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence Wizards\Reports\ReportProject.vsz

Value 4
  Name:             CSharpAMOSproc
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\CSharp\CSharpDWWizards\AMOSt
oredProcedure.vsz

Value 5
  Name:             CSharpADOMDSproc
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\CSharp\CSharpDWWizards\ADOMD
StoredProcedure.vsz

Value 6
  Name:             CSharpWinApp
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\CSharp\CSharpDWWizards\Windo
wsApplication.vsz

Value 7
  Name:             CSharpWebApp
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\CSharp\CSharpDWWizards\WebAp
plication.vsz

Value 8
  Name:             VBAMOSproc
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\VB\VBDWWizards\AMOStoredProc
edure.vsz

Value 9
  Name:             VBADOMDSproc
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\VB\VBDWWizards\ADOMDStoredPr
ocedure.vsz

Value 10
  Name:             VBWinApp
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\VB\VBDWWizards\WindowsApplic
ation.vsz

Value 11
  Name:             VBWebApp
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\VB\VBDWWizards\WebApplicatio
n.vsz

Value 12
  Name:             JSharpAMOSproc
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\JSharp\JSharpDWWizards\AMOSt
oredProcedure.vsz

Value 13
  Name:             JSharpADOMDSproc
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\JSharp\JSharpDWWizards\ADOMD
StoredProcedure.vsz


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\Debug
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\Debug\Options
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            DelegateMessageFilter
  Type:            REG_SZ
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\Designers
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\Designers\CommandUIGuids
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            cube
  Type:            REG_SZ
  Data:            {B0575F10-2219-429c-A1D5-
C915D81D25BD}

Value 1
  Name:            database
  Type:            REG_SZ
  Data:            {706E2F7B-74D8-4c00-86C2-
41242A334F76}

Value 2
  Name:            dim
  Type:            REG_SZ
  Data:            {7E3E03ED-36CA-4626-885F-
6A531531CEA9}

Value 3
  Name:            dmm
  Type:            REG_SZ
  Data:            {F003262C-6FA5-4325-82EC-
246A95D34BAF}

Value 4
  Name:            ds
  Type:            REG_SZ
  Data:            {AED5C765-03BA-4c88-8CF2-
B43F71E27074}

Value 5
  Name:            dsv
  Type:            REG_SZ
  Data:            {8CB84D67-9C4B-4233-A1D1-
7D73C557031B}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\DataMiningViewers
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\DataMiningViewers\Mi
crosoft_AssociationRules_Viewer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers.AssociationViewer

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:            Algorithms
  Type:            REG_SZ
  Data:            Microsoft_Association_Rules

Value 3
  Name:            DisplayName
  Type:            REG_SZ
  Data:            Microsoft Association Rules Viewer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\DataMiningViewers\Mi
crosoft_Cluster_Viewer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers.ClusterViewer

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:            Algorithms
  Type:            REG_SZ
  Data:            Microsoft_Clustering

Value 3
  Name:            DisplayName
  Type:            REG_SZ
  Data:            Microsoft Cluster Viewer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\DataMiningViewers\Mi
crosoft_Content_Grid_Viewer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers.ContentGridViewer

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:            Algorithms
  Type:            REG_SZ
  Data:            *

Value 3
  Name:            DisplayName
  Type:            REG_SZ
  Data:            Microsoft Mining Content Viewer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\DataMiningViewers\Mi
crosoft_NaiveBayesian_Viewer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers.NaiveBayesViewer

Value 1
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:            Algorithms
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:             Microsoft_Naive_Bayes

Value 3
  Name:             DisplayName
  Type:             REG_SZ
  Data:             Microsoft Naive Bayes Viewer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\DataMiningViewers\Mi
crosoft_NeuralNetwork_Viewer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers.NeuralNetViewer

Value 1
  Name:             Assembly
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:             Algorithms
  Type:             REG_SZ
  Data:             Microsoft_Neural_Network

Value 3
  Name:             DisplayName
  Type:             REG_SZ
  Data:             Microsoft Neural Network Viewer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\DataMiningViewers\Mi
crosoft_SequenceCluster_Viewer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers.SequenceClusterVie
wer

Value 1
  Name:             Assembly
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:             Algorithms
  Type:             REG_SZ
  Data:             Microsoft_Sequence_Clustering

Value 3
  Name:             DisplayName
  Type:             REG_SZ
  Data:             Microsoft Sequence Cluster Viewer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\DataMiningViewers\Mi
crosoft_TimeSeries_Viewer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers.TimeSeriesViewer

Value 1
  Name:             Assembly
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:             Algorithms
  Type:             REG_SZ
  Data:             Microsoft_Time_Series

Value 3
  Name:             DisplayName
  Type:             REG_SZ
  Data:             Microsoft Time Series Viewer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\DataMiningViewers\Mi
crosoft_Tree_Viewer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers.TreeViewer

Value 1
  Name:             Assembly
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Viewers,
PublicKeyToken=89845dcd8080cc91

Value 2
  Name:             Algorithms
  Type:             REG_SZ
  Data:             Microsoft_Decision_Trees

Value 3
  Name:             DisplayName
  Type:             REG_SZ
  Data:             Microsoft Tree Viewer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\Designers\Wizards
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\Wizards\DefaultNames
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.AnalysisServices.DataSourceView
  Type:             REG_SZ
  Data:             DataSourceView.dsv

Value 1
  Name:
Microsoft.AnalysisServices.DataSource
  Type:             REG_SZ
  Data:             DataSource.dsv

Value 2
  Name:
Microsoft.AnalysisServices.Dimension
  Type:             REG_SZ
  Data:             Dimension.dim

Value 3
  Name:             Microsoft.AnalysisServices.Cube
  Type:             REG_SZ
  Data:             Cube.cube

Value 4
  Name:
Microsoft.AnalysisServices.MiningStructure
  Type:             REG_SZ
  Data:             MiningModel.dmm

Value 5
  Name:             Microsoft.AnalysisServices.Role
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            Role.role

Value 6
  Name:
Microsoft.AnalysisServices.Database
  Type:            REG_SZ
  Data:

Value 7
  Name:
Microsoft.AnalysisServices.Partition
  Type:            REG_SZ
  Data:

Value 8
  Name:
Microsoft.AnalysisServices.Aggregation
  Type:            REG_SZ
  Data:

Value 9
  Name:
Microsoft.AnalysisServices.BusinessIntelligence
  Type:            REG_SZ
  Data:

Value 10
  Name:
Microsoft.AnalysisServices.Wizards.NestedTableForm
  Type:            REG_SZ
  Data:

Value 11
  Name:
Microsoft.AnalysisServices.Wizards.SchemaGeneration
  Type:            REG_SZ
  Data:

Value 12
  Name:
Microsoft.AnalysisServices.Wizards.SchemaGenerationUI
  Type:            REG_SZ
  Data:

Value 13
  Name:
Microsoft.AnalysisServices.Wizards.LinkedObject
  Type:            REG_SZ
  Data:

Value 14
  Name:
Microsoft.AnalysisServices.Wizards.UsageBasedOptimiza
tion
  Type:            REG_SZ
  Data:

Value 15
  Name:
Microsoft.SqlServer.Dts.Runtime.Package
  Type:            REG_SZ
  Data:            Package.dtsx

Value 16
  Name:
Microsoft.SqlServer.Dts.Runtime.Package.Import
  Type:            REG_SZ
  Data:            Package.dtsx

Value 17
  Name:
Microsoft.SqlServer.Dts.Runtime.Package.Migrate
  Type:            REG_SZ
  Data:            Package.dtsx

Value 18
  Name:
Microsoft.SqlServer.Dts.Runtime.Package.Deploy
  Type:            REG_SZ
  Data:            DTSSetup.vdproj

Value 19
  Name:
Microsoft.SqlServer.Dts.Runtime.Configuration
  Type:            REG_SZ
  Data:            DTSConfiguration

Value 20
  Name:
Microsoft.DataTransformationServices.DataFlowUI.SCDWi
zardMetadata
  Type:            REG_SZ
  Data:            DtsLoadDimension


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Designers\Wizards\Mappings
Class Name:      <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.AnalysisServices.DataSourceView
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\DataSourceView.vsz

Value 1
  Name:
Microsoft.AnalysisServices.DataSource
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\DataSource.vsz

Value 2
  Name:
Microsoft.AnalysisServices.Dimension
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\Dimension.vsz

Value 3
  Name:            Microsoft.AnalysisServices.Cube
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\Cube.vsz

Value 4
  Name:
Microsoft.AnalysisServices.MiningStructure
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\MiningModel.vsz

Value 5
  Name:            Microsoft.AnalysisServices.Role
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\Role.vsz

Value 6
  Name:
Microsoft.AnalysisServices.Database
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\DataWarehouse.vsz

Value 7
  Name:
Microsoft.AnalysisServices.Partition
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\Partition.vsz

Value 8
  Name:
Microsoft.AnalysisServices.Aggregation
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\Aggregation.vsz

Value 9
  Name:
Microsoft.AnalysisServices.BusinessIntelligence
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\BusinessIntelligence.vsz

Value 10
  Name:
Microsoft.AnalysisServices.Wizards.NestedTableForm
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\AddNestedTable.vsz

Value 11
  Name:
Microsoft.AnalysisServices.Wizards.SchemaGeneration
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\SchemaGeneration.vsz

Value 12
  Name:
Microsoft.AnalysisServices.Wizards.SchemaGenerationUI
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\SchemaGenerationUI.vsz

Value 13
  Name:
Microsoft.AnalysisServices.Wizards.LinkedObject
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\LinkedObject.vsz

Value 14
  Name:
Microsoft.AnalysisServices.Wizards.UsageBasedOptimiza
tion
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\UsageBasedOptimization.vsz

Value 15
  Name:
Microsoft.SqlServer.Dts.Runtime.Package
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\DtsPackage.vsz

Value 16
  Name:
Microsoft.SqlServer.Dts.Runtime.Package.Import
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\ImportPackage.vsz

Value 17
  Name:
Microsoft.SqlServer.Dts.Runtime.Package.Migrate
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\MigratePackage.vsz

Value 18
  Name:
Microsoft.SqlServer.Dts.Runtime.Package.Deploy
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\DtsDeployment.vsz

Value 19
  Name:
Microsoft.SqlServer.Dts.Runtime.Configuration
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\DtsConfiguration.vsz

Value 20
  Name:
Microsoft.DataTransformationServices.DataFlowUI.SCDWi
zardMetadata
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\DtsLoadDimension.vsz


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\FontsAndColors
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\FontsAndColors\{34F54DB8-
3D69-4d94-ABD5-BA1D717AB8BE}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Category
  Type:            REG_SZ
  Data:            {34F54DB8-3D69-4d94-ABD5-
BA1D717AB8BE}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            #501

Value 2
  Name:            FontFaceName
  Type:            REG_SZ
  Data:            #502

Value 3
  Name:            FontPointSize
  Type:            REG_SZ
  Data:            #503

Value 4
  Name:            Flags
  Type:            REG_DWORD
  Data:            0x2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\FontsAndColors\{34F54DB8-
3D69-4d94-ABD5-BA1D717AB8BE}\Text
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Text

Value 1
  Name:            Index
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Text

Value 3
  Name:            LocalizableName
  Type:            REG_SZ
  Data:            #508

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #509

Value 5
  Name:            Foreground
  Type:            REG_DWORD
  Data:            0x2000000

Value 6
  Name:            Background
  Type:            REG_DWORD
  Data:            0x2000000

Value 7
  Name:            AutoForeground
  Type:            REG_DWORD
  Data:            0

Value 8
  Name:            AutoBackground
  Type:            REG_DWORD
  Data:            0xffffff

Value 9
  Name:            FontFlags
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_DWORD
  Data:            0

Value 10
  Name:            MarkerVisualStyle
  Type:            REG_DWORD
  Data:            0

Value 11
  Name:            LineStyle
  Type:            REG_DWORD
  Data:            0

Value 12
  Name:            Flags
  Type:            REG_DWORD
  Data:            0x3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\FontsAndColors\{45E05167-
BEFE-482d-8B9B-0C329EC847DF}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Category
  Type:            REG_SZ
  Data:            {45E05167-BEFE-482d-8B9B-
0C329EC847DF}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            #70

Value 2
  Name:            FontFaceName
  Type:            REG_SZ
  Data:            #71

Value 3
  Name:            FontPointSize
  Type:            REG_SZ
  Data:            #72

Value 4
  Name:            Flags
  Type:            REG_DWORD
  Data:            0x2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\FontsAndColors\{45E05167-
BEFE-482d-8B9B-0C329EC847DF}\Text
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Text

Value 1
  Name:            Index
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Text

Value 3
  Name:            LocalizableName
  Type:            REG_SZ
  Data:            #80

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #81

Value 5
  Name:            Foreground
  Type:            REG_DWORD
  Data:            0x2000000

Value 6
  Name:            Background
  Type:            REG_DWORD
  Data:            0x2000000

Value 7
  Name:            AutoForeground
  Type:            REG_DWORD
  Data:            0

Value 8
  Name:            AutoBackground
  Type:            REG_DWORD
  Data:            0xffffff

Value 9
  Name:            FontFlags
  Type:            REG_DWORD
  Data:            0

Value 10
  Name:            MarkerVisualStyle
  Type:            REG_DWORD
  Data:            0

Value 11
  Name:            LineStyle
  Type:            REG_DWORD
  Data:            0

Value 12
  Name:            Flags
  Type:            REG_DWORD
  Data:            0x3e


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\General
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\General\Locations
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            LocalInstallationRoot
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 1
  Name:            TemplateInstallationRoot
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\Settings\Serialization
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Serialization\SerializableComp
onents
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            cube
  Type:            REG_SZ
  Data:            Microsoft.AnalysisServices.Cube,
Microsoft.AnalysisServices, Version=9.0.242.0,
Culture=neutral, PublicKeyToken=89845dcd8080cc91

Value 1
  Name:            dim
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Dimension,
Microsoft.AnalysisServices, Version=9.0.242.0,
Culture=neutral, PublicKeyToken=89845dcd8080cc91

Value 2
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            dmm
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.MiningStructure,
Microsoft.AnalysisServices, Version=9.0.242.0,
Culture=neutral, PublicKeyToken=89845dcd8080cc91

Value 3
  Name:            ds
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.DataSource,
Microsoft.AnalysisServices, Version=9.0.242.0,
Culture=neutral, PublicKeyToken=89845dcd8080cc91

Value 4
  Name:            dsv
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.DataSourceView,
Microsoft.AnalysisServices, Version=9.0.242.0,
Culture=neutral, PublicKeyToken=89845dcd8080cc91

Value 5
  Name:            partitions
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.ComponentModel.Par
titionsSet, Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91

Value 6
  Name:            database
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Database,
Microsoft.AnalysisServices, Version=9.0.242.0,
Culture=neutral, PublicKeyToken=89845dcd8080cc91

Value 7
  Name:            role
  Type:            REG_SZ
  Data:            Microsoft.AnalysisServices.Role,
Microsoft.AnalysisServices, Version=9.0.242.0,
Culture=neutral, PublicKeyToken=89845dcd8080cc91

Value 8
  Name:            dtsx
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.Design.Serializa
tion.PseudoPackage,
Microsoft.DataTransformationServices.Design


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-
0aba3a8527f1}\Settings\Serialization\StandAloneDocume
nts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            dtsx
  Type:            REG_SZ
  Data:
Microsoft.DataWarehouse.VsIntegration.Designer.Serial
ization.TextBufferDocumentObject,
Microsoft.DataWarehouse.VsIntegration,
PublicKeyToken=89845dcd8080cc91


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-
abee-0aba3a8527f1}\ToolBox
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Default Items
  Type:            REG_DWORD
  Data:            0x3


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4A791146-19E4-11D3-
B86B-00C04F79F802}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio Help Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4A791146-19E4-11D3-
B86B-00C04F79F802}\Automation
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Help
  Type:            REG_SZ
  Data:

Value 1
  Name:            Help2
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4A791146-19E4-11D3-
B86B-00C04F79F802}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            msenvui.dll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4A9B7E50-AA16-11d0-
A8C5-00A0C921A4D2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio Task List Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{4A9B7E50-AA16-11d0-
A8C5-00A0C921A4D2}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            msenvui.dll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{53544C4D-B03D-4209-
A7D0-D9DD13A4019B}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\VS
SCC\VssProviderStub.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual SourceSafe Provider Stub
Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{53544C4D-B03D-4209-
A7D0-D9DD13A4019B}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\VS SCC\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            VssProviderStubui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{53544C4D-E3F8-4AA0-
8195-8A8D16019423}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio Source Control
Integration Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{53544C4D-E3F8-4AA0-
8195-8A8D16019423}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            msenvui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{588205e0-66e0-11d3-
8600-00c04f6123b3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Compsvc
spkg.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Component Enumerator Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{588205e0-66e0-11d3-
8600-00c04f6123b3}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            compsvcspkgui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{68939055-38e0-4d17-
92cb-8909710d8178}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Windows Forms Designer Hosting
Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.VSDesignPackage

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.Design,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            ID
  Type:            REG_DWORD
  Data:            0x64

Value 5
  Name:            MinEdition
  Type:            REG_SZ
  Data:            Standard

Value 6
  Name:            ProductVersion
  Type:            REG_SZ
  Data:            1.0

Value 7
  Name:            ProductName
  Type:            REG_SZ
  Data:            VSDesignPackage

Value 8
  Name:            CompanyName
  Type:            REG_SZ
  Data:            Microsoft Corporation


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{68939055-38e0-4d17-
92cb-8909710d8178}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.DesignUI.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{68939055-38e0-4d17-
92cb-8909710d8178}\Toolbox
Class Name:        <NO CLASS>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Default Items
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            NeedsCallbackAfterReset
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{6E87CFAD-6C05-4adf-
9CD7-3B7943875B7C}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio Common IDE Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.CommonIDEPackage

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.CommonIDE,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            CodeBase
  Type:            REG_SZ
  Data:            file:///C:\Program Files\Microsoft
SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Microsoft.Vi
sualStudio.CommonIDE.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{6E87CFAD-6C05-4adf-
9CD7-3B7943875B7C}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDEUI.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{7494682b-37a0-11d2-
a273-00c04f8ef4ff}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Windows Forms Designer Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.VSCorePackage

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{7494682b-37a0-11d2-
a273-00c04f8ef4ff}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            Microsoft.VisualStudioUI.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{80c7728b-70a6-4528-
8669-73e02d1b9c41}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            CompanyName
  Type:            REG_SZ
  Data:            Microsoft Corporation

Value 1
  Name:            ProductName
  Type:            REG_SZ
  Data:            DesignerConfigurationPackage

Value 2
  Name:            ProductVersion
  Type:            REG_SZ
  Data:            1.0

Value 3
  Name:            MinEdition
  Type:            REG_SZ
  Data:            Standard

Value 4
  Name:            ID
  Type:            REG_DWORD
  Data:            0x64

Value 5
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Configuration,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 6
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Configuration.DesignerConfigur
ationPackage

Value 7
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 8
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Windows Forms Application
Configuration Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{80c7728b-70a6-4528-
8669-73e02d1b9c41}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.ConfigurationUI.dll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{87569308-4813-40a0-
9cd0-d7a30838ca3f}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio XML Editor Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:            Microsoft.XmlEditor.Package

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.XmlEditor,
Version=2.0.0.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            CodeBase
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Xml\Microsof
t.XmlEditor.dll

Value 5
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 6
  Name:            CompanyName
  Type:            REG_SZ
  Data:            Microsoft Corporation

Value 7
  Name:            ProductName
  Type:            REG_SZ
  Data:            Microsoft XML Editor

Value 8
  Name:            ProductVersion
  Type:            REG_SZ
  Data:            1.0

Value 9
  Name:            MinEdition
  Type:            REG_SZ
  Data:            standard

