



Hewlett-Packard Company

TPC Benchmark™ C
Full Disclosure Report
for
HP ProLiant DL385 G1/32GB/ Opteron 2.8GHz
using
Microsoft SQL Server 2005 Enterprise Edition
and
Windows Server 2003, Enterprise Edition

**First Edition
Submitted for Review
September 30, 2005**

First Edition – September 2005

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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.

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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.

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:

76,214tpmC
USD \$3.91per tpmC

The availability date is November 8, 2005.

Standard and Executive Summary Statements

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

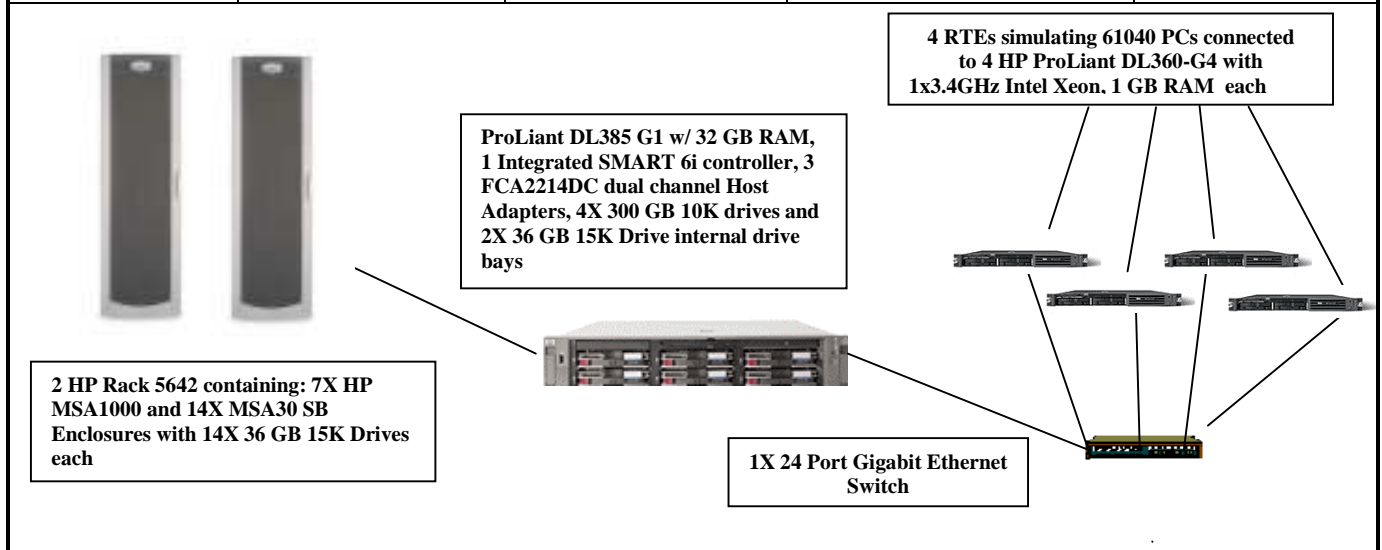
Auditor

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

Hewlett-Packard Company	HP ProLiant DL385 G1 