Value 10
  Name:            ID
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{87569308-4813-40a0-
9cd0-d7a30838ca3f}\Automation
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            XmlProjects
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{87569308-4813-40a0-
9cd0-d7a30838ca3f}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            Microsoft.XmlEditorUI.dll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Xml\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{96B36E93-F71C-4160-
A4EA-26AE801D2F63}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft Data Transformation
Services Designer

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            mscoree.dll

Value 2
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 3
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.VsIntegration.Dt
sPackage

Value 4
  Name:            Assembly
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.VsIntegration

Value 5
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            v1.1.4322

Value 6
  Name:            CompanyName
  Type:            REG_SZ
  Data:            Microsoft

Value 7
  Name:            ProductName
  Type:            REG_SZ
  Data:            Microsoft SQL Server

Value 8
  Name:            ProductVersion
  Type:            REG_SZ
  Data:            9.0

Value 9
  Name:            MinEdition
  Type:            REG_SZ
  Data:            Standard

Value 10
  Name:            ID
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{96B36E93-F71C-4160-
A4EA-26AE801D2F63}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:
Microsoft.DataTransformationServices.VsIntegration.rll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{96B36E93-F71C-4160-
A4EA-26AE801D2F63}\Toolbox
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Default Items
  Type:            REG_DWORD
  Data:            0x3


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{A4B8E50B-6DC3-400d-
97CD-732ADD1F3140}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft SQL Server Object
Explorer

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.SqlServer.Management.UI.VSIntegration.Objec
tExplorer.ObjectExplorerPackage

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            ObjectExplorer,
Version=9.00.242.00, Culture=neutral,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 5
  Name:            CompanyName
  Type:            REG_SZ
  Data:            Microsoft

Value 6
  Name:            ProductName
  Type:            REG_SZ
  Data:            Microsoft SQL Server Object
Explorer

Value 7
  Name:            ProductVersion
  Type:            REG_SZ
  Data:            9.0

Value 8
  Name:            MinEdition
  Type:            REG_SZ
  Data:            professional

Value 9
  Name:            ID
  Type:            REG_DWORD
  Data:            0x1

Value 10
  Name:            Preload
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{A4B8E50B-6DC3-400d-
97CD-732ADD1F3140}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            ObjectExplorer.rll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{AA8EB8CD-7A51-11D0-
92C3-00A0C9138C45}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\VS
SCC\VssProvider.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual SourceSafe Provider Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{AA8EB8CD-7A51-11D0-
92C3-00A0C9138C45}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\VS SCC\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            VssProviderui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{C3507EB2-B615-4870-
BCDB-10990EED0CC4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft SQL Server Management
Studio Project Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.SqlServer.Management.UI.VSIntegration.Proje
ct.SQLWorkbenchProjectPackage

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            SqlWorkbenchProject,
Version=9.00.242.00, Culture=neutral,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both

Value 5
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            CompanyName
  Type:            REG_SZ
  Data:            Microsoft

Value 6
  Name:            ProductName
  Type:            REG_SZ
  Data:            Microsoft SQL Server Management
Studio

Value 7
  Name:            ProductVersion
  Type:            REG_SZ
  Data:            9.0

Value 8
  Name:            MinEdition
  Type:            REG_SZ
  Data:            professional

Value 9
  Name:            ID
  Type:            REG_DWORD
  Data:            0x1

Value 10
  Name:            Preload
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{C3507EB2-B615-4870-
BCDB-10990EED0CC4}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            SqlWorkbenchProject.rll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{C9DD4A57-47FB-11D2-
83E7-00C04F9902C1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio Debugger

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\vsdebug.dll

Value 2
  Name:            Preload
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{C9DD4A57-47FB-11D2-
83E7-00C04F9902C1}\Automation
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Debugger
  Type:            REG_SZ
  Data:            Visual Studio Debugger


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{C9DD4A57-47FB-11D2-
83E7-00C04F9902C1}\AutomationEvents
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DebuggerEvents
  Type:            REG_SZ
  Data:            Visual Studio Debugger Events


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{C9DD4A57-47FB-11D2-
83E7-00C04F9902C1}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            VSDebugUI.dll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Packages\Debugge
r\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{d6c919aa-1217-41e2-
a13b-9b92e1866305}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio Data Designers


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{d6c919aa-1217-41e2-
a13b-9b92e1866305}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            vdt80ui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{DA9FB551-C724-11d0-
AE1F-00A0C90FFFC3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio Environment Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{DA9FB551-C724-11d0-
AE1F-00A0C90FFFC3}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            msenvui.dll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{DA9FB551-C724-11d0-
AE1F-00A0C90FFFC3}\Toolbox
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Formats
  Type:             REG_SZ
  Data:             InPlaceMenuEditorMenu


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{E1AA7737-69BE-43d0-
A425-E3097651E192}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Visual Studio Data Package

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             mscoree.dll

Value 2
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Both

Value 3
  Name:             Assembly
  Type:             REG_SZ
  Data:             Microsoft.VisualStudio.DataTools,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.VisualStudio.DataTools.DataPackage


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{e444c1dd-7c8e-4126-
81c8-392c63bfebe3}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Language Package

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\LanguagePack
age.dll

Value 2
  Name:             CompanyName
  Type:             REG_SZ
  Data:             microsoft corporation

Value 3
  Name:             ProductName
  Type:             REG_SZ
  Data:             language package

Value 4
  Name:             ProductVersion
  Type:             REG_SZ
  Data:             9.0

Value 5
  Name:             MinEdition
  Type:             REG_SZ
  Data:             standard

Value 6
  Name:             Preload
  Type:             REG_DWORD
  Data:             0

Value 7
  Name:             ID
  Type:             REG_DWORD
  Data:             0x65


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{e444c1dd-7c8e-4126-
81c8-392c63bfebe3}\SatelliteDll
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             DllName
  Type:             REG_SZ
  Data:             LanguagePackage.rll

Value 1
  Name:             Path
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{e8b06f41-6d01-11d2-
aa7d-00c04f990343}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Visual Studio Web Browser Package

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{e8b06f41-6d01-11d2-
aa7d-00c04f990343}\SatelliteDll
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             DllName
  Type:             REG_SZ
  Data:             msenvui.dll

Value 1
  Name:             Path
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{EABA99F3-7341-4105-
8A3F-1C4F3955C4FC}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Microsoft Analysis Services
Designer

Value 1
  Name:             InprocServer32
  Type:             REG_SZ
  Data:             mscoree.dll

Value 2
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Both

Value 3
  Name:             Class
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Project.AnalysisServicesPa
ckage

Value 4
  Name:             Assembly
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:
Microsoft.AnalysisServices.Project,
Version=9.00.242.00, Culture=neutral,
PublicKeyToken=89845dcd8080cc91

Value 5
  Name:            RuntimeVersion
  Type:            REG_SZ
  Data:            v1.1.4322

Value 6
  Name:            CompanyName
  Type:            REG_SZ
  Data:            Microsoft Corp

Value 7
  Name:            ProductName
  Type:            REG_SZ
  Data:            Microsoft Analysis Services
Designer

Value 8
  Name:            ProductVersion
  Type:            REG_SZ
  Data:            9.0

Value 9
  Name:            MinEdition
  Type:            REG_SZ
  Data:            Standard

Value 10
  Name:            ID
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{EABA99F3-7341-4105-
8A3F-1C4F3955C4FC}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:
Microsoft.AnalysisServices.Project.rll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{ED8979BC-B02F-4da9-
A667-D3256C36220A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\compluslm.dl
l

Value 1
  Name:            Preload
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio COM+ Library Manager
Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{ED8979BC-B02F-4da9-
A667-D3256C36220A}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            msenvui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{EF828E39-70F5-4b8e-
A3A0-4C0ECD28A69A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio Database Tools
Designers

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vdt80.
dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{EF828E39-70F5-4b8e-
A3A0-4C0ECD28A69A}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            vdt80ui.dll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{F30396AD-50FE-4ae2-
9A98-DC5078302C5E}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft SQL Management Studio
Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.SqlServer.Management.UI.VSIntegration.AppID
Package.AppIDPackage

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            AppIDPackage, Version=9.00.242.00,
Culture=neutral, PublicKeyToken=89845dcd8080cc91

Value 4
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{F30396AD-50FE-4ae2-
9A98-DC5078302C5E}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            AppIDPackage.rll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{F5E7E720-1401-11d1-
883B-0000F87579D2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\msenv.dll

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Text Management Package


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{F5E7E720-1401-11d1-
883B-0000F87579D2}\Automation
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            TextEditor
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{F5E7E720-1401-11d1-
883B-0000F87579D2}\SatelliteDll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\

Value 1
  Name:            DllName
  Type:            REG_SZ
  Data:            msenvui.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{F5E7E720-1401-11d1-
883B-0000F87579D2}\Toolbox
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Formats
  Type:            REG_SZ
  Data:            1,13,16,HTML
Format,MSDEVColumnSelect,MSDEVLineSelect


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Packages\{F74C5077-D848-4630-
80C9-B00E68A1CA0C}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Visual Studio VsSettings Package

Value 1
  Name:            InprocServer32
  Type:            REG_SZ
  Data:            C:\WINDOWS\system32\mscoree.dll

Value 2
  Name:            Class
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.CommonIDE.VsSettings.VsSetting
sPackage

Value 3
  Name:            Assembly
  Type:            REG_SZ
  Data:            Microsoft.VisualStudio.CommonIDE,
Version=8.0.0.0, Culture=Neutral,
PublicKeyToken=b03f5f7f11d50a3a

Value 4
  Name:            CodeBase
  Type:            REG_SZ
  Data:            file:///C:\Program Files\Microsoft
SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Microsoft.Vi
sualStudio.CommonIDE.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Profile
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            AppidSupportsProfiles
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-1C6E970181CC}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            SQL Server CE Project

Value 1
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #14

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {C3507EB2-B615-4870-BCDB-
10990EED0CC4}

Value 3
  Name:            ProjectTemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
Projects

Value 4
  Name:            ItemTemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
ProjectItems

Value 5
  Name:            DisplayProjectFileExtensions
  Type:            REG_SZ
  Data:            #15

Value 6
  Name:            PossibleProjectExtensions
  Type:            REG_SZ
  Data:            ssmsmobileproj

Value 7
  Name:            DefaultProjectExtension
  Type:            REG_SZ
  Data:            .ssmsmobileproj


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-1C6E970181CC}\AddItemTemplates
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-1C6E970181CC}\AddItemTemplates\TemplateDirs
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-
1C6E970181CC}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-
1C6E970181CC}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #18

Value 1
  Name:             TemplatesDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
ProjectItems

Value 2
  Name:             SortPriority
  Type:             REG_DWORD
  Data:             0x64


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-
1C6E970181CC}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1\{C3507EB2-B615-4870-
BCDB-10990EED0CC4}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-
1C6E970181CC}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1\{C3507EB2-B615-4870-
BCDB-10990EED0CC4}\1
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #7

Value 1
  Name:             TemplatesDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
Projects

Value 2
  Name:             SortPriority
  Type:             REG_DWORD
  Data:             0x3e8


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-1C6E970181CC}\Filters
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-1C6E970181CC}\Filters\1
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #16

Value 1
  Name:             CommonOpenFilesFilter
  Type:             REG_DWORD
  Data:             0x1

Value 2
  Name:             CommonFindFilesFilter
  Type:             REG_DWORD
  Data:             0

Value 3
  Name:             NotAddExistingItemFilter
  Type:             REG_DWORD
  Data:             0

Value 4
  Name:             FindInFilesFilter
  Type:             REG_DWORD
  Data:             0

Value 5
  Name:             NotOpenFileFilter
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{1FCC92F3-F470-4421-
9501-1C6E970181CC}\Filters\2
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #17

Value 1
  Name:             CommonOpenFilesFilter
  Type:             REG_DWORD
  Data:             0

Value 2
  Name:             CommonFindFilesFilter
  Type:             REG_DWORD
  Data:             0x1

Value 3
  Name:             NotAddExistingItemFilter
  Type:             REG_DWORD
  Data:             0x1

Value 4
  Name:             FindInFilesFilter
  Type:             REG_DWORD
  Data:             0

Value 5
  Name:             NotOpenFileFilter
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             SQL Server Project

Value 1
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #2

Value 2
  Name:             Package
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            {C3507EB2-B615-4870-BCDB-
10990EED0CC4}

Value 3
  Name:            ProjectTemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
Projects

Value 4
  Name:            ItemTemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
ProjectItems

Value 5
  Name:            DisplayProjectFileExtensions
  Type:            REG_SZ
  Data:            #3

Value 6
  Name:            PossibleProjectExtensions
  Type:            REG_SZ
  Data:            ssmssqlproj

Value 7
  Name:            DefaultProjectExtension
  Type:            REG_SZ
  Data:            .ssmssqlproj


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}\AddItemTemplates
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}\AddItemTemplates\TemplateDirs
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-
9D2138C6997A}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-
9D2138C6997A}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #6

Value 1
  Name:            TemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
ProjectItems

Value 2
  Name:            SortPriority
  Type:            REG_DWORD
  Data:            0x64


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-
9D2138C6997A}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1\{C3507EB2-B615-4870-
BCDB-10990EED0CC4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-
9D2138C6997A}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1\{C3507EB2-B615-4870-
BCDB-10990EED0CC4}\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #7

Value 1
  Name:            TemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
Projects

Value 2
  Name:            SortPriority
  Type:            REG_DWORD
  Data:            0x3e8


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}\Filters
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}\Filters\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #4

Value 1
  Name:            CommonOpenFilesFilter
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            CommonFindFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            NotAddExistingItemFilter
  Type:            REG_DWORD
  Data:            0

Value 4
  Name:            FindInFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotOpenFileFilter
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}\Filters\2
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #5

Value 1
  Name:            CommonOpenFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            CommonFindFilesFilter
  Type:            REG_DWORD
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            0x1

Value 3
  Name:            NotAddExistingItemFilter
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            FindInFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotOpenFileFilter
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}\Filters\3
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #19

Value 1
  Name:            CommonOpenFilesFilter
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            CommonFindFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            NotAddExistingItemFilter
  Type:            REG_DWORD
  Data:            0

Value 4
  Name:            FindInFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotOpenFileFilter
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}\Filters\4
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #20

Value 1
  Name:            CommonOpenFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            CommonFindFilesFilter
  Type:            REG_DWORD
  Data:            0x1

Value 3
  Name:            NotAddExistingItemFilter
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            FindInFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotOpenFileFilter
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}\Filters\5
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #21

Value 1
  Name:            CommonOpenFilesFilter
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            CommonFindFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            NotAddExistingItemFilter
  Type:            REG_DWORD
  Data:            0

Value 4
  Name:            FindInFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotOpenFileFilter
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{4F2E2C19-372F-40d8-
9FA7-9D2138C6997A}\Filters\6
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #22

Value 1
  Name:            CommonOpenFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            CommonFindFilesFilter
  Type:            REG_DWORD
  Data:            0x1

Value 3
  Name:            NotAddExistingItemFilter
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            FindInFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotOpenFileFilter
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-959ECE458279}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Analysis Server Project

Value 1
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #9

Value 2
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            Package
  Type:            REG_SZ
  Data:            {C3507EB2-B615-4870-BCDB-
10990EED0CC4}

Value 3
  Name:            ProjectTemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
Projects

Value 4
  Name:            ItemTemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
ProjectItems

Value 5
  Name:            DisplayProjectFileExtensions
  Type:            REG_SZ
  Data:            #10

Value 6
  Name:            PossibleProjectExtensions
  Type:            REG_SZ
  Data:            ssmsasproj

Value 7
  Name:            DefaultProjectExtension
  Type:            REG_SZ
  Data:            .ssmsasproj


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-959ECE458279}\AddItemTemplates
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-959ECE458279}\AddItemTemplates\TemplateDirs
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-
959ECE458279}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-
959ECE458279}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #13

Value 1
  Name:            TemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
ProjectItems

Value 2
  Name:            SortPriority
  Type:            REG_DWORD
  Data:            0x64


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-
959ECE458279}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1\{C3507EB2-B615-4870-
BCDB-10990EED0CC4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-
959ECE458279}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1\{C3507EB2-B615-4870-
BCDB-10990EED0CC4}\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #7

Value 1
  Name:            TemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
Projects

Value 2
  Name:            SortPriority
  Type:            REG_DWORD
  Data:            0x3e8


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-959ECE458279}\Filters
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-959ECE458279}\Filters\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #11

Value 1
  Name:            CommonOpenFilesFilter
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            CommonFindFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            NotAddExistingItemFilter
  Type:            REG_DWORD
  Data:            0

Value 4
  Name:            FindInFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotOpenFileFilter
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{54D695D8-3FC1-47a3-
8D60-959ECE458279}\Filters\2
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #12

Value 1
  Name:            CommonOpenFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 2
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            CommonFindFilesFilter
  Type:            REG_DWORD
  Data:            0x1

Value 3
  Name:            NotAddExistingItemFilter
  Type:            REG_DWORD
  Data:            0x1

Value 4
  Name:            FindInFilesFilter
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            NotOpenFileFilter
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{A2FE74E1-B743-11d0-
AE1A-00A0C90FFFC3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Miscellaneous Files Project

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Language(VSTemplate)
  Type:            REG_SZ
  Data:            General


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{A2FE74E1-B743-11d0-
AE1A-00A0C90FFFC3}\AddItemTemplates
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{A2FE74E1-B743-11d0-
AE1A-00A0C90FFFC3}\AddItemTemplates\TemplateDirs
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{A2FE74E1-B743-11d0-
AE1A-
00A0C90FFFC3}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{A2FE74E1-B743-11d0-
AE1A-
00A0C90FFFC3}\AddItemTemplates\TemplateDirs\{C3507EB2
-B615-4870-BCDB-10990EED0CC4}\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #8

Value 1
  Name:            TemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\SQLWorkbench
NewItems

Value 2
  Name:            SortPriority
  Type:            REG_DWORD
  Data:            0x64


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{d183a3d8-5fd8-494b-
b014-37f57b35e655}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Data Transformations Project

Value 1
  Name:            DefaultProjectExtension
  Type:            REG_SZ
  Data:            .dtproj

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            Data Transformations Project

Value 3
  Name:            ItemTemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\DataTransformationProject

Value 4
  Name:            Package
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 5
  Name:            PossibleProjectExtensions
  Type:            REG_SZ
  Data:            dtproj

Value 6
  Name:            ProjectTemplatesDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence Projects


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{d183a3d8-5fd8-494b-
b014-37f57b35e655}\AddItemTemplates
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{d183a3d8-5fd8-494b-
b014-37f57b35e655}\AddItemTemplates\TemplateDirs
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{d183a3d8-5fd8-494b-
b014-
37f57b35e655}\AddItemTemplates\TemplateDirs\{4a0c6509
-bf90-43da-abee-0aba3a8527f1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Projects\{d183a3d8-5fd8-494b-
b014-
37f57b35e655}\AddItemTemplates\TemplateDirs\{4a0c6509
-bf90-43da-abee-0aba3a8527f1}\1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Data Transformations Project

Value 1
  Name:            SortPriority
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            TemplatesDir
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ProjectItems
\DataTransformationProject


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{053a8de0-5a5e-362f-
8f1a-0fbfd70f8b36}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {68939055-38e0-4d17-92cb-
8909710d8178}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IDesignerOptionService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{06a9c74b-5e32-4561-
be73-381b37869f4f}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {7494682b-37a0-11d2-a273-
00c04f8ef4ff}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IUIService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{06D0BE35-FA3A-4ef6-
81B9-3EDBB68EF982}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E1AA7737-69BE-43d0-A425-
E3097651E192}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            ODBC Provider Object Factory


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{0A72ADF4-A4A2-449a-
B771-4C4332053602}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {96B36E93-F71C-4160-A4EA-
26AE801D2F63}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IDbmaintDesignerService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{0C0CD5F0-0744-4bc7-
B800-553CABE7C6DA}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IDesignerDebuggingService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{0c539790-12e4-11cf-
b661-00aa004cd6d8}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F30396AD-50FE-4ae2-9A98-
DC5078302C5E}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SApplicationObject Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{0D93BB4F-4FBC-49ee-
BF10-A0AB762B866E}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E444C1DD-7C8E-4126-81C8-
392C63BFEBE3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SQL CE Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{12B43F9F-8550-4FFA-
850F-FE9D4D396C20}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {282BD676-8B5B-11D0-8A34-
00A0C91E2ACD}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Structured File I/O Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{13F6A341-59C0-11D3-
994C-00C04F68FDAF}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Register Language Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{1989FCAD-FEDB-4c03-
B71C-9B59E51F6A36}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {A4B8E50B-6DC3-400d-97CD-
732ADD1F3140}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Object Explorer Notification
Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{1AC64571-85CF-4234-
AA00-B57E907E326A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11D3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SID_SVsThreadedWaitDialog


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{1F2EEAC2-DCF7-4B90-
9412-2CE752DE5FEB}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {220A4C17-7E7C-4663-BBCC-
5E607C6543CD}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Query Designer font and colors
provider


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{218D0424-9C53-4EA1-
A679-A0AED59B0E4F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {282BD676-8B5B-11D0-8A34-
00A0C91E2ACD}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            HTML Converter


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{26E139FB-2DD3-49c1-
BE58-3F8DA45DBA3A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {A4B8E50B-6DC3-400d-97CD-
732ADD1F3140}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Object Explorer Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{26EB4812-18FE-4A11-
BC23-7DC1C9B453A3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            Web Config Runtime Bindings
Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {588205e0-66e0-11d3-8600-
00c04f6123b3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{2B3B3A2D-4E79-11d3-
9477-00C04F683646}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {282BD676-8B5B-11D0-8A34-
00A0C91E2ACD}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Group Selection Dialog


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{2D6FF84D-C3F6-48a0-
9C7B-96F4958E92E8}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E444C1DD-7C8E-4126-81C8-
392C63BFEBE3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            MDX Language Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{31411192-a502-11d2-
bbca-00c04f8ec294}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SHxSession Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{31411218-a502-11d2-
bbca-00c04f8ec294}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11D3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SHxRegisterSession


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{33a24090-6565-11d3-
85fc-00c04f6123b3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            SID_SCompEnumService

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {588205e0-66e0-11d3-8600-
00c04f6123b3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{39fd482d-c76c-4dd4-
9e06-fb7c52f69c8a}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {68939055-38e0-4d17-92cb-
8909710d8178}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            GlobalObjectProviderFactory


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{3B0749FF-31E8-42d8-
9CD2-F612148D7BDC}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F74C5077-D848-4630-80C9-
B00E68A1CA0C}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsProfilesManagerUI


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{3B70A4AE-BB91-4ABE-
A05C-C4DE07B9763E}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Debugger Window Font and Color
Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{41AB5AA8-2511-4e96-
A682-C30B0292C2EF}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {EF828E39-70F5-4b8e-A3A0-
4C0ECD28A69A}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Data Tools Document Tool Factory
Provider


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{41F80783-4646-441e-
989E-7B127EE6F544}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {6E87CFAD-6C05-4adf-9CD7-
3B7943875B7C}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsOnlineHelpData service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{44B05627-95C2-4CE8-
BDCD-4AA722785093}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Debugger Marker Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4970C2BC-AF33-4a73-
A34F-18B0584C40E4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {0B680757-2C29-4531-80FA-
535A5178AA98}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Expansion Manager


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4A0C6509-BF90-43da-
ABEE-0ABA3A8527F1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Datawarehouse Designer font and
colors provider


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4A3116FC-942B-4692-
B9F4-344E08285712}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            App Config Runtime Bindings
Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {588205e0-66e0-11d3-8600-
00c04f6123b3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4A647EAE-7167-4a0a-
9B0E-0B6F34D61E61}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {6E87CFAD-6C05-4adf-9CD7-
3B7943875B7C}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsSearchService service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4A791148-19E4-11d3-
B86B-00C04F79F802}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsHelp Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4A81432B-BFCC-4832-
9BE9-15977DA82072}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {6E87CFAD-6C05-4adf-9CD7-
3B7943875B7C}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsHelpFavorites service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4bacd258-de64-4048-
bc4e-fedbef9acb76}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {7494682b-37a0-11d2-a273-
00c04f8ef4ff}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IToolboxService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4C9ADEBE-CD38-4647-
A9D8-D326CB1B683F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {6E87CFAD-6C05-4adf-9CD7-
3B7943875B7C}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsHelpPage service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4E2E2126-C921-43a1-
86F0-81B6B30ABC95}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IErrorReportingService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{4FEDAA4F-7C4E-4d4e-
AC6B-86F03BB7D200}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsHelpFirstTimeDialog Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{52F0DAB8-99A9-4aea-
A037-42581B7009D2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            SID_SVsSmartOpenScope

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {588205e0-66e0-11d3-8600-
00c04f6123b3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{52F7BAC0-B47E-4d28-
83F7-B38C9A8AB52B}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IUserPromptService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-0079-44FE-
826C-1B04B9E1598D}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            Dont Show Dialog Again Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-B03D-4209-A7D0-
D9DD13A4019B}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-0308-11D1-
8D97-00AA00A3F593}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            Enlistment Manager Proxy Lookup
Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {AA8EB8CD-7A51-11D0-92C3-
00A0C9138C45}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-0DCD-4242-
8CCB-3F1EADE6F489}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            VS External Dialog Munger Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-B03D-4209-A7D0-
D9DD13A4019B}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-104B-4D82-
AD93-074816C1A0E5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            SCC Tools Options Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-E3F8-4AA0-8195-
8A8D16019423}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-1639-11D3-
A60D-005004775AB1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            TrackProjectDocuments Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-E3F8-4AA0-8195-
8A8D16019423}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-1927-4320-
B9DA-13D2CB3EA93B}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            SVsSccManager Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-E3F8-4AA0-8195-
8A8D16019423}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-1984-11D3-
A606-005004775AB1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            QueryEditQuerySave Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-E3F8-4AA0-8195-
8A8D16019423}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-35D0-4D26-
9789-9295A73E7A10}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            Private SccManager Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {AA8EB8CD-7A51-11D0-92C3-
00A0C9138C45}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-A32A-4EAf-
A920-38799C8F27B8}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            SourceControl Automation Object
Factory

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-E3F8-4AA0-8195-
8A8D16019423}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-B03D-4209-
A7D0-D9DD13A4019B}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            Microsoft Scc Providers Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-B03D-4209-A7D0-
D9DD13A4019B}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{53544C4D-C1F3-4fa8-
BEA7-EA1A8FECFDD9}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            Visual Studio Register Source
Control Integration Provider Service

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-E3F8-4AA0-8195-
8A8D16019423}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{599BCD9E-CAFA-43DF-
AA03-129C0004C2BD}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A9B7E50-AA16-11d0-A8C5-
00A0C921A4D2}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Error list


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{59ec0b12-b6e0-4ccb-
9e1a-d54362316bc1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            ISettingsService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{5e819c22-a727-11d2-
aa82-00c04f990343}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {e8b06f41-6d01-11d2-aa7d-
00c04f990343}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsShellContext Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{62E4D05A-8BB5-4926-
AE03-70AC65E38D7A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11D3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsHelpBackgroundService service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{654C847E-E6ED-4217-
9ABF-A6208631F73F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E1AA7737-69BE-43d0-A425-
E3097651E192}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            DataConnectionFactory service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{67287D05-E699-48f2-
A1B5-5437C0CA4BDB}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IDWDesignerService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{676037E3-04BA-4324-
A2A5-D4508F61A706}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {6E87CFAD-6C05-4adf-9CD7-
3B7943875B7C}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SVsHelpOnlineF1Service service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{699D5E17-9B22-466b-
ACFA-2E12CD64E249}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            SID_SVsComplusLibrary

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {ED8979BC-B02F-4da9-A667-
D3256C36220A}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{69BD65B1-1C44-49c6-
B83A-FB0353334545}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E1AA7737-69BE-43d0-A425-
E3097651E192}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            DataSourceManager service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{74946810-37a0-11d2-
a273-00c04f8ef4ff}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {7494682b-37a0-11d2-a273-
00c04f8ef4ff}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IVSMDPropertyBrowser


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{74946829-37a0-11d2-
a273-00c04f8ef4ff}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {68939055-38e0-4d17-92cb-
8909710d8178}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IVSMDDesignerService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{75058B12-F5A9-4B1C-
9161-9B3754D7488F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            ENCStale Language Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{785633AC-9EE9-4e28-
A7E8-3089D7C23217}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IDataSourceDescriptorService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{79eac9ee-baf9-11ce-
8c82-00aa004ba90b}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {e8b06f41-6d01-11d2-aa7d-
00c04f990343}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            SInternetSecurityManager


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{7d960b16-7af8-11d0-
8e5e-00a0c911005a}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IVsDebugger


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{80273892-C4C7-451d-
AB6B-B9A6DA2128A5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IDWProjectManagerService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8394d9e8-d8fb-39b7-
a160-4c0dbe16e6fc}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {68939055-38e0-4d17-92cb-
8909710d8178}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            DesignerOptionService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{854d7ac0-bc3d-11d0-
b421-00a0c90f9dc4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            IVsHelpSystem Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{865F23D2-C266-4833-
96E8-F5B01476E018}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {EF828E39-70F5-4b8e-A3A0-
4C0ECD28A69A}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Data Tools Query Proxy Automation
Factory


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8CB5F787-2D74-459e-
88D6-39E20A4D9454}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E1AA7737-69BE-43d0-A425-
E3097651E192}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            OLE DB Provider Object Factory


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            SID_SVsSQLCLRReferences
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {588205e0-66e0-11d3-8600-
00c04f6123b3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET References
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET
References\CustomMarshalers.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            CustomMarshalers


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET
References\Microsoft.VisualBasic.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft.VisualBasic


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET
References\Microsoft.VisualC.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft.VisualC


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET References\mscorlib.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            mscorlib


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET
References\System.Data.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            System.Data


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET
References\System.Data.OracleClient.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            System.Data.OracleClient


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET
References\System.Data.SqlXml.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            System.Data.SqlXml


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET References\System.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            System


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET
References\System.Security.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            System.Security


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET
References\System.Transactions.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            System.Transactions


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET
References\System.Web.Services.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            System.Web.Services


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{8ED9966C-102F-45b0-
8293-BB9F2463A6F2}\SQL .NET References\System.Xml.dll
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            system.xml


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{910E8282-F867-11d0-
AB36-00A0C90F2713}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {282BD676-8B5B-11D0-8A34-
00A0C91E2ACD}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Solution Debugging Assistant
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{93E969D6-1AA0-455F-
B208-6ED3C82B5C58}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {282BD676-8B5B-11D0-8A34-
00A0C91E2ACD}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Solution Build Manager


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{9513E7A0-CFB7-4424-
BB7D-16DE3B6820B3}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             IDataConnectionsService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{961afe89-0cc9-3dba-
983f-e1416e158b08}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {68939055-38e0-4d17-92cb-
8909710d8178}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             DesignSurfaceManager


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{96B36E93-F71C-4160-
A4EA-26AE801D2F63}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {96B36E93-F71C-4160-A4EA-
26AE801D2F63}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             DTS Fonts And Colors Provider


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{97128F7E-2F73-47b1-
B244-82653ADD59B5}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SVsContextWindowHelpService
Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{97BAE668-2CF2-4ed8-
A019-D279E3D74C80}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Name
  Type:             REG_SZ
  Data:             SID_SVsStrongNameKeys

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {588205e0-66e0-11d3-8600-
00c04f6123b3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{9C1B8A40-7C24-11d3-
8E6E-005004775AC2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Name
  Type:             REG_SZ
  Data:             Team Dialog Controls GUIDs

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {AA8EB8CD-7A51-11D0-92C3-
00A0C9138C45}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{9D21BCC5-2C63-4A61-
B055-2F3DF78EB30A}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A9B7E50-AA16-11d0-A8C5-
00A0C921A4D2}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Task list


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{9EAD5E55-B4C2-4d9f-
A5E7-24CD72F9B2AC}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E444C1DD-7C8E-4126-81C8-
392C63BFEBE3}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SQL Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{9EC9BA55-B328-11d2-
9A98-00C04F79EFC3}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {e8b06f41-6d01-11d2-aa7d-
00c04f990343}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SVsWebPreview Service
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{A179EC84-21B0-4923-
B1CF-7032F2AD72FA}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SQL Marker Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{A3F718DE-392A-4f2d-
AA6E-7E858D08D6FD}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             IGlobalWindowEventsService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{A47EE51D-0283-4AEA-
9301-92F62C69028F}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {220A4C17-7E7C-4663-BBCC-
5E607C6543CD}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             DBToolsOptionProvider


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{A60FCE08-2F9C-4676-
86F0-BCD4973FC702}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {6E87CFAD-6C05-4adf-9CD7-
3B7943875B7C}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SVsStartPageDownload


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{ADF95D98-9094-4B7B-
874A-D94844D05DCE}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {220A4C17-7E7C-4663-BBCC-
5E607C6543CD}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Database Designer font and colors
provider


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{B1AABE06-845A-4c56-
9144-AA6FDB7D390D}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E444C1DD-7C8E-4126-81C8-
392C63BFEBE3}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             XMLA Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{B24BFD35-8C30-4b21-
A5B7-EBD09845BEAB}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             IDesignerToolWindowService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{BCD55999-B818-4240-
9528-3D96274477C9}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E1AA7737-69BE-43d0-A425-
E3097651E192}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             DataProviderManager service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{BD71396F-39C6-4e3f-
BBA2-79CE33A8B302}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Name
  Type:             REG_SZ
  Data:             SID_SVsAddWebReferenceDlg

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {588205e0-66e0-11d3-8600-
00c04f6123b3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{C16FB7C4-9F84-11D2-
8405-00C04F9902C1}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Disassembly Language Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Server\90\Tools\Shell\Services\{CA8A686A-0882-4e79-
BCA3-AF3F3AB3EB8A}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Integrated Help Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{D670F37D-D5A2-4c50-
93D6-87E6B1B22DA0}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {96B36E93-F71C-4160-A4EA-
26AE801D2F63}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             IDtsDesignerService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{D77E81FC-873E-4283-
A0F8-CF1CCE8CC42B}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E1AA7737-69BE-43d0-A425-
E3097651E192}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             DataConnectionDialogFactory
service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{DF38847E-CC19-11D2-
8ADA-00C04F79E479}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Memory Language Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{E351DF41-0679-4731-
A36D-9F61612E1C00}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             IEnvironmentService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{e50c8d58-3c49-301c-
a498-c1b81c69a0f0}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {7494682b-37a0-11d2-a273-
00c04f8ef4ff}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             IComponentDiscoveryService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{E663F492-4589-4f60-
9CA5-022E59FA635B}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {EF828E39-70F5-4b8e-A3A0-
4C0ECD28A69A}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SQL Server Assembly support


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{E7A0D4E0-D0E4-4afa-
A8A1-DD4636073D98}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E1AA7737-69BE-43d0-A425-
E3097651E192}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             DataConnectionManager service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{e8b06f3d-6d01-11d2-
aa7d-00c04f990343}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {e8b06f41-6d01-11d2-aa7d-
00c04f990343}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SVsWebURLMRU Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{e8b06f51-6d01-11d2-
aa7d-00c04f990343}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {e8b06f41-6d01-11d2-aa7d-
00c04f990343}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SVsWebBrowsingService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{ED8979BC-B02F-4da9-
A667-D3256C36220A}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Name
  Type:             REG_SZ
  Data:             CLSID_ComplusLibraryManagerPkg

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {ED8979BC-B02F-4da9-A667-
D3256C36220A}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{ef902d46-ace1-3668-
adff-b323562e22f9}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {68939055-38e0-4d17-92cb-
8909710d8178}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             IDesignerEventService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{F1F2A506-C37B-475c-
9712-415F656649E0}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {220A4C17-7E7C-4663-BBCC-
5E607C6543CD}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Data Tool Sql Editor Class


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{F5E7E71D-1401-11d1-
883B-0000F87579D2}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F5E7E720-1401-11d1-883B-
0000F87579D2}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{F638BEE1-DC22-4401-
8A4A-6DB0B13C196C}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E1AA7737-69BE-43d0-A425-
E3097651E192}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Oracle Provider Object Factory


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{F65478CC-96F1-4BA9-
9EF9-A575ACB96031}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {1D76B2E0-F11B-11d2-AFC3-
00105A9991EF}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{f6819a78-a205-47b5-
be1c-675b3c7f0b8e}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {87569308-4813-40a0-9cd0-
d7a30838ca3f}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             XML Language Service


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{fc43bf19-86fe-4255-
901e-15c8d236f3a4}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {68939055-38e0-4d17-92cb-
8909710d8178}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             DynamicTypeService


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Services\{FCD3F3E8-69AC-42d5-
905E-2E131905E708}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E1AA7737-69BE-43d0-A425-
E3097651E192}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SQL Server Provider Object Factory


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Setup
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Setup\CSharpDW
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             ProductDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\CSharp\CSharpDWWizards\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Setup\JSharpDW
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             ProductDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\JSharp\JSharpDWWizards\
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Setup\VBDW
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             ProductDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence Wizards\LanguageProjects\VB\VBDWWizards\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Setup\VS
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             ProductDir
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SetupTest
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             AnalysisServicesOnline
  Type:             REG_DWORD
  Data:             0x1

Value 1
  Name:             DataTransformationServicesOnline
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ShellFileAssociations
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ShellFileAssociations\.config
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
%PROGID_APPIDNAME%.config.%PROGID_VERSION%


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ShellFileAssociations\.dtd
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
%PROGID_APPIDNAME%.dtd.%PROGID_VERSION%


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ShellFileAssociations\.snippet
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
%PROGID_APPIDNAME%.snippet.%PROGID_VERSION%


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ShellFileAssociations\.vspscc
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
%PROGID_APPIDNAME%.vspscc.%PROGID_VERSION%


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ShellFileAssociations\.vsscc
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
%PROGID_APPIDNAME%.vsscc.%PROGID_VERSION%


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ShellFileAssociations\.vssscc
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
%PROGID_APPIDNAME%.vssscc.%PROGID_VERSION%


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ShellFileAssociations\.xdr
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
%PROGID_APPIDNAME%.xdr.%PROGID_VERSION%


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ShellFileAssociations\.xslt
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:
%PROGID_APPIDNAME%.xslt.%PROGID_VERSION%


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\AggregateGu
ids
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\DevStudioPr
ojDeps
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\Extensibili
tyAddIns
Class Name:         <NO CLASS>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\Extensibili
tyGlobals
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\FolderGloba
ls
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\FolderStart
upServices
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\NestedProje
cts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\ProjectConf
iguration
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\ProjectConf
igurationPlatforms
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\ProjectDepe
ndencies
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\SolutionCon
figuration
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\SolutionCon
figurationPlatforms
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\SolutionIte
ms
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\SolutionPro
perties
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SolutionPersistence\SourceCodeC
ontrol
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {AA8EB8CD-7A51-11D0-92C3-
00A0C9138C45}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SourceControlProviders
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {53544C4D-FFD5-48A9-B04A-
0700CCD31070}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SourceControlProviders\{53544C4
D-FFD5-48A9-B04A-0700CCD31070}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 0
  Name:            Service
  Type:            REG_SZ
  Data:            {53544C4D-B03D-4209-A7D0-
D9DD13A4019B}

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Microsoft MSSCCI Support Provider


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SourceControlProviders\{53544C4
D-FFD5-48A9-B04A-0700CCD31070}\Name
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {53544C4D-B03D-4209-A7D0-
D9DD13A4019B}

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #101


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SourceControlProviders\{53544C4
D-FFD5-48A9-B04A-0700CCD31070}\Packages
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            MainPackage
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\VS
SCC\VssProvider.dll

Value 1
  Name:            StubPackage
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\VS
SCC\VssProviderStub.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\SplashInfo
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:23 PM
Value 0
  Name:            SplashInfo
  Type:            REG_BINARY
  Data:
```

```
00000000  55 00 6e 00 6b 00 6e 00 - 6f 00 77 00 6e
00 20 00  U.n.k.n.o.w.n. .
00000010  55 00 73 00 65 00 72 00 - 20 00 4e 00 61
00 6d 00  U.s.e.r. .N.a.m.
00000020  65 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  e..............
00000030  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000040  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000050  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000060  00 00 00 00 00 00 00 00 - 00 00 48 00 50
00 00 00  ..........H.P...
00000070  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000080  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000090  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000000a0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000000b0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000000c0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000000d0  00 00 00 00 54 00 68 00 - 69 00 73 00 20
00 70 00  ....T.h.i.s. .p.
000000e0  72 00 6f 00 64 00 75 00 - 63 00 74 00 20
00 69 00  r.o.d.u.c.t. .i.
000000f0  73 00 20 00 6c 00 69 00 - 63 00 65 00 6e
00 73 00  s. .l.i.c.e.n.s.
00000100  65 00 64 00 20 00 74 00 - 6f 00 3a 00 00
00 00 00  e.d. .t.o.:.....
00000110  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000120  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000130  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000140  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000150  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000160  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000170  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000180  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000190  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000001a0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000001b0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000001c0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000001d0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
```

```
000001e0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000001f0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000200  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000210  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000220  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000230  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000240  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000250  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000260  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000270  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000280  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000290  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000002a0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000002b0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000002c0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000002d0  00 00 00 00 28 00 63 00 - 29 00 20 00 32
00 30 00  ....(.c.). .2.0.
000002e0  30 00 35 00 20 00 4d 00 - 69 00 63 00 72
00 6f 00  0.5. .M.i.c.r.o.
000002f0  73 00 6f 00 66 00 74 00 - 20 00 43 00 6f
00 72 00  s.o.f.t. .C.o.r.
00000300  70 00 6f 00 72 00 61 00 - 74 00 69 00 6f
00 6e 00  p.o.r.a.t.i.o.n.
00000310  2e 00 0a 00 41 00 6c 00 - 6c 00 20 00 72
00 69 00  ....A.l.l. .r.i.
00000320  67 00 68 00 74 00 73 00 - 20 00 72 00 65
00 73 00  g.h.t.s. .r.e.s.
00000330  65 00 72 00 76 00 65 00 - 64 00 2e 00 00
00 00 00  e.r.v.e.d.......
00000340  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000350  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000360  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000370  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000380  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000390  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000003a0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
000003b0  00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
000003c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000003d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000003e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000003f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000400   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000410   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000420   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000430   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000440   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000450   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000460   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000470   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000480   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000490   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000004a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000004b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000004c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000004d0   00 00 00 00 4d 00 65 00 - 6d 00 62 00 65
00 72 00  ....M.e.m.b.e.r.
000004e0   20 00 6f 00 66 00 00 00 - 00 00 00 00 00 00
00 00 00   .o.f...........
000004f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000500   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000510   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000520   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000530   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000540   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000550   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000560   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000570   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000580   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000590   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000005a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000005b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000005c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000005d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000005e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000005f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000600   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000610   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000620   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000630   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000640   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000650   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000660   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000670   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000680   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000690   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000006a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000006b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000006c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000006d0   00 00 00 00 4d 00 69 00 - 63 00 72 00 6f
00 73 00  ....M.i.c.r.o.s.
000006e0   6f 00 66 00 74 00 20 00 - 53 00 51 00 4c
00 20 00  o.f.t. .S.Q.L. .
000006f0   53 00 65 00 72 00 76 00 - 65 00 72 00 20
00 4d 00  S.e.r.v.e.r. .M.
00000700   61 00 6e 00 61 00 67 00 - 65 00 6d 00 65
00 6e 00  a.n.a.g.e.m.e.n.
00000710   74 00 20 00 53 00 74 00 - 75 00 64 00 69
00 6f 00  t. .S.t.u.d.i.o.
00000720   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000730   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000740   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000750   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000760   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000770   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000780   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000790   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000007a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000007b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000007c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000007d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000007e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000007f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000800   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000810   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000820   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000830   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000840   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000850   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000860   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000870   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000880   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00000890   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000008a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000008b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000008c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000008d0   00 00 00 00 54 00 68 00 - 69 00 73 00 20
00 70 00  ....T.h.i.s. .p.
000008e0   72 00 6f 00 67 00 72 00 - 61 00 6d 00 20
00 69 00  r.o.g.r.a.m. .i.
000008f0   73 00 20 00 70 00 72 00 - 6f 00 74 00 65
00 63 00  s. .p.r.o.t.e.c.
00000900   74 00 65 00 64 00 20 00 - 62 00 79 00 20
00 55 00  t.e.d. .b.y. .U.
00000910   2e 00 53 00 2e 00 20 00 - 61 00 6e 00 64
00 20 00  ..S... .a.n.d. .
00000920   49 00 6e 00 74 00 65 00 - 72 00 6e 00 61
00 74 00  I.n.t.e.r.n.a.t.
00000930   69 00 6f 00 6e 00 61 00 - 6c 00 00 00 00
00 00 00  i.o.n.a.l.......
00000940   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00000950   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
00000960   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000970   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000980   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000990   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000009a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000009b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000009c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000009d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000009e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000009f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a00   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a10   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a20   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a30   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a40   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a50   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a60   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a70   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a80   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000a90   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000aa0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000ab0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000ac0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000ad0   00 00 00 00 63 00 6f 00 - 70 00 79 00 72
00 69 00  ....c.o.p.y.r.i.
00000ae0   67 00 68 00 74 00 20 00 - 6c 00 61 00 77
00 73 00  g.h.t. .l.a.w.s.
00000af0   20 00 61 00 73 00 20 00 - 64 00 65 00 73
00 63 00   .a.s. .d.e.s.c.
00000b00   72 00 69 00 62 00 65 00 - 64 00 20 00 69
00 6e 00  r.i.b.e.d. .i.n.
00000b10   20 00 48 00 65 00 6c 00 - 70 00 2f 00 41
00 62 00   .H.e.l.p./.A.b.
00000b20   6f 00 75 00 74 00 2e 00 - 00 00 00 00 00
00 00 00  o.u.t..........
00000b30   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
```

```
00000b40   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000b50   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000b60   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000b70   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000b80   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000b90   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000ba0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000bb0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000bc0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000bd0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000be0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000bf0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c00   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c10   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c20   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c30   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c40   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c50   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c60   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c70   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c80   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000c90   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000ca0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000cb0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000cc0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000cd0   00 00 00 00 53 00 74 00 - 61 00 6e 00 64
00 61 00  ....S.t.a.n.d.a.
00000ce0   72 00 64 00 00 00 00 00 - 00 00 00 00 00
00 00 00  r.d............
00000cf0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000d00   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000d10   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
```

```
00000d20   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000d30   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000d40   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000d50   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000d60   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000d70   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000d80   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000d90   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000da0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000db0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000dc0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000dd0   00 00 00 00 50 00 72 00 - 6f 00 66 00 65
00 73 00  ....P.r.o.f.e.s.
00000de0   73 00 69 00 6f 00 6e 00 - 61 00 6c 00 00
00 00 00  s.i.o.n.a.l.....
00000df0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e00   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e10   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e20   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e30   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e40   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e50   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e60   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e70   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e80   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000e90   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000ea0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000eb0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000ec0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ................
00000ed0   00 00 00 00 45 00 6e 00 - 74 00 65 00 72
00 70 00  ....E.n.t.e.r.p.
00000ee0   72 00 69 00 73 00 65 00 - 20 00 44 00 65
00 76 00  r.i.s.e. .D.e.v.
00000ef0   65 00 6c 00 6f 00 70 00 - 65 00 72 00 00
00 00 00  e.l.o.p.e.r.....
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
00000f00   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000f10   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000f20   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000f30   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000f40   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000f50   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000f60   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000f70   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000f80   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000f90   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000fa0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000fb0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000fc0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00000fd0   00 00 00 00 45 00 6e 00 - 74 00 65 00 72
00 70 00  ....E.n.t.e.r.p.
00000fe0   72 00 69 00 73 00 65 00 - 20 00 41 00 72
00 63 00  r.i.s.e. .A.r.c.
00000ff0   68 00 69 00 74 00 65 00 - 63 00 74 00 00
00 00 00  h.i.t.e.c.t.....
00001000   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001010   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001020   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001030   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001040   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001050   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001060   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001070   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001080   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001090   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000010a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000010b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000010c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000010d0   00 00 00 00 46 00 6f 00 - 72 00 20 00 45
00 76 00  ....F.o.r. .E.v.
000010e0   61 00 6c 00 75 00 61 00 - 74 00 69 00 6f
00 6e 00  a.l.u.a.t.i.o.n.
000010f0   20 00 4f 00 6e 00 6c 00 - 79 00 00 00 00
00 00 00   .O.n.l.y.......
00001100   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001110   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001120   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001130   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001140   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001150   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001160   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001170   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001180   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001190   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000011a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000011b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000011c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000011d0   00 00 00 00 41 00 63 00 - 61 00 64 00 65
00 6d 00  ....A.c.a.d.e.m.
000011e0   69 00 63 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  i.c.............
000011f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001200   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001210   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001220   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001230   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001240   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001250   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001260   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001270   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001280   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001290   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000012a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000012b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000012c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000012d0   00 00 00 00 56 00 53 00 - 49 00 50 00 20
00 4c 00  ....V.S.I.P. .L.
000012e0   69 00 63 00 65 00 6e 00 - 73 00 65 00 20
00 52 00  i.c.e.n.s.e. .R.
000012f0   65 00 71 00 75 00 69 00 - 72 00 65 00 64
00 00 00  e.q.u.i.r.e.d...
00001300   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001310   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001320   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001330   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001340   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001350   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001360   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001370   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001380   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001390   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000013a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000013b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000013c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000013d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000013e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
000013f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001400   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001410   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001420   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001430   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001440   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001450   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001460   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001470   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001480   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001490   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
000014a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000014b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000014c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000014d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000014e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000014f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001500   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001510   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001520   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001530   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001540   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001550   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001560   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001570   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001580   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001590   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000015a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000015b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000015c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000015d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000015e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000015f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001600   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001610   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001620   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001630   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001640   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001650   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001660   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001670   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001680   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001690   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000016a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000016b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000016c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000016d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000016e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000016f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001700   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001710   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001720   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001730   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001740   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001750   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001760   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001770   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001780   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001790   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000017a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000017b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000017c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000017d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000017e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
000017f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001800   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001810   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001820   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001830   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001840   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001850   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ..............
00001860   00 00 00 00 00 00 00 00 - 08 00 01 00 54
00 61 00  ............T.a.
00001870   68 00 6f 00 6d 00 61 00 - 00 00 00 00 00
00 00 00  h.o.m.a.........
00001880   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001890   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
000018a0   00 00 00 00 00 00 00 00 - 00 00 00 00 49
00 6e 00  ............I.n.
000018b0   73 00 74 00 61 00 6c 00 - 6c 00 65 00 64
00 20 00  s.t.a.l.l.e.d. .
000018c0   50 00 72 00 6f 00 64 00 - 75 00 63 00 74
00 73 00  P.r.o.d.u.c.t.s.
000018d0   3a 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  :..............
000018e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
000018f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001900   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001910   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001920   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001930   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001940   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001950   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001960   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001970   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001980   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001990   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
000019a0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
000019b0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
000019c0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
000019d0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
000019e0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
000019f0   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001a00   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001a10   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001a20   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
00001a30   00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00  ..............
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
00001a40   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001a50   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001a60   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001a70   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001a80   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001a90   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001aa0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001ab0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001ac0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001ad0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001ae0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001af0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b00   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b10   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b20   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b30   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b40   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b50   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b60   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b70   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b80   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001b90   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001ba0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001bb0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001bc0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001bd0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001be0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001bf0   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c00   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c10   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c20   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c30   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c40   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c50   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c60   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c70   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c80   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00001c90   00 00 00 00 00 00 00 00 - 00 00 00 00 00 00
00 00 00  ................
00 00 00 00 00 00 00 00 - 00 00 00 00
............
```

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External Markers
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{030EF597-983E-4DC8-BFE2-A57508256636}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Tracepoint Mapped Enabled
Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #271

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}
```

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{095C01F2-B8AB-4FBB-9404-6EFCD125E4F8}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Tracepoint Disabled
Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #248

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{1915461E-0F61-44C5-8F2C-9CE3CA05B2C1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Tracepoint Mapped Error
Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #272

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{1B7D8015-15FF-4EC9-9C8C-5B83499C8468}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Breakpoint Advanced
Disabled Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #263

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{1E36D6FC-803F-4FD3-BD00-435A4EEF8911}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Breakpoint Advanced
Enabled Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #255

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{1F66BCD8-0239-4A9B-A3F9-F51321D3368C}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Tracepoint Error Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #249

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{2138B8A9-9D8F-4073-90AC-88678AC755A5}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Tracepoint Mapped Warning
Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #273

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{237C7135-D8A7-48C4-832C-DF1FB8CEFD0E}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Tracepoint Advanced
Disabled Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #266

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{2DAA2998-36A1-4B85-B8E9-4CDA438DDF8C}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Tracepoint Advanced
Warning Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #269

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Server\90\Tools\Shell\Text Editor\External
Markers\{2FA576FC-EA49-49B0-93D6-85133168BA82}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Tracepoint Mapped
Disabled Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #270

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{37469172-F83A-4BFA-864B-6900D34EA6F0}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Tracepoint Enabled Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #247

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{387D9BB6-2845-46f3-AC93-55EDC2DE7282}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Template Parameter

Value 1
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #1001

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 3
  Name:             Service
  Type:             REG_SZ
  Data:             {A179EC84-21B0-4923-B1CF-
7032F2AD72FA}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{3DDBBA3A-4C4A-493B-BAD1-70E2B47B421C}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Breakpoint Advanced
Warning Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #265

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{454B4B0E-829F-4e1a-9BB9-118AEF41F8D6}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Error Message

Value 1
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #1000

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 3
  Name:             Service
  Type:             REG_SZ
  Data:             {A179EC84-21B0-4923-B1CF-
7032F2AD72FA}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{546FAD73-6000-4138-BA73-9B4746C38324}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             Debugger Breakpoint Mapped Warning
Marker

Value 1
  Name:             Service
  Type:             REG_SZ
  Data:             {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             #251

Value 3
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{554B4B0E-829F-4e1a-9BB9-118AEF41F8D6}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41C7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Service
  Type:            REG_SZ
  Data:            {A179EC84-21B0-4923-B1CF-
7032F2AD72FA}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{59E4355F-5663-45B8-B4F3-51ED22561DED}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Breakpoint Mapped
Disabled Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #201

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{61DF72D6-D8F7-472E-A78D-4DDF06ED7391}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Breakpoint Mapped Error
Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #253

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{69DA1285-D454-4DA1-AB7A-1039C71F3F80}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Breakpoint Advanced Error
Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #264

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{6D799B25-7F32-4173-A4EB-521827D4AE4F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Current Statement Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #199

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{7E2ED083-0516-4366-A84E-3FECB4369799}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Breakpoint Disabled
Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #195

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{9D00A12E-9336-4585-A4A6-27B87383312D}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Breakpoint Error Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #196

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{9E96A88C-A98E-4711-B610-F2783EEFD731}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Tracepoint Advanced Error
Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #268

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{A5998F84-BB45-4885-B552-0A9A6D98BE26}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Breakpoint Warning Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #197

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{C362E2C6-C242-425D-95D4-9A52B27096A8}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Breakpoint Enabled Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #194

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{CCB8B9D5-1643-4B41-8395-53C5B5ED5284}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Call Return Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #198

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{E3AA0043-8E3E-4441-BDC5-79F72387E807}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Tracepoint Advanced
Enabled Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #267

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{E52A924F-0A81-4CE0-B5A2-C4BAE0BF29E3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Breakpoint Mapped Enabled
Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #200

Value 3
  Name:            Package
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\Text Editor\External
Markers\{F7218A30-4648-4994-8A38-2FAF8A992E4F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            Debugger Tracepoint Warning Marker

Value 1
  Name:            Service
  Type:            REG_SZ
  Data:            {44B05627-95C2-4CE8-BDCD-
4AA722785093}

Value 2
  Name:            DisplayName
  Type:            REG_SZ
  Data:            #250

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolboxPages
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolboxPages\Maintenance Tasks
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #155

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {3B0C23E7-FCFB-4aa3-9457-
FABE6CC9A493}

Value 3
  Name:            Type
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.VsIntegration.Db
MaintToolboxPage,
Microsoft.DataTransformationServices.VsIntegration

Value 4
  Name:            PageName
  Type:            REG_SZ
  Data:            Maintenance Tasks


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolboxPages\Microsoft.VisualSt
udio.Toolbox.VsToolboxPage
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #1002

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {7494682b-37a0-11d2-a273-
00c04f8ef4ff}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {74946839-37a0-11d2-a273-
00c04f8ef4ff}

Value 3
  Name:            DefaultTbx
  Type:            REG_DWORD
  Data:            0xa

Value 4
  Name:            HelpKeyword
  Type:            REG_SZ
  Data:            frameworkcomponents


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolboxPages\Microsoft.VisualSt
udio.Toolbox.VsToolboxPage\VisibilityCmdUIContexts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            SQL_Tools90
  Type:            REG_SZ
  Data:            0

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsDefaults
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsDefaults\WebBrowser
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            ExtEditor
  Type:            REG_SZ
  Data:            %SYSTEMROOT%\system32\notepad.exe

Value 1
  Name:            Flags
  Type:            REG_DWORD
  Data:            0x13

Value 2
  Name:            HomePage
  Type:            REG_SZ
  Data:
http://go.microsoft.com/fwlink/?linkid=32722

Value 3
  Name:            SearchPage
  Type:            REG_SZ
  Data:
http://go.microsoft.com/fwlink/?linkid=32722


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Business
Intelligence Designers
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #601

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Server\90\Tools\Shell\ToolsOptionsPages\Business
Intelligence Designers\Data Transformation Designers
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #612

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Business
Intelligence Designers\Data Transformation
Designers\Auto Connect
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #632

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {9AB657DD-C512-48e1-A79D-
BF1F128F1A70}

Value 3
  Name:             Type
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.Design.VsOptionP
ages.AutomaticConnectOptionPage,
Microsoft.DataTransformationServices.Design,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:             PageName
  Type:             REG_SZ
  Data:             Auto Connect


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Business
Intelligence Designers\Data Transformation
Designers\General
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #631

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {87AF0C16-B4CE-474d-9D38-
3CC1DA78D560}

Value 3
  Name:             Type
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.Design.VsOptionP
ages.DTSSigningOptionPage,
Microsoft.DataTransformationServices.Design,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:             PageName
  Type:             REG_SZ
  Data:             General


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Business
Intelligence Designers\Data Transformation
Designers\Pipeline Auto Connect
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #633

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {68867E08-D302-46da-BD12-
528F0319EE3F}

Value 3
  Name:             Type
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.Design.VsOptionP
ages.PipelineAutomaticConnectOptionPage,
Microsoft.DataTransformationServices.Design,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:             PageName
  Type:             REG_SZ
  Data:             Pipeline Auto Connect


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Business
Intelligence Designers\VisibilityCmdUIContexts
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             SQL_Tools90
  Type:             REG_SZ
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Sort
  Type:             REG_DWORD
  Data:             0x3c

Value 1
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #5000

Value 2
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger\ENC
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #5003

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {6C3ECAA6-3EFB-4B0D-9660-
2A3BA5B8440E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger\ENC\
VisibilityCmdUIContexts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {0E67F38A-CADD-4FE1-8E77-
E94B1DF90D1B}
  Type:            REG_SZ
  Data:            1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger\Gene
ral
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #5001

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {FA9EB535-C624-13D0-AE1F-
00A0190FF4C3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger\JIT
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #5036

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {B9EFCAF2-9EAE-4022-9E39-
FA947666ADD9}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger\JIT\
VisibilityCmdUIContexts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {CA99BB24-1434-44AD-8BF7-
E50615989FB3}
  Type:            REG_SZ
  Data:            1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger\Nati
ve
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #5004

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {3E08D829-6989-45C3-97DA-
F8BF3C49AEAB}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger\Nati
ve\VisibilityCmdUIContexts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {8E1E81E7-55B6-4488-97B3-
813FD261C719}
  Type:            REG_SZ
  Data:            1

Value 1
  Name:            {3B476D35-A401-11D2-AAD4-
00C04F990171}
  Type:            REG_SZ
  Data:            1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger\Symb
ols
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #5051

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {1F5E080F-CBD2-459C-8267-
39FD83032166}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Debugger\Visi
bilityCmdUIContexts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {338492A6-3F51-407C-8DE5-
D25445BFFCDD}
  Type:            REG_SZ
  Data:            1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Designers
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 1
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3122

Value 2
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x32
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Designers\Ana
lysis Services Designers
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #611

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Designers\Ana
lysis Services Designers\Data Mining Viewers
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #622

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {462AD575-2E26-49ec-9883-
58FA0B9FFCFB}

Value 3
  Name:             Type
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Project.Design.DataMiningV
iewersOptionPage, Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:             PageName
  Type:             REG_SZ
  Data:             Data Mining Viewers


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Designers\Ana
lysis Services Designers\General
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #621

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {F7FD30E6-BC59-411e-A889-
878D33644B54}

Value 3
  Name:             Type
  Type:             REG_SZ
  Data:
Microsoft.AnalysisServices.Project.Design.ReducedData
WarehouseOptionPage,
Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:             PageName
  Type:             REG_SZ
  Data:             General


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Designers\Mai
ntenancePlans
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #154

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {9AB657DD-C512-48e1-A79D-
BF1F128F1A70}

Value 3
  Name:             Type
  Type:             REG_SZ
  Data:
Microsoft.DataTransformationServices.Design.VsOptionP
ages.AutomaticConnectOptionPage,
Microsoft.DataTransformationServices.Design,
PublicKeyToken=89845dcd8080cc91

Value 4
  Name:             PageName
  Type:             REG_SZ
  Data:             Auto Connect

Value 5
  Name:             Sort
  Type:             REG_DWORD
  Data:             0x14


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Designers\Tab
le Designer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #6227

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {220A4C17-7E7C-4663-BBCC-
5E607C6543CD}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {89e05c19-4303-4204-9b99-
3f7650da8714}

Value 3
  Name:             Sort
  Type:             REG_DWORD
  Data:             0xa


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Environment
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #13569

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:             Sort
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Environment\F
onts And Colors
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14104

Value 1
  Name:            Page
  Type:            REG_SZ
  Data:            {57F6B7D2-1436-11d1-883C-
0000F87579D2}

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 3
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x14


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Environment\H
elp
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #1007

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Environment\H
elp\General
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #1004

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {73F6DD5C-437E-11d3-B88E-
00C04F79F802}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Environment\H
elp\Online
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #1005

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {9284AE5A-6D41-47bc-AB90-
42550A0C6C40}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Environment\S
QLEnvironmentKeyboard
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3121

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {3D23B42C-CB9F-40c9-8A90-
F2FA32226EED}

Value 3
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x1e


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Environment\S
QLEnvironmentOptions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3113

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {FDBFA9E2-F401-4324-9C52-
342E87B42A28}

Value 3
  Name:            Sort
  Type:            REG_DWORD
  Data:            0xa


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryExecutio
n
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3120

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x1e


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Server\90\Tools\Shell\ToolsOptionsPages\QueryExecutio
n\AnalysisServer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #3118

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:             Sort
  Type:             REG_DWORD
  Data:             0x2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryExecutio
n\AnalysisServer\AnalysisServicesExecutionGeneral
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #3116

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {746D01A9-A817-4b21-865F-
F98964C908AF}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryExecutio
n\SqlServer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #3117

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:             Sort
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryExecutio
n\SqlServer\SqlExecutionAdvanced
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #3101

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {0404C455-C6D6-4639-AE00-
2F451AECCF1E}

Value 3
  Name:             Sort
  Type:             REG_DWORD
  Data:             0x2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryExecutio
n\SqlServer\SqlExecutionAnsi
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #3104

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {00E240FD-6BDD-49cc-9086-
51FC23E8E8EA}

Value 3
  Name:             Sort
  Type:             REG_DWORD
  Data:             0x3


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryExecutio
n\SqlServer\SqlExecutionGeneral
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #3102

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:             Page
  Type:             REG_SZ
  Data:             {DCA3AAC5-0AB0-425b-9047-
BA60CB152E5A}

Value 3
  Name:             Sort
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryResults
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             #3119

Value 1
  Name:             Package
  Type:             REG_SZ
  Data:             {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:             Sort
  Type:             REG_DWORD
  Data:             0x28


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryResults\
AnalysisServer
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3118

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryResults\
AnalysisServer\AnalysisServicesResulstsGeneral
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3116

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {8F93B1F7-FE0C-4dea-9B6A-
A2A03E8AB41D}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryResults\
SqlServer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3117

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryResults\
SqlServer\SQLResultsGeneral
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3116

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {04D7F91F-3BAD-4499-A338-
154D17DA9828}

Value 3
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryResults\
SqlServer\SQLResultsToGrid
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3111

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {88F58CDF-51E0-413b-B479-
D4445D2BFAB7}

Value 3
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\QueryResults\
SqlServer\SQLResultsToText
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3112

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4058755A-8FBE-41c7-BC99-
3DBF5C74BA62}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {3A746056-82B8-4930-88E5-
70A10C797481}

Value 3
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x3


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Source
Control
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {53544C4D-E3F8-4AA0-8195-
8A8D16019423}

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #5005


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Source
Control\Environment
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Sort
  Type:            REG_DWORD
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            0x1

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {AA8EB8CD-7A51-11D0-92C3-
00A0C9138C45}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {9C1B8A62-7C24-11d3-8E6E-
005004775AC2}

Value 3
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #510


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Source
Control\Environment\VisibilityCmdUIContexts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {53544C4D-FFD5-48A9-B04A-
0700CCD31070}
  Type:            REG_SZ
  Data:            1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Source
Control\General
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Package
  Type:            REG_SZ
  Data:            {53544C4D-E3F8-4AA0-8195-
8A8D16019423}

Value 1
  Name:            Page
  Type:            REG_SZ
  Data:            {53544C4D-1D2D-44bd-8566-
4FC149E23AAF}

Value 2
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #5006


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Source
Control\Visual SourceSafe
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x2

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {AA8EB8CD-7A51-11D0-92C3-
00A0C9138C45}

Value 2
  Name:            Page
  Type:            REG_SZ
  Data:            {9C1B8A63-7C24-11d3-8E6E-
005004775AC2}

Value 3
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #511


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Source
Control\Visual SourceSafe\VisibilityCmdUIContexts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {53544C4D-FFD5-48A9-B04A-
0700CCD31070}
  Type:            REG_SZ
  Data:            1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Text Editor
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #13022

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 2
  Name:            Sort
  Type:            REG_DWORD
  Data:            0x14


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolsOptionsPages\Text
Editor\File Extension
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14645

Value 1
  Name:            Page
  Type:            REG_SZ
  Data:            {AC11E8EB-15F8-432F-B13F-
4AB8F56DA235}

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 3
  Name:            Sort
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{0504FF91-9D61-
11D0-A794-00A0C9110051}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Call Stack


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{0504FF91-9D61-
11D0-A794-00A0C9110051}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{0AAE2B49-9969-
4e8f-88B6-4A43D4478548}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F30396AD-50FE-4ae2-9A98-
DC5078302C5E}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Summary

Value 2
  Name:            Float
  Type:            REG_SZ
  Data:            10,10,500,500

Value 3
  Name:            Orientation
  Type:            REG_SZ
  Data:            Right

Value 4
  Name:            Style
  Type:            REG_SZ
  Data:            MDI


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{0F887920-C2B6-
11d2-9375-0080C747D9A0}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Find 1

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            Float

Value 3
  Name:            Window
  Type:            REG_SZ
  Data:            {0F887920-C2B6-11d2-9375-
0080C747D9A0}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{0F887921-C2B6-
11d2-9375-0080C747D9A0}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Find 2

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            Float

Value 3
  Name:            Window
  Type:            REG_SZ
  Data:            {0F887920-C2B6-11d2-9375-
0080C747D9A0}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{25f7e850-ffa1-
11d0-b63f-00a0c922e851}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {21af45b0-ffa5-11d0-b63f-
00a0c922e851}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{269A02DC-6AF8-
11D3-BDC4-00C04F688E50}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Object Browser


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{28836128-FC2C-
11D2-A433-00C04F72D18A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Command window


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{2D7728C2-DE0A-
45b5-99AA-89B609DFDE73}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Resource view


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{34E76E81-EE4A-
11D0-AE2E-00A0C90FFFC3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Output window
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{350F9856-A72B-
11D2-8AD0-00C04F79E479}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Memory


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{350F9856-A72B-
11D2-8AD0-00C04F79E479}\Visibility
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{37ABA9BE-445A-
11D3-9949-00C04F68FD0A}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Modules


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{37ABA9BE-445A-
11D3-9949-00C04F68FD0A}\Visibility
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{387cb18d-6153-
4156-9257-9ac3f9207bbe}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Start Page

Value 2
  Name:             Style
  Type:             REG_SZ
  Data:             MDI

Value 3
  Name:             Float
  Type:             REG_SZ
  Data:             200, 200, 600, 500

Value 4
  Name:             Orientation
  Type:             REG_SZ
  Data:             B


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{38F39CDA-18C2-
421b-A178-51A670CD472E}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Mining Legend

Value 2
  Name:             Style
  Type:             REG_SZ
  Data:             Tabbed

Value 3
  Name:             Float
  Type:             REG_SZ
  Data:             400,300,800,600

Value 4
  Name:             Orientation
  Type:             REG_SZ
  Data:             Bottom

Value 5
  Name:             Window
  Type:             REG_SZ
  Data:             {eefa5220-e298-11d0-8f78-
00a0c9110057}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{3AE79031-E1BC-
11D0-8F78-00A0C9110057}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Solution Explorer


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{3F0D873B-DC33-
4200-BCB2-A8CE5264F4B1}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Mining Legend

Value 2
  Name:             Style
  Type:             REG_SZ
  Data:             Tabbed

Value 3
  Name:             Float
  Type:             REG_SZ
  Data:             400,300,800,600

Value 4
  Name:             Orientation
  Type:             REG_SZ
  Data:             Bottom
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 5
  Name:            Window
  Type:            REG_SZ
  Data:            {eefa5220-e298-11d0-8f78-
00a0c9110057}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{46C87F81-5A06-
43a8-9E25-85D33BAC49F8}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Help Search


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{4A18F9D0-B838-
11D0-93EB-00A0C90F2734}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Locals


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{4A18F9D0-B838-
11D0-93EB-00A0C90F2734}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{4A791147-19E4-
11D3-B86B-00C04F79F802}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Table of contents


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{4A9B7E51-AA16-
11D0-A8C5-00A0C921A4D2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A9B7E50-AA16-11D0-A8C5-
00A0C921A4D2}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{51C76317-9037-
4CF2-A20A-6206FD30B4A1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Processes


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{51C76317-9037-
4CF2-A20A-6206FD30B4A1}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{53024D34-0EF5-
11d3-87E0-00C04F7971A5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Find symbol window

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            Float

Value 3
  Name:            Window
  Type:            REG_SZ
  Data:            {E830EC50-C2B5-11d2-9375-
0080C747D9A0}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{53544C4D-5C18-
11d3-AB71-0050040AE094}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Window
  Type:            REG_SZ
  Data:            {34E76E81-EE4A-11D0-AE2E-
00A0C90FFFC3}

Value 1
  Name:            Float
  Type:            REG_SZ
  Data:            100,100,450,300

Value 2
  Name:            Orientation
  Type:            REG_SZ
  Data:            Bottom

Value 3
  Name:            Style
  Type:            REG_SZ
  Data:            Tabbed

Value 4
  Name:            Name
  Type:            REG_SZ
  Data:            LocalChanges

Value 5
  Name:            <NO NAME>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            {AA8EB8CD-7A51-11D0-92C3-
00A0C9138C45}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{5415EA3A-D813-
4948-B51E-562082CE0887}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Float
  Type:            REG_SZ
  Data:            100,100,450,300

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Call Browser

Value 3
  Name:            Orientation
  Type:            REG_SZ
  Data:            Left

Value 4
  Name:            Style
  Type:            REG_SZ
  Data:            Tabbed

Value 5
  Name:            Window
  Type:            REG_SZ
  Data:            {34E76E81-EE4A-11D0-AE2E-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{562A81AF-9A3C-
4719-9900-0E1DE79ED292}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Mining Legend

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            Tabbed

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            400,300,800,600

Value 4
  Name:            Orientation
  Type:            REG_SZ
  Data:            Bottom

Value 5
  Name:            Window
  Type:            REG_SZ
  Data:            {eefa5220-e298-11d0-8f78-
00a0c9110057}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{57DC5D59-11C2-
4955-A7B4-D7699D677E93}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Help Favorites


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{587B69DC-A87E-
42b6-B92A-714016B29C6D}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {96B36E93-F71C-4160-A4EA-
26AE801D2F63}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            #90

Value 2
  Name:            Float
  Type:            REG_SZ
  Data:            100,100,450,300

Value 3
  Name:            Orientation
  Type:            REG_SZ
  Data:            Left

Value 4
  Name:            Style
  Type:            REG_SZ
  Data:            Tabbed

Value 5
  Name:            Window
  Type:            REG_SZ
  Data:            {B1E99781-AB81-11D0-B683-
00AA00A3EE26}

Value 6
  Name:            ToolWindowFactory
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.Design.VariableT
oolWindowFactory,
Microsoft.DataTransformationServices.Design


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{587B69DC-A87E-
42b6-B92A-714016B2FAFA}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {96B36E93-F71C-4160-A4EA-
26AE801D2F63}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            #121

Value 2
  Name:            Float
  Type:            REG_SZ
  Data:            100,100,450,300

Value 3
  Name:            Orientation
  Type:            REG_SZ
  Data:            Left

Value 4
  Name:            Style
  Type:            REG_SZ
  Data:            Tabbed

Value 5
  Name:            Window
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {B1E99781-AB81-11D0-B683-
00AA00A3EE26}

Value 6
  Name:            ToolWindowFactory
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.Design.LogToolWi
ndowFactory,
Microsoft.DataTransformationServices.Design


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{588470CC-84F8-
4a57-9AC4-86BCA0625FF4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Code Definition Window

Value 2
  Name:            Orientation
  Type:            REG_SZ
  Data:            Left

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100,100,450,300

Value 4
  Name:            Style
  Type:            REG_SZ
  Data:            Tabbed

Value 5
  Name:            Window
  Type:            REG_SZ
  Data:            {34E76E81-EE4A-11D0-AE2E-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{5AA3576A-9A4C-
4bfe-BA07-6D149737FD9B}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Explore Data

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{66dba47c-61df-
11d2-aa79-00c04f990343}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {e8b06f41-6d01-11d2-aa7d-
00c04f990343}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Dynamic Help


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{68487888-204A-
11d3-87EB-00C04F7971A5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Find symbol results window

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            Float

Value 3
  Name:            Window
  Type:            REG_SZ
  Data:            {0F887920-C2B6-11d2-9375-
0080C747D9A0}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{68D103B9-5B90-
4cd5-9DC8-CB64359B1FC2}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Data Visualizer

Value 2
  Name:            ToolWindowFactory
  Type:            REG_SZ
  Data:
Microsoft.DataTransformationServices.Design.Controls.
VisualizerHostControlFactory,
Microsoft.DataTransformationServices.Design


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{68D103B9-5B90-
4cd5-9DC8-CB64359B1FC2}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{6AF300FE-3221-
4cea-973F-78FE829EB940}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Explore Data

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI

Value 3
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            Float
  Type:            REG_SZ
  Data:            100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{6B8E94B5-0949-
4d9c-A81F-C1B9B744185C}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Property Manager


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{6D52CEE1-A15C-
42fd-8D30-FAACC8D1DD02}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Explore Data

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{73F6DD58-437E-
11d3-B88E-00C04F79F802}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Help index


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{73F6DD5B-437E-
11d3-B88E-00C04F79F802}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A791146-19E4-11d3-B86B-
00C04F79F802}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Help Index Results


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{74946810-37a0-
11d2-a273-00c04f8ef4ff}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {7494682b-37a0-11d2-a273-
00c04f8ef4ff}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Designer.Interfaces.IVSMDPrope
rtyBrowser


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{8186008D-937F-
47b9-AA24-73A410B59D9F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Explore Data

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{8CC2D4DE-B9AA-
4310-B76A-30EF60D1525D}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {A4B8E50B-6DC3-400d-97CD-
732ADD1F3140}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Current Activity

Value 2
  Name:            Float
  Type:            REG_SZ
  Data:            10,10,500,500

Value 3
  Name:            Orientation
  Type:            REG_SZ
  Data:            right

Value 4
  Name:            Style
  Type:            REG_SZ
  Data:            MDI


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{90243340-BD7A-
11D0-93EF-00A0C90F2734}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            Watch


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{90243340-BD7A-
11D0-93EF-00A0C90F2734}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{95E98DB2-9966-
4171-8A11-B63A6781980D}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Explore Data

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{996EBCCF-146A-
4491-8C2F-26A604113C2C}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4a0c6509-bf90-43da-abee-
0aba3a8527f1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Data Transformation Services
Progress Window


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{9E715445-7840-
4ecb-8EBB-AF46087E976A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Mining Legend

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            Tabbed

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            400,300,800,600

Value 4
  Name:            Orientation
  Type:            REG_SZ
  Data:            Bottom

Value 5
  Name:            Window
  Type:            REG_SZ
  Data:            {eefa5220-e298-11d0-8f78-
00a0c9110057}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{A0C5197D-0AC7-
4B63-97CD-8872A789D233}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Bookmarks

Value 2
  Name:            Orientation
  Type:            REG_SZ
  Data:            Left

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100,100,450,300

Value 4
  Name:            Style
  Type:            REG_SZ
  Data:            Tabbed

Value 5
  Name:            Window
  Type:            REG_SZ
  Data:            {34E76E81-EE4A-11D0-AE2E-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{B1E99781-AB81-
11D0-B683-00AA00A3EE26}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Toolbox


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{B900BE87-629A-
4b6b-8443-0EA2BD2C25A3}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Explore Data

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{BE4D7042-BA3F-
11D2-840E-00C04F9902C1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Breakpoints


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{BE4D7042-BA3F-
11D2-840E-00C04F9902C1}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {F1536EF8-92EC-443C-9ED7-
FDADF150DA82}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{C32474AA-3924-
438c-B540-F2C0ECA23B71}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Explore Data

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{C609F647-F1B1-
4bbc-92D0-04EDF0BC6FCF}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {A4B8E50B-6DC3-400d-97CD-
732ADD1F3140}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Registered Serversr

Value 2
  Name:            Float
  Type:            REG_SZ
  Data:            10,10,300,600

Value 3
  Name:            Orientation
  Type:            REG_SZ
  Data:            Left

Value 4
  Name:            Style
  Type:            REG_SZ
  Data:            Tabbed


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{C9C0AE26-AA77-
11d2-B3F0-0000F87570EE}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Class view


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{CA4B8FF5-BFC7-
11D2-9929-00C04F68FDAF}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Registers


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{CA4B8FF5-BFC7-
11D2-9929-00C04F68FDAF}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{CF2DDC32-8CAD-
11d2-9302-005345000000}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            FindReplace


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{CF577B8C-4134-
11D2-83E5-00C04F9902C1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Disassembly
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{CF577B8C-4134-
11D2-83E5-00C04F9902C1}\Visibility
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{D114938F-591C-
46cf-A785-500A82D97410}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {A4B8E50B-6DC3-400d-97CD-
732ADD1F3140}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Sql Object Explorer

Value 2
  Name:             Float
  Type:             REG_SZ
  Data:             10,10,300,600

Value 3
  Name:             Orientation
  Type:             REG_SZ
  Data:             Left

Value 4
  Name:             Style
  Type:             REG_SZ
  Data:             Tabbed


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{D6C02B84-73BF-
440a-9E64-46A976FC4D04}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Drill Through

Value 2
  Name:             Style
  Type:             REG_SZ
  Data:             Float

Value 3
  Name:             Float
  Type:             REG_SZ
  Data:             400,300,800,600


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{D78612C7-9962-
4B83-95D9-268046DAD23A}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A9B7E50-AA16-11D0-A8C5-
00A0C921A4D2}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Error List

Value 2
  Name:             Float
  Type:             REG_SZ
  Data:             100,100,300,400

Value 3
  Name:             Orientation
  Type:             REG_SZ
  Data:             Left

Value 4
  Name:             Style
  Type:             REG_SZ
  Data:             Tabbed

Value 5
  Name:             Window
  Type:             REG_SZ
  Data:             {34E76E81-EE4A-11D0-AE2E-
00A0C90FFFC3}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{DBE1F45C-8C9E-
4895-A674-C59BDBB89795}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Explore Data

Value 2
  Name:             Style
  Type:             REG_SZ
  Data:             MDI

Value 3
  Name:             Float
  Type:             REG_SZ
  Data:             100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{DE669173-599C-
43a3-BA18-D5277742F28E}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             Explore Data

Value 2
  Name:             Style
  Type:             REG_SZ
  Data:             MDI

Value 3
  Name:             Float
  Type:             REG_SZ
  Data:             100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{DFD4FBD3-E1F8-
4706-A53C-7AD6C3388867}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {4A0C6509-BF90-43da-ABEE-
0ABA3A8527F1}

Value 1
  Name:             Name
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            Explore Data

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100,500,200,400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{E01A3358-4577-
42a1-A4A2-4667F21E1C72}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F30396AD-50FE-4ae2-9A98-
DC5078302C5E}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Template Browser


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{E62CE6A0-B439-
11D0-A79D-00A0C9110051}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Threads


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{E62CE6A0-B439-
11D0-A79D-00A0C9110051}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{E830EC50-C2B5-
11d2-9375-0080C747D9A0}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Find in Files

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            Float

Value 3
  Name:            Window
  Type:            REG_SZ
  Data:            {E830EC50-C2B5-11d2-9375-
0080C747D9A0}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{e8b06f52-6d01-
11d2-aa7d-00c04f990343}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {e8b06f41-6d01-11d2-aa7d-
00c04f990343}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Web Browser Window

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100, 100, 400, 400

Value 4
  Name:            DontForceCreate
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{e8b06f53-6d01-
11d2-aa7d-00c04f990343}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {e8b06f41-6d01-11d2-aa7d-
00c04f990343}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Web Browser Preview Window

Value 2
  Name:            Style
  Type:            REG_SZ
  Data:            MDI

Value 3
  Name:            Float
  Type:            REG_SZ
  Data:            100, 100, 400, 400


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{ECB7191A-597B-
41F5-9843-03A4CF275DDE}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Immediate window


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{ECDD9EE0-AC6B-
11D0-89F9-00A0C9110055}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Running Documents


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{ECDD9EE0-AC6B-
11D0-89F9-00A0C9110055}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{EEFA5220-E298-
11D0-8F78-00A0C9110057}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Properties window


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{EEFA5220-E298-
11D0-8F78-00A0C9110057}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {adfc4e66-0397-11d1-9f4e-
00a0c911004f}
  Type:            REG_DWORD
  Data:            0

Value 1
  Name:            {93694fa0-0397-11d1-9f4e-
00a0c911004f}
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            {9DA22B82-6211-11d2-9561-
00600818403B}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{F2E84780-2AF1-
11D1-A7FA-00A0C9110051}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Autos


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{F2E84780-2AF1-
11D1-A7FA-00A0C9110051}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {ADFC4E61-0397-11D1-9F4E-
00A0C911004F}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{F78BCC56-71F7-
4e7d-8215-F690CAE4F452}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 1
  Name:            Float
  Type:            REG_SZ
  Data:            100,100,450,300

Value 2
  Name:            Name
  Type:            REG_SZ
  Data:            Call Browser (secondary)

Value 3
  Name:            DontForceCreate
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{FC29E0C0-C1AB-
4B30-B5DF-24AA452B9661}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            Console I/O


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ToolWindows\{FC29E0C0-C1AB-
4B30-B5DF-24AA452B9661}\Visibility
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            {F1536EF8-92EC-443C-9ED7-
FDADF150DA82}
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Debugger
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #5000

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {EEDBF29A-5C8B-4E01-827C-
263382C18CFE}

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {C9DD4A57-47FB-11D2-83E7-
00C04F9902C1}

Value 3
  Name:            AlternateParent
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            AutomationProperties

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #310


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14869

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Description
  Type:            REG_SZ
  Data:            #15071


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_Aliases
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14589

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {AD334E74-368A-4c46-9AF8-
F53ABF0775F2}

Value 3
  Name:            SecurityLevel
  Type:            REG_DWORD
  Data:            0x2

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14877


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_CallBrowser
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14649

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {50B05A5D-9174-48eb-851A-
B1C616A0B43D}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14885


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_ClassView
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14896

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {40AF29AB-4C5B-412A-9CE8-
465C4FCFE41D}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14884


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_CommandBars
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14534

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {B9D9C123-B500-4202-B887-
57C829CBD08F}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14870

Value 4
  Name:            ImportPass
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            SecurityLevel
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_DefaultEditors
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14982

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {68161AEE-BCA8-4214-B2E4-
7875263E49C5}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #15067


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_ErrorList
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14745

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4A9B7E50-AA16-11d0-A8C5-
00A0C921A4D2}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {68897077-DF64-4628-9BD4-
025923684F2F}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14879


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_Expansions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14704

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {F5E7E720-1401-11d1-883B-
0000F87579D2}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {0B9A10B2-C0D0-4a6a-8353-
115E9CACF34A}

Value 3
  Name:            ResourcePackage
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 4
  Name:            Description
  Type:            REG_SZ
  Data:            #14886


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_ExternalTools
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14585

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {E8FAE9E8-FBA2-4474-B134-
AB0FFCFB291D}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14874

Value 4
  Name:            SecurityLevel
  Type:            REG_DWORD
  Data:            0x2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_FindSymbol
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14858

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {C93260BC-0C07-484a-8188-
6F4763BD7FD4}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14887


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_FontsAndColors
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14586

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {1EDA5DD4-927A-43a7-810E-
7FD247D0DA1D}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14875

Value 4
  Name:            AlternateParent
  Type:            REG_SZ
  Data:            AutomationProperties\Environment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_KeyBindings
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14568

Value 1
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {F09035F1-80D2-4312-8EC4-
4D354A4BCB4C}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14871

Value 4
  Name:            AlternateParent
  Type:            REG_SZ
  Data:            AutomationProperties\Environment

Value 5
  Name:            SecurityLevel
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_NewProjectDialogPreferredLanguage
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14701

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {77E22C0C-9F4A-4bfb-AD3A-
3F3F4711E9ED}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14882


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_ObjectBrowser
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14897

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {D98D784D-88BF-4EBF-B039-
C146EC14F472}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14883


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_OutputWindow
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14898

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {07C6CD04-100B-4f3e-BA93-
DD1363E8D8E3}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14880


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_PropertiesWindow
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #1004

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {7494682b-37a0-11d2-a273-
00c04f8ef4ff}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {731a3cc7-de5e-49ca-9115-
9a03e46624b0}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #1005


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_SimplifiedToolsOptions
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14605

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {13BEDEE6-9051-4809-B9E3-
2EEC749EB15A}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14873


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_StartPage
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14524
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {255FE6D3-A0AE-4076-A509-
D581B2BE4F9E}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14989


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_TaskList
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14557

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {4A9B7E50-AA16-11d0-A8C5-
00A0C921A4D2}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {8EA81A4E-FDB5-4ee8-BD1A-
22ECBF73B7CD}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14878


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_Toolbox
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #13519

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {481999F2-7479-4e03-83D5-
BE808BA142DF}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14881


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_UnifiedFind
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14570

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {DF00ADDF-C14C-4ffd-9325-
634FD605850B}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14876


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Group\
Environment_WindowLayout
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #14533

Value 1
  Name:            Package
  Type:            REG_SZ
  Data:            {DA9FB551-C724-11d0-AE1F-
00A0C90FFFC3}

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {eb4ba109-a9db-4445-bd09-
e7604bcdce84}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #14872

Value 4
  Name:            ImportPass
  Type:            REG_DWORD
  Data:            0

Value 5
  Name:            SecurityLevel
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Help
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3534

Value 1
  Name:            ResourcePackage
  Type:            REG_SZ
  Data:            {4A791146-19E4-11D3-B86B-
00C04F79F802}

Value 2
  Name:            Description
  Type:            REG_SZ
  Data:            #3539


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Help\E
nvironment_Help_Favorites
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3533

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {B63D51EF-4023-4f89-9DE3-
14E8EC36132F}
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {4A791146-19E4-11D3-B86B-
00C04F79F802}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #3543

Value 4
  Name:            SensitivityLevel
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Help\E
nvironment_Help_IndexFilter
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3531

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {A69C6FF2-EC60-4fc8-BB7E-
F77AB60938B4}

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {4A791146-19E4-11D3-B86B-
00C04F79F802}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #3541


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Help\E
nvironment_Help_Options
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3530

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {C7C72A03-D951-428f-9F0D-
D29D9E038FAA}

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {4A791146-19E4-11D3-B86B-
00C04F79F802}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #3540

Value 4
  Name:            AlternateParent
  Type:            REG_SZ
  Data:            AutomationProperties\Environment


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\Environment_Help\E
nvironment_Help_SearchFilter
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #3532

Value 1
  Name:            Category
  Type:            REG_SZ
  Data:            {C59B9E28-E89E-4028-A3EF-
50FA6DF01120}

Value 2
  Name:            Package
  Type:            REG_SZ
  Data:            {4A791146-19E4-11D3-B86B-
00C04F79F802}

Value 3
  Name:            Description
  Type:            REG_SZ
  Data:            #3542


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\UserSettings\XmlEditor
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            #205

Value 1
  Name:            AlternateParent
  Type:            REG_SZ
  Data:            AutomationProperties\TextEditor

Value 2
  Name:            Category
  Type:            REG_SZ
  Data:            {4E1CDE49-B840-4826-8CC6-
8FB80D7EF455}

Value 3
  Name:            Package
  Type:            REG_SZ
  Data:            {87569308-4813-40a0-9cd0-
d7a30838ca3f}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\ViewAdapters
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:
Microsoft.VisualStudio.OLE.Interop.IOleDocument,
Microsoft.VisualStudio.OLE.Interop,
Version=7.1.40304.0, Culture=neutral,
PublicKeyToken=b03f5f7f11d50a3a
  Type:            REG_SZ
  Data:
Microsoft.VisualStudio.Design.PassthroughWindowPane,
Microsoft.VisualStudio.Design, Version=2.0.0.0,
Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\VSProtocol
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            DllName
  Type:            REG_SZ
  Data:            AppIDPackage.rll

Value 1
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\WMAppCommand
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            1
  Type:            REG_SZ
  Data:            {e8b06f44-6d01-11d2-aa7d-
00c04f990343}:201
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            2
  Type:            REG_SZ
  Data:            {e8b06f44-6d01-11d2-aa7d-
00c04f990343}:202

Value 2
  Name:            3
  Type:            REG_SZ
  Data:            {e8b06f44-6d01-11d2-aa7d-
00c04f990343}:204

Value 3
  Name:            4
  Type:            REG_SZ
  Data:            {e8b06f44-6d01-11d2-aa7d-
00c04f990343}:203

Value 4
  Name:            5
  Type:            REG_SZ
  Data:            {e8b06f44-6d01-11d2-aa7d-
00c04f990343}:206

Value 5
  Name:            6
  Type:            REG_SZ
  Data:            {4A79114a-19E4-11d3-B86B-
00C04F79F802}:282

Value 6
  Name:            7
  Type:            REG_SZ
  Data:            {e8b06f44-6d01-11d2-aa7d-
00c04f990343}:205


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\XmlDesigners
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\XmlDesigners\{07AC752B-D2B0-
4dcd-AD9C-237BF561A30A}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            DataSet Designer

Value 1
  Name:            Namespace
  Type:            REG_SZ
  Data:            urn:schemas-microsoft-com:xml-
msdata

Value 2
  Name:            Editor
  Type:            REG_SZ
  Data:            07AC752B-D2B0-4dcd-AD9C-
237BF561A30A

Value 3
  Name:            LogicalView
  Type:            REG_SZ
  Data:            7651a702-06e5-11d1-8ebd-
00a0c90f26ea


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\XmlDesigners\{A66A99F2-AAF9-
4023-B242-B417640676EE}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            XSD Designer

Value 1
  Name:            Namespace
  Type:            REG_SZ
  Data:            http://www.w3.org/2001/XMLSchema

Value 2
  Name:            Editor
  Type:            REG_SZ
  Data:            A66A99F2-AAF9-4023-B242-
B417640676EE

Value 3
  Name:            LogicalView
  Type:            REG_SZ
  Data:            7651a702-06e5-11d1-8ebd-
00a0c90f26ea


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shell\XmlDesigners\{FF4D6ACA-9352-
4A5F-821E-F4D6EBDCAB11}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            RESX Designer

Value 1
  Name:            Extension
  Type:            REG_SZ
  Data:            resx

Value 2
  Name:            Editor
  Type:            REG_SZ
  Data:            FF4D6ACA-9352-4A5F-821E-
F4D6EBDCAB11

Value 3
  Name:            LogicalView
  Type:            REG_SZ
  Data:            00000000-0000-0000-0000-
000000000000


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:21 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\AS Deployment Wizard
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:21 PM
Value 0
  Name:            1033
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\AS MigrationWizard
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:21 PM
Value 0
  Name:            1033
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\Books Online
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:21 PM
Value 0
  Name:            1033
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\Business Intelligence
Workbench
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:21 PM
Value 0
  Name:            1033
  Type:            REG_SZ
  Data:
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\Database Tuning Advisor
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:21 PM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\Instance Rename
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:21 PM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\Notification Services
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:21 PM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\Profiler
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:21 PM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\Reporting Services
Configuration
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:21 PM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\SQL Configuration Manager
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\SQL Server Error and Usage
Reporting
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\SQL Workbench
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:21 PM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\Surface Area Configuration
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall Info
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall Info\{2373A92B-1C1C-4E71-B494-
5CA97F96AA19}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Product
  Type:             REG_SZ
  Data:             SQL_Engine

Value 1
  Name:             SetupHive
  Type:             REG_SZ
  Data:             MSSQL.1

Value 2
  Name:             RemoveList
  Type:             REG_SZ
  Data:
SQL_Engine,SQL_Data_Files,SQL_Replication,SQL_FullTex
t,SQL_SharedTools

Value 3
  Name:             ModifyPath
  Type:             REG_SZ
  Data:             "C:\Program Files\Microsoft SQL
Server\90\Setup Bootstrap\setup.exe" /resumesetup
/productcode {2373A92B-1C1C-4E71-B494-5CA97F96AA19}
/I {2373A92B-1C1C-4E71-B494-5CA97F96AA19}

Value 4
  Name:             UninstallPath
  Type:             REG_SZ
  Data:             "C:\Program Files\Microsoft SQL
Server\90\Setup Bootstrap\setup.exe" /resumesetup
/productcode {2373A92B-1C1C-4E71-B494-5CA97F96AA19}
/X {2373A92B-1C1C-4E71-B494-5CA97F96AA19}

Value 5
  Name:             Status
  Type:             REG_DWORD
  Data:             0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall Info\{90032DD0-ABEE-4424-AC1E-
B076BDD4E350}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:22 PM
Value 0
  Name:             Product
  Type:             REG_SZ
  Data:             Client_Components

Value 1
  Name:             SetupHive
  Type:             REG_SZ
  Data:             90\Tools

Value 2
  Name:             RemoveList
  Type:             REG_SZ
  Data:
Client_Components,Connectivity,SQL_Tools90,SQL_Profil
er90,SQL_WarehouseDevWorkbench,SDK,SQLXML,Tools_Legac
y,SQL_Documentation,SQL_BooksOnline,SQL_SQLServerBook
sOnline,SQL_SQLServerMobileBooksOnline,SQL_DatabaseSa
mples,SQL_AdventureWorksSamples,SQL_AdventureWorksDWS
amples,SQL_AdventureWorksASSamples,SQL_Samples

Value 3
  Name:             ModifyPath
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            "C:\Program Files\Microsoft SQL
Server\90\Setup Bootstrap\setup.exe" /resumesetup
/productcode {90032DD0-ABEE-4424-AC1E-B076BDD4E350}
/I {90032DD0-ABEE-4424-AC1E-B076BDD4E350}

Value 4
  Name:            UninstallPath
  Type:            REG_SZ
  Data:            "C:\Program Files\Microsoft SQL
Server\90\Setup Bootstrap\setup.exe" /resumesetup
/productcode {90032DD0-ABEE-4424-AC1E-B076BDD4E350}
/X {90032DD0-ABEE-4424-AC1E-B076BDD4E350}

Value 5
  Name:            Status
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\ExceptionMessageBox
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            ShowFeedbackButton
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Instance Names
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Instance Names\SQL
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            MSSQLSERVER
  Type:            REG_SZ
  Data:            MSSQL.1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            MSSQLSERVER


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\CPE
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            ErrorDumpDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\LOG\

Value 1
  Name:            EnableErrorReporting
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            CustomerFeedback
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            TimeOfReporting
  Type:            REG_DWORD
  Data:            0x3c

Value 4
  Name:            CollectorParameters
  Type:            REG_SZ
  Data:            SQL MSSQL.1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{01C6B350-12C7-11CE-
BD31-00AA004BBB1F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{12CE94A0-DEFB-11D2-
B31D-00600893A857}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            chsbrkr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{1305C72E-2073-452E-
A72D-667032B3B4FE}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            msir5jp.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{1680E7C3-9430-4A51-
9B82-1E7E7AEE5258}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            chtbrkr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{16BC5CE4-2C78-4CB9-
80D5-386A68CC2B2D}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            danlr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{173C97E2-AEBE-437C-
9445-01B237ABF2F6}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            langwrbk.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{188D6CC5-CB03-4C01-
912E-47D21295D77E}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            langwrbk.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{20036404-F1AF-11D2-
A57F-006052076F32}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            ruslr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{20036414-F1AF-11D2-
A57F-006052076F32}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            ruslr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{23A9C1C3-3C7A-4D2C-
B894-4F286459DAD6}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            trklr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{25B7FD48-5404-4BEB-
9D80-B6982AF404FD}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            ptblr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{2A6EB050-7F1C-11CE-
BE57-00AA0051FE20}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{41B9BE05-B3AF-460C-
BF0B-2CDD44A093B1}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            xmlfilt.dll

Value 1
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{52F1DEDC-C51B-11D2-
9A7C-00004F6888ED}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            msfte.dll

Value 1
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{5D5F3A69-620C-4952-
B067-4D0126BB6086}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            ptslr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{66B37110-8BF2-11CE-
BE59-00AA0051FE20}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{68C6D24E-77E0-11D5-
8528-00C04F68155C}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            msfte.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{6D36CE10-7F1C-11CE-
BE57-00AA0051FE20}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{6DE705A5-6467-43DC-
9CE3-CCFE08B3F645}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            nls400.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{737FC9B5-BC66-4953-
B7DB-B79A72A592A5}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            korwbrkr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{73D009FB-7D05-45AC-
94C2-EDD1029942D4}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            langwrbk.dll
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{83BC7EF7-D27B-4950-
A743-0F8E5CA928F8}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             danlr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{860D28D0-8BF4-11CE-
BE59-00AA0051FE20}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{8DF412D1-62C7-4667-
BBEC-38756576C21B}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             trklr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{9478F640-7F1C-11CE-
BE57-00AA0051FE20}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{95679344-48B8-42CD-
9B79-2F5784D70258}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             langwrbk.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{97E8EFC5-42DA-43ED-
9CEC-84FDE3620F1A}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             korwbrkr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{9EA69E16-AD5E-43ED-
B90E-73D58771D3F6}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             nls400.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{A9FFAE02-D834-47B3-
8434-0D75DC0804BD}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             msir5jp.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{B0516FF0-7F1C-11CE-
BE57-00AA0051FE20}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{B8713269-2D9D-4BF5-
BF40-2615D75723D8}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             lrpolish.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{C731071F-AC80-11D1-
8DF3-00C04FB6EF4F}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             msfte.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{C7310720-AC80-11D1-
8DF3-00C04FB6EF4F}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             msfte.dll

Value 1
  Name:             ThreadingModel
  Type:             REG_SZ
  Data:             Both


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{CA665B09-4642-4C84-
A9B7-9B8F3CD7C3F6}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             lrpolish.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{CCA22CF4-59FE-11D1-
BBFF-00C04FB97FDA}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             thawbrkr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{CEDC01C7-59FE-11D1-
BBFF-00C04FB97FDA}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            thawbrkr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{D4171BC4-90BE-4F70-
8610-DAB1C17F063C}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            ptslr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{D5FCDD7E-DBFF-473F-
BCCD-3AFD1890EA85}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            ptblr.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{D99F7670-7F1A-11CE-
BE57-00AA0051FE20}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{E0CA5340-4534-11CF-
B952-00AA0051FE20}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            nlhtml.dll

Value 1
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{EEED4C20-7F1B-11CE-
BE57-00AA0051FE20}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{F07F3920-7B8C-11CF-
9BE8-00AA004B9986}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            offfilt.dll

Value 1
  Name:            ThreadingModel
  Type:            REG_SZ
  Data:            Both


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\CLSID\{FD86B5D0-12C6-11CE-
BD31-00AA004BBB1F}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            infosoft.dll


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.ascx
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.asm
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.asp
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.aspx
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.bat
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.c
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.cmd
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.cpp
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.cxx
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.def
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.dic
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.doc
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.dot
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.h
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.hhc
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.hpp
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.htm
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.html
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.htw
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.htx
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.hxx
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.ibq
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.idl
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.inc
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.inf
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.ini
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.inx
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
```

```
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.js
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.log
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.m3u
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.mht
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.obd
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
```

```
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.obt
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.odc
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.pl
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.pot
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.ppt
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.rc
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.reg
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.rtf
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.stm
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.txt
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.url
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.vbs
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.wtx
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.xlb
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.xlc
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.xls
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.xlt
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.xml
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {41B9BE05-B3AF-460C-BF0B-
2CDD44A093B1}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{00020810-0000-
0000-C000-000000000046}
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Server\MSSQL.1\MSSearch\Filters\CLSID\{00020811-0000-
0000-C000-000000000046}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{00020820-0000-
0000-C000-000000000046}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{00020821-0000-
0000-C000-000000000046}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{00020900-0000-
0000-C000-000000000046}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{00020906-0000-
0000-C000-000000000046}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{25336920-03F9-
11CF-8FD0-00AA00686F13}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{59850400-6664-
101B-B21C-00AA004BA90B}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{5E941D80-BF96-
11CD-B579-08002B30BFEB}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{64818D10-4F9B-
11CF-86EA-00AA00B929E8}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{64818D11-4F9B-
11CF-86EA-00AA00B929E8}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{7F73B8F6-C19C-
11D0-AA66-00C04FC2EDDC}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{87DB1ADA-AA39-
11D1-829F-00A0C906B239}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{89BCB7A4-6119-
101A-BCB7-00DD010655AF}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{8C9E8E1C-90F0-
11D1-BA0F-00A0C906B239}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Server\MSSQL.1\MSSearch\Filters\CLSID\{95876EB0-90F0-
11D1-BA0F-00A0C906B239}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{961C1130-89AD-
11CF-88A1-00AA004B9986}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{9ED4692C-90F0-
11D1-BA0F-00A0C906B239}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {C7310720-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{BD70C020-2D24-
11D0-9110-00004C752752}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {E0CA5340-4534-11CF-B952-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\CLSID\{EA7BAE70-FB3B-
11CD-A903-00AA00510EA3}
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             <NO NAME>
  Type:             REG_SZ
  Data:             {F07F3920-7B8C-11CF-9BE8-
00AA004B9986}
```

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\GlobalAdminBlob
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:20 PM
Value 0
  Name:             Blob0
  Type:             REG_BINARY
  Data:
00000000   00 00 00 80 60 02 00 00 - 05 00 15 00 46
00 54 00  ....`.......F.T.
00000010   45 00 5f 00 52 00 65 00 - 74 00 61 00 69
00 6c 00  E._.R.e.t.a.i.l.
00000020   54 00 72 00 61 00 63 00 - 69 00 6e 00 67
00 50 00  T.r.a.c.i.n.g.P.
00000030   61 00 74 00 68 00 00 00 - 08 00 37 00 43
00 3a 00  a.t.h.....7.C.:.
00000040   5c 00 50 00 72 00 6f 00 - 67 00 72 00 61
00 6d 00  \.P.r.o.g.r.a.m.
00000050   20 00 46 00 69 00 6c 00 - 65 00 73 00 5c
00 4d 00   .F.i.l.e.s.\.M.
00000060   69 00 63 00 72 00 6f 00 - 73 00 6f 00 66
00 74 00  i.c.r.o.s.o.f.t.
00000070   20 00 53 00 51 00 4c 00 - 20 00 53 00 65
00 72 00   .S.Q.L. .S.e.r.
00000080   76 00 65 00 72 00 5c 00 - 4d 00 53 00 53
00 51 00  v.e.r.\.M.S.S.Q.
00000090   4c 00 2e 00 31 00 5c 00 - 4d 00 53 00 53
00 51 00  L...1.\.M.S.S.Q.
000000a0   4c 00 5c 00 4c 00 4f 00 - 47 00 00 00 14
00 46 00  L.\.L.O.G.....F.
000000b0   54 00 45 00 5f 00 53 00 - 51 00 4c 00 44
00 75 00  T.E._.S.Q.L.D.u.
000000c0   6d 00 70 00 65 00 72 00 - 44 00 75 00 6d
00 70 00  m.p.e.r.D.u.m.p.
000000d0   44 00 69 00 72 00 00 00 - 08 00 37 00 43
00 3a 00  D.i.r.....7.C.:.
000000e0   5c 00 50 00 72 00 6f 00 - 67 00 72 00 61
00 6d 00  \.P.r.o.g.r.a.m.
000000f0   20 00 46 00 69 00 6c 00 - 65 00 73 00 5c
00 4d 00   .F.i.l.e.s.\.M.
00000100   69 00 63 00 72 00 6f 00 - 73 00 6f 00 66
00 74 00  i.c.r.o.s.o.f.t.
00000110   20 00 53 00 51 00 4c 00 - 20 00 53 00 65
00 72 00   .S.Q.L. .S.e.r.
00000120   76 00 65 00 72 00 5c 00 - 4d 00 53 00 53
00 51 00  v.e.r.\.M.S.S.Q.
00000130   4c 00 2e 00 31 00 5c 00 - 4d 00 53 00 53
00 51 00  L...1.\.M.S.S.Q.
00000140   4c 00 5c 00 4c 00 4f 00 - 47 00 00 00 12
00 46 00  L.\.L.O.G.....F.
00000150   54 00 45 00 5f 00 53 00 - 51 00 4c 00 44
00 75 00  T.E._.S.Q.L.D.u.
00000160   6d 00 70 00 65 00 72 00 - 46 00 6c 00 61
00 67 00  m.p.e.r.F.l.a.g.
00000170   73 00 00 00 08 00 06 00 - 30 00 78 00 30
00 38 00  s.......0.x.0.8.
00000180   30 00 30 00 00 00 15 00 - 46 00 54 00 45
00 5f 00  0.0.....F.T.E._.
```

```
00000190   53 00 51 00 4c 00 44 00 - 75 00 6d 00 70
00 65 00  S.Q.L.D.u.m.p.e.
000001a0   72 00 46 00 75 00 6c 00 - 6c 00 50 00 61
00 74 00  r.F.u.l.l.P.a.t.
000001b0   68 00 00 00 08 00 3d 00 - 43 00 3a 00 5c
00 50 00  h.....=.C.:.\.P.
000001c0   72 00 6f 00 67 00 72 00 - 61 00 6d 00 20
00 46 00  r.o.g.r.a.m. .F.
000001d0   69 00 6c 00 65 00 73 00 - 5c 00 4d 00 69
00 63 00  i.l.e.s.\.M.i.c.
000001e0   72 00 6f 00 73 00 6f 00 - 66 00 74 00 20
00 53 00  r.o.s.o.f.t. .S.
000001f0   51 00 4c 00 20 00 53 00 - 65 00 72 00 76
00 65 00  Q.L. .S.e.r.v.e.
00000200   72 00 5c 00 39 00 30 00 - 5c 00 53 00 68
00 61 00  r.\.9.0.\.S.h.a.
00000210   72 00 65 00 64 00 5c 00 - 73 00 71 00 6c
00 64 00  r.e.d.\.s.q.l.d.
00000220   75 00 6d 00 70 00 65 00 - 72 00 2e 00 65
00 78 00  u.m.p.e.r...e.x.
00000230   65 00 00 00 11 00 46 00 - 54 00 45 00 5f
00 45 00  e.....F.T.E._.E.
00000240   72 00 72 00 6f 00 72 00 - 43 00 6f 00 75
00 6e 00  r.r.o.r.C.o.u.n.
00000250   74 00 4d 00 61 00 78 00 - 00 00 13 00 00
00 00 00  t.M.a.x.........
```

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\chs
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             NoiseFile
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisechs.txt

Value 1
  Name:             TsaurusFile
  Type:             REG_SZ
  Data:             C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tschs.xml

Value 2
  Name:             Locale
  Type:             REG_DWORD
  Data:             0x804

Value 3
  Name:             WBreakerClass
  Type:             REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            {12CE94A0-DEFB-11D2-B31D-
00600893A857}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\cht
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisecht.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tscht.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x404

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {1680E7C3-9430-4A51-9B82-
1E7E7AEE5258}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\dan
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisedan.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsdan.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x406

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {16BC5CE4-2C78-4CB9-80D5-
386A68CC2B2D}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {83BC7EF7-D27B-4950-A743-
0F8E5CA928F8}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\deu
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisedeu.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsdeu.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x407

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {9EA69E16-AD5E-43ED-B90E-
73D58771D3F6}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {6DE705A5-6467-43DC-9CE3-
CCFE08B3F645}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\eng
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseeng.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tseng.xml

Value 2
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {D99F7670-7F1A-11CE-BE57-
00AA0051FE20}

Value 3
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x809

Value 4
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {173C97E2-AEBE-437C-9445-
01B237ABF2F6}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\enu
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseenu.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsenu.xml

Value 2
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {EEED4C20-7F1B-11CE-BE57-
00AA0051FE20}

Value 3
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x409

Value 4
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {188D6CC5-CB03-4C01-912E-
47D21295D77E}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\esn
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseesn.txt
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsesn.xml

Value 2
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {B0516FF0-7F1C-11CE-BE57-
00AA0051FE20}

Value 3
  Name:            Locale
  Type:            REG_DWORD
  Data:            0xc0a

Value 4
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {73D009FB-7D05-45AC-94C2-
EDD1029942D4}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\fra
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisefra.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsfra.xml

Value 2
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {2A6EB050-7F1C-11CE-BE57-
00AA0051FE20}

Value 3
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x40c

Value 4
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {95679344-48B8-42CD-9B79-
2F5784D70258}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\ita
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseita.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsita.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x410

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {FD86B5D0-12C6-11CE-BD31-
00AA004BBB1F}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {6D36CE10-7F1C-11CE-BE57-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\jpn
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisejpn.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsjpn.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x411

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {A9FFAE02-D834-47B3-8434-
0D75DC0804BD}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {1305C72E-2073-452E-A72D-
667032B3B4FE}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\kor
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisekor.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tskor.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x412

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {737FC9B5-BC66-4953-B7DB-
B79A72A592A5}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {97E8EFC5-42DA-43ED-9CEC-
84FDE3620F1A}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\Neutral
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseneu.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsglobal.xml
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {C731071F-AC80-11D1-8DF3-
00C04FB6EF4F}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\nld
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisenld.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsnld.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x413

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {66B37110-8BF2-11CE-BE59-
00AA0051FE20}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {860D28D0-8BF4-11CE-BE59-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\plk
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseplk.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsplk.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x415

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {CA665B09-4642-4C84-A9B7-
9B8F3CD7C3F6}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {B8713269-2D9D-4BF5-BF40-
2615D75723D8}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\ptb
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseptb.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsptb.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x416

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {25B7FD48-5404-4BEB-9D80-
B6982AF404FD}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {D5FCDD7E-DBFF-473F-BCCD-
3AFD1890EA85}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\pts
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisepts.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tspts.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x816

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {5D5F3A69-620C-4952-B067-
4D0126BB6086}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {D4171BC4-90BE-4F70-8610-
DAB1C17F063C}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\rus
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiserus.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsrus.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x419

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {20036404-F1AF-11D2-A57F-
006052076F32}

Value 4
  Name:            StemmerClass
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Type:            REG_SZ
  Data:            {20036414-F1AF-11D2-A57F-
006052076F32}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\sve
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisesve.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tssve.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x41d

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {01C6B350-12C7-11CE-BD31-
00AA004BBB1F}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {9478F640-7F1C-11CE-BE57-
00AA0051FE20}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\tha
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisetha.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tstha.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x41e

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {CCA22CF4-59FE-11D1-BBFF-
00C04FB97FDA}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {CEDC01C7-59FE-11D1-BBFF-
00C04FB97FDA}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\trk
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisetrk.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tstrk.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x41f

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {8DF412D1-62C7-4667-BBEC-
38756576C21B}

Value 4
  Name:            StemmerClass
  Type:            REG_SZ
  Data:            {23A9C1C3-3C7A-4D2C-B894-
4F286459DAD6}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\zh-hk
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisecht.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tscht.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0xc04

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {1680E7C3-9430-4A51-9B82-
1E7E7AEE5258}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\zh-mo
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisecht.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tscht.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x1404

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {1680E7C3-9430-4A51-9B82-
1E7E7AEE5258}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\zh-sg
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            NoiseFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisechs.txt

Value 1
  Name:            TsaurusFile
  Type:            REG_SZ
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tschs.xml

Value 2
  Name:            Locale
  Type:            REG_DWORD
  Data:            0x1004

Value 3
  Name:            WBreakerClass
  Type:            REG_SZ
  Data:            {12CE94A0-DEFB-11D2-B31D-
00600893A857}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Plugins
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Plugins\MicrosoftIndexer
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            <NO NAME>
  Type:            REG_SZ
  Data:            {68C6D24E-77E0-11D5-8528-
00C04F68155C}


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer
Class Name:        <NO CLASS>
Last Write Time:   9/15/2005 - 1:55 PM
Value 0
  Name:            AuditLevel
  Type:            REG_DWORD
  Data:            0x2

Value 1
  Name:            DebugClassID
  Type:            REG_SZ
  Data:            {6E581D86-EF65-4537-92F5-
5162CADDAAFB}

Value 2
  Name:            DefaultLogin
  Type:            REG_SZ
  Data:            guest

Value 3
  Name:            LoginMode
  Type:            REG_DWORD
  Data:            0x2

Value 4
  Name:            Map_
  Type:            REG_SZ
  Data:            \

Value 5
  Name:            Map#
  Type:            REG_SZ
  Data:            -

Value 6
  Name:            Map$
  Type:            REG_SZ
  Data:

Value 7
  Name:            SetHostName
  Type:            REG_DWORD
  Data:            0

Value 8
  Name:            Tapeloadwaittime
  Type:            REG_DWORD
  Data:            0xffffffff

Value 9
  Name:            BackupDirectory
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\Backup

Value 10
  Name:            SysDb
  Type:            REG_DWORD
  Data:            0x1

Value 11
  Name:            FullTextDefaultPath
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData

Value 12
  Name:            uptime_pid
  Type:            REG_DWORD
  Data:            0x600

Value 13
  Name:            uptime_time_utc
  Type:            REG_BINARY
  Data:
40 6c ef fc 26 ba c5 01 -
@lïü&°Å.


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\CurrentVersion
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            Language
  Type:            REG_DWORD
  Data:            0x409

Value 1
  Name:            CurrentVersion
  Type:            REG_SZ
  Data:            9.00.1187.07

Value 2
  Name:            RegisteredOwner
  Type:            REG_SZ
  Data:

Value 3
  Name:            SerialNumber
  Type:            REG_SZ
  Data:


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\Parameters
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            SQLArg0
  Type:            REG_SZ
  Data:            -dC:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\DATA\master.mdf

Value 1
  Name:            SQLArg1
  Type:            REG_SZ
  Data:            -eC:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\LOG\ERRORLOG

Value 2
  Name:            SQLArg2
  Type:            REG_SZ
  Data:            -lC:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\DATA\mastlog.ldf


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            ForceEncryption
  Type:            REG_DWORD
  Data:            0

Value 1
  Name:            HideInstance
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            Certificate
  Type:            REG_SZ
  Data:
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 3
  Name:            DisplayName
  Type:            REG_SZ
  Data:            SQL Server Network Configuration


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\AdminCon
nection
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            DisplayName
  Type:            REG_SZ
  Data:            Dedicated Administrative
Connection


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\AdminCon
nection\Tcp
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            TcpDynamicPorts
  Type:            REG_SZ
  Data:            1434

Value 1
  Name:            DisplayName
  Type:            REG_SZ
  Data:            TCP/IP


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Np
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            Enabled
  Type:            REG_DWORD
  Data:            0

Value 1
  Name:            LocalAccessOnly
  Type:            REG_DWORD
  Data:            0

Value 2
  Name:            PipeName
  Type:            REG_SZ
  Data:            \\.\pipe\sql\query

Value 3
  Name:            DisplayName
  Type:            REG_SZ
  Data:            Named Pipes


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Sm
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            Enabled
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            DisplayName
  Type:            REG_SZ
  Data:            Shared Memory


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:45 PM
Value 0
  Name:            Enabled
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            ListenOnAllIPs
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            NoDelay
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            KeepAlive
  Type:            REG_DWORD
  Data:            0x7530

Value 4
  Name:            DisplayName
  Type:            REG_SZ
  Data:            TCP/IP


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP1
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            Enabled
  Type:            REG_DWORD
  Data:            0

Value 1
  Name:            Active
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            TcpPort
  Type:            REG_SZ
  Data:            1433

Value 3
  Name:            TcpDynamicPorts
  Type:            REG_SZ
  Data:

Value 4
  Name:            DisplayName
  Type:            REG_SZ
  Data:            Specific IP Address

Value 5
  Name:            IpAddress
  Type:            REG_SZ
  Data:            130.169.208.16


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP2
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            Enabled
  Type:            REG_DWORD
  Data:            0

Value 1
  Name:            Active
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            TcpPort
  Type:            REG_SZ
  Data:            1433

Value 3
  Name:            TcpDynamicPorts
  Type:            REG_SZ
  Data:

Value 4
  Name:            DisplayName
  Type:            REG_SZ
  Data:            Specific IP Address

Value 5
  Name:            IpAddress
  Type:            REG_SZ
  Data:            130.14.208.16
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP3
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Enabled
  Type:             REG_DWORD
  Data:             0

Value 1
  Name:             Active
  Type:             REG_DWORD
  Data:             0x1

Value 2
  Name:             TcpPort
  Type:             REG_SZ
  Data:             1433

Value 3
  Name:             TcpDynamicPorts
  Type:             REG_SZ
  Data:

Value 4
  Name:             DisplayName
  Type:             REG_SZ
  Data:             Specific IP Address

Value 5
  Name:             IpAddress
  Type:             REG_SZ
  Data:             130.168.208.16


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP4
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Enabled
  Type:             REG_DWORD
  Data:             0

Value 1
  Name:             Active
  Type:             REG_DWORD
  Data:             0x1

Value 2
  Name:             TcpPort
  Type:             REG_SZ
  Data:             1433

Value 3
  Name:             TcpDynamicPorts
  Type:             REG_SZ
  Data:

Value 4
  Name:             DisplayName
  Type:             REG_SZ
  Data:             Specific IP Address

Value 5
  Name:             IpAddress
  Type:             REG_SZ
  Data:             127.0.0.1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IPAl
l
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:32 PM
Value 0
  Name:             TcpPort
  Type:             REG_SZ
  Data:             2001,2002,2003,2004

Value 1
  Name:             TcpDynamicPorts
  Type:             REG_SZ
  Data:

Value 2
  Name:             DisplayName
  Type:             REG_SZ
  Data:             Any IP Address


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Via
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Enabled
  Type:             REG_DWORD
  Data:             0

Value 1
  Name:             DefaultServerPort
  Type:             REG_SZ
  Data:             0:1433

Value 2
  Name:             ListenInfo
  Type:             REG_SZ
  Data:             0:1433

Value 3
  Name:             DisplayName
  Type:             REG_SZ
  Data:             VIA


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             AllowInProcess
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\ADSDSOObject
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             AllowInProcess
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\DB2OLEDB
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             AllowInProcess
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\Microsoft.Jet.OLEDB.4.0
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             AllowInProcess
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\MSDAORA
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             AllowInProcess
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\MSDASQL
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
  Name:            AllowInProcess
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\MSIDXS
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            AllowInProcess
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\MSQLImpProv
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            AllowInProcess
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\MSSEARCHSQL
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            AllowInProcess
  Type:            REG_DWORD
  Data:            0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\SQLNCLI
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            AllowInProcess
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            DisallowAdhocAccess
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\SQLOLEDB
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            AllowInProcess
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            DisallowAdhocAccess
  Type:            REG_DWORD
  Data:            0


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Replication
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            IsInstalled
  Type:            REG_DWORD
  Data:            0x1

Value 1
  Name:            DistributionDB
  Type:            REG_SZ
  Data:

Value 2
  Name:            WorkingDirectory
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\REPLDATA


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Setup
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:20 PM
Value 0
  Name:            Version
  Type:            REG_SZ
  Data:            9.00.1187.07

Value 1
  Name:            Language
  Type:            REG_DWORD
  Data:            0x409

Value 2
  Name:            Resume
  Type:            REG_DWORD
  Data:            0

Value 3
  Name:            ProductCode
  Type:            REG_SZ
  Data:            {2373A92B-1C1C-4E71-B494-
5CA97F96AA19}

Value 4
  Name:            SqlProgramDir
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\

Value 5
  Name:            checksum
  Type:            REG_BINARY
  Data:
00000000   38 33 33 66 66 66 30 65 - 62 38 32 62 30
34 37 62  833fff0eb82b047b
00000010   31 30 35 31 36 38 32 31 - 30 30 63 64 36
32 36 35  1051682100cd6265
00000020   37 33 31 30 32 38 65 37 - 38 37 61 33 36
39 38 62  731028e787a3698b
00000030   35 63 39 61 38 61 66 61 - 66 63 36 65 32
63 38 33  5c9a8afafc6e2c83
00000040   35 32 65 33 62 61 34 33 - 38 38 38 32 32
31 31 64  52e3ba438882211d
00000050   33 36 66 39 64 61 39 36 - 34 65 35 31 63
39 30 65  36f9da964e51c90e
00000060   39 36 34 32 33 64 36 63 - 35 64 31 37 32
39 65 61  96423d6c5d1729ea
00000070   35 30 31 36 31 38 65 63 - 33 34 30 31 38
34 63 36  501618ec340184c6
00000080   34 38 64 37 64 30 39 35 - 36 63 35 63 37
36 64 65  48d7d0956c5c76de
00000090   62 66 61 64 35 35 65 38 - 66 34 66 62 38
30 63 36  bfad55e8f4fb80c6
65 66 64 65 37 32 63 39 - 00
efde72c9.

Value 6
  Name:            Edition
  Type:            REG_SZ
  Data:            Beta Edition

Value 7
  Name:            SqlCluster
  Type:            REG_DWORD
  Data:            0

Value 8
  Name:            FeatureList
  Type:            REG_SZ
  Data:            SQL_Engine=3 SQL_Data_Files=3
SQL_Replication=3 SQL_FullText=3 SQL_SharedTools=3

Value 9
  Name:            PatchLevel
  Type:            REG_SZ
  Data:            9.00.1187.07

Value 10
  Name:            Collation
  Type:            REG_SZ
  Data:            Latin1_General_BIN

Value 11
  Name:            FirstStart
  Type:            REG_DWORD
  Data:            0
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Value 12
  Name:            SQLDataRoot
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL

Value 13
  Name:            SQLPath
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL

Value 14
  Name:            SQLBinRoot
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\Binn


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\SQLServerAgent
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            JobHistoryMaxRowsPerJob
  Type:            REG_DWORD
  Data:            0x64

Value 1
  Name:            SysAdminOnly
  Type:            REG_DWORD
  Data:            0x1

Value 2
  Name:            DownloadedMaxRows
  Type:            REG_DWORD
  Data:            0x64

Value 3
  Name:            ErrorLogFile
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\LOG\SQLAGENT.OUT

Value 4
  Name:            ErrorLoggingLevel
  Type:            REG_DWORD
  Data:            0x3

Value 5
  Name:            JobHistoryMaxRows
  Type:            REG_DWORD
  Data:            0x3e8

Value 6
  Name:            MSXServerName
  Type:            REG_SZ
  Data:

Value 7
  Name:            NonAlertableErrors
  Type:            REG_SZ
  Data:            1204,4002

Value 8
  Name:            RestartServer
  Type:            REG_DWORD
  Data:            0x1

Value 9
  Name:            ServerHost
  Type:            REG_SZ
  Data:

Value 10
  Name:            WorkingDirectory
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\JOBS\


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\SQLServerSCP
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\Analysis Server
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            Name
  Type:            REG_SZ
  Data:            MSSQLServerOLAPService

Value 1
  Name:            LName
  Type:            REG_SZ
  Data:            MSOLAP$

Value 2
  Name:            Type
  Type:            REG_DWORD
  Data:            0x5


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\Full Text
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            LName
  Type:            REG_SZ
  Data:            msftesql$

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            msftesql

Value 2
  Name:            Type
  Type:            REG_DWORD
  Data:            0x3


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\Notification Services
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:19 PM
Value 0
  Name:            LName
  Type:            REG_SZ
  Data:            NS$

Value 1
  Name:            Name
  Type:            REG_SZ
  Data:            NsService

Value 2
  Name:            Type
  Type:            REG_DWORD
  Data:            0x8


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\NotificationServices
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\NotificationServices\InstalledVersion
s
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\NotificationServices\InstalledVersion
s\9.0.242
Class Name:        <NO CLASS>
Last Write Time:   7/19/2005 - 4:22 PM
Value 0
  Name:            Path
  Type:            REG_SZ
  Data:            C:\Program Files\Microsoft SQL
Server\90\NotificationServices\9.0.242\Bin\
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\Report Server
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Name
  Type:             REG_SZ
  Data:             ReportServer

Value 1
  Name:             LName
  Type:             REG_SZ
  Data:             ReportServer$

Value 2
  Name:             Type
  Type:             REG_DWORD
  Data:             0x6


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\SQL Agent
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Name
  Type:             REG_SZ
  Data:             SQLSERVERAGENT

Value 1
  Name:             LName
  Type:             REG_SZ
  Data:             SQLAgent$

Value 2
  Name:             Type
  Type:             REG_DWORD
  Data:             0x2


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\SQL Browser
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             LName
  Type:             REG_SZ
  Data:

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             SQLBrowser

Value 2
  Name:             Type
  Type:             REG_DWORD
  Data:             0x7


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\SQL Server
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             Name
  Type:             REG_SZ
  Data:             MSSQLServer

Value 1
  Name:             LName
  Type:             REG_SZ
  Data:             MSSQL$

Value 2
  Name:             Type
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\SSIS Server
Class Name:         <NO CLASS>
Last Write Time:    7/19/2005 - 4:19 PM
Value 0
  Name:             LName
  Type:             REG_SZ
  Data:

Value 1
  Name:             Name
  Type:             REG_SZ
  Data:             MsDtsServer

Value 2
  Name:             Type
  Type:             REG_DWORD
  Data:             0x4
```

Qldirect Registry Parameters

```
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
qldirect
Class Name:         <NO CLASS>
Last Write Time:    9/14/2005 - 12:38 PM
Value 0
  Name:             ERRORCONTROL
  Type:             REG_DWORD
  Data:             0x1

Value 1
  Name:             TYPE
  Type:             REG_DWORD
  Data:             0x1

Value 2
  Name:             GROUP
  Type:             REG_SZ
  Data:             qldirect

Value 3
  Name:             START
  Type:             REG_DWORD
  Data:             0x2


Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
qldirect\Parameters
Class Name:         <NO CLASS>
Last Write Time:    8/22/2005 - 11:26 AM
Value 0
  Name:             SRBLISTSIZE
  Type:             REG_DWORD
  Data:             0x800

Value 1
  Name:             FLAGS
  Type:             REG_DWORD
  Data:             0

Value 2
  Name:             MAXPATHSPERDEVICE
  Type:             REG_DWORD
  Data:             0x10

Value 3
  Name:             INSPECTIONINTERVAL
  Type:             REG_DWORD
  Data:             0x258

Value 4
  Name:             OPTIMIZATION
  Type:             REG_DWORD
  Data:             0

Value 5
  Name:             MAXRETRIESPERPATH
  Type:             REG_DWORD
  Data:             0x3

Value 6
  Name:             MAXRETRIESPERIO
  Type:             REG_DWORD
  Data:             0x31
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

```
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
qldirect\Enum
Class Name:         <NO CLASS>
Last Write Time:    9/14/2005 - 12:38 PM
Value 0
  Name:             0
  Type:             REG_SZ
  Data:             Root\LEGACY_QLDIRECT\0000

Value 1
  Name:             Count
  Type:             REG_DWORD
  Data:             0x1

Value 2
  Name:             NextInstance
  Type:             REG_DWORD
  Data:             0x1
```

QI2300 Registry Parameters

```
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql2300
Class Name:         <NO CLASS>
Last Write Time:    9/14/2005 - 12:38 PM
Value 0
  Name:             ErrorControl
  Type:             REG_DWORD
  Data:             0x1

Value 1
  Name:             Group
  Type:             REG_SZ
  Data:             SCSI miniport

Value 2
  Name:             Start
  Type:             REG_DWORD
  Data:             0

Value 3
  Name:             Tag
  Type:             REG_DWORD
  Data:             0x28

Value 4
  Name:             Type
  Type:             REG_DWORD
  Data:             0x1

Value 5
  Name:             ImagePath
  Type:             REG_EXPAND_SZ
  Data:             system32\DRIVERS\ql2300.sys

Value 6
  Name:             DisplayName
  Type:             REG_SZ
  Data:             QLogic Fibre Channel SCSI Miniport
Driver (w32 IP)


Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql2300\Parameters
Class Name:         <NO CLASS>
Last Write Time:    5/25/2005 - 3:54 PM
Value 0
  Name:             BusType
  Type:             REG_DWORD
  Data:             0x6


Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql2300\Parameters\Device
Class Name:         <NO CLASS>
Last Write Time:    8/19/2005 - 4:00 PM
Value 0
  Name:             CreateInitiatorLU
  Type:             REG_DWORD
  Data:             0x1

Value 1
  Name:             DriverParameters
  Type:             REG_SZ
  Data:             UseSameNN=0;

Value 2
  Name:             BusType
  Type:             REG_DWORD
  Data:             0x6

Value 3
  Name:             MaximumSGList
  Type:             REG_DWORD
  Data:             0x21

Value 4
  Name:             NumberOfRequests
  Type:             REG_DWORD
  Data:             0x96


Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql2300\Parameters\PnpInterface
Class Name:         <NO CLASS>
Last Write Time:    6/3/2005 - 1:54 PM
Value 0
  Name:             5
  Type:             REG_DWORD
  Data:             0x1


Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql2300\Enum
Class Name:         <NO CLASS>
Last Write Time:    9/14/2005 - 12:38 PM
Value 0
  Name:             0
  Type:             REG_SZ
  Data:
PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&25f4d2
ac&0&3848

Value 1
  Name:             Count
  Type:             REG_DWORD
  Data:             0x6

Value 2
  Name:             NextInstance
  Type:             REG_DWORD
  Data:             0x6

Value 3
  Name:             1
  Type:             REG_SZ
  Data:
PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&25f4d2
ac&0&3948

Value 4
  Name:             2
  Type:             REG_SZ
  Data:
PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&25f4d2
ac&0&4048

Value 5
  Name:             3
  Type:             REG_SZ
  Data:
PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&25f4d2
ac&0&4148

Value 6
  Name:             4
  Type:             REG_SZ
  Data:
PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&9630b5
6&0&4850

Value 7
  Name:             5
  Type:             REG_SZ
  Data:
PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&9630b5
6&0&4950
```


© Copyright 2005 Hewlett-Packard Development Company, L.P.

Appendix D: 60-Day Space

© Copyright 2005 Hewlett-Packard Development Company, L.P.

TPC-C 60 Day Space Requirements						
Warehouses	**8,800**				TpmC	**109,633.00**
Table	Rows	Data KB	Index KB	Extra 5% KB	8hr Space	Total Space KB
Warehouse	8,800	**944**	**64**	50		1058
District	88,000	**9,784**	**88**	494		10366
Customer	264,000,000	**192,000,000**	**11,979,584**	10,198,979		214178563
History	264,000,000	**15,416,064**	**57,592**		3,377,163	15473656
New_order	79,200,000	**1,411,136**	**3,544**	70,734		1485414
Orders	264,000,000	**8,620,416**	**19,648**		4,523,149	8640064
Order_line	2,639,995,918	**173,114,488**	**407,736**		63,859,443	173522224
Item	100,000	**9,416**	**80**	475		9971
Stock	880,000,000	**281,600,000**	**593,864**	14,109,693		296303557
Total		672,182,248	13,062,200	24,380,425	71,759,756	709,624,873

	MB	
Dynamic Space	192,530	Sum of Data for Order, Orderline and History
Static Space	500,463	Sum of Data+Index+5%-Dynamic Space
Free Space	na	Total Allocated Spac - (Dynamic + Static Space)
Daily Growth	38,378	(Dynamic Space/(W*62.5))*tpmc
Daily Spread	-	(Free Space -1.5*Daily Growth) Zero Assumed
60 Day Space MB	2,803,117	
60 Day Space GB	2,737.42	GB
Log Size	368,000.00	MB
KB Per New Order	6.43	KB
8 hr log MB	330,209	MB
8 hr log GB	322.4696	GB

	MSSQL_misc_fg	MSSQL_cs_fg
	1058	
	10366	
		214178563
	18850819	
	1485414	
	13163213	
	237381667	
	9971	
		296303557
	270,902,508	510,482,120
files=	**7**	**7**
size=	**4,992,000**	**9,984,000**
Total=	34,944,000	69,888,000
8K blocks	279,552,000	559,104,000
	OK	OK

Space Usage	GB Needed	Disks Measured	GB Priced	Disk Size	Formatted Size	
60 Day Space DB	2,737.42	294	9,972.48	36.4GB	33.920	
			0.00			
			0.00			
Total DB			9,972.48			
8-hr log + mirror	644.9392	4	1117.56	72.8GB	67.84	
				300GB	279.39	
OS, Swap	3	2	67.84	36.4GB	33.920	
Total Storage	3,385.36	GB	11,157.88	GB		

© Copyright 2005 Hewlett-Packard Development Company, L.P.

tpmC	109,633.00									
	Data Before KB	Index Before KB	Data After KB	Index After KB	Data Grow KB	Index Grow KB	Total Grow KB	KB/New-Order	8-Hr Growth KB	8-Hr Growth MB
History	15,416,064	57,592	16,931,360	115,520	1,515,296	57,928	1,573,224	0.0642	3,377,163.44	3,298.01
Order	8,620,416	19,648	10,708,184	38,952	2,087,768	19,304	2,107,072	0.0860	4,523,148.97	4,417.14
Order-Line	173,114,488	407,736	202,456,352	814,272	29,341,864	406,536	29,748,400	1.2135	63,859,443.26	62,362.74
										70,077.89
	sum(*) Before		sum(*) After		Num New-					
d_next_o_id	264,088,000		288,602,386		24,514,386					
	Before MB		After MB		Grow MB			KB/New-Order	8-Hr Growth MB	8-Hr Growth GB
Log	19284.08		173109.20		153825.11			6.4255	330,208.89	322.47
								6,579.7007	bytes	
368000	5.2402401		47.040543							
Database tpcc log used (%)										

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Appendix E: Third Party Letters

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399

Tel 425 882 8080
Fax 425 936 7329
http://www.microsoft.com/

Microsoft

September 12, 2005

Hewlett-Packard Company
David Adams
20555 SH 249
MS 150402
Houston, TX 77040

Mr. Adams:

Here is the information you requested regarding pricing for several Microsoft products to be used in conjunction with your TPC-C benchmark testing.

All pricing shown is in US Dollars ($).

Part Number	Description	Unit Price	Quantity	Price
810-00845	**SQL Server 2005 Enterprise (x86) Edition** *Per Processor Licensing* *Discount Schedule: Open Program - Level C* *Unit Price reflects a 15% discount from the retail unit price of $23,424.*	$19,909	2	$ 39,818
P72-00264	**Windows Server 2003, Enterprise Edition** *Server License Only - No CALs* *Discount Schedule: Open Program - No Level* *Unit Price reflects a 42% discount from the retail unit price of $3,999.*	$2,334	1	$719
C11-00821	**Windows 2000 Server** *Server License Only - No CALs* *Discount Schedule: No Level* *Unit Price reflects a 8% discount from the retail unit price of $799.*	$738	4	$2,952
254-00170	**Visual C++ Standard Edition** *Discount Schedule: No Discounts Applied*	$109	1	$109
	Microsoft Problem Resolution Services *Professional Support* *(1 incident)*	$245	1	$245

Some products may not be currently orderable but will be available through Microsoft's normal distribution channels by November 8, 2005.

This quote is valid for the next 90 days.

If we can be of any further assistance, please contact Jamie Reding at (425) 703-0510 or jamiere@microsoft.com.

© Copyright 2005 Hewlett-Packard Development Company, L.P.

Reference ID: PCguzi0523053436.
Please include this Reference ID in any correspondence regarding this price quote.

© Copyright 2005 Hewlett-Packard Development Company, L.P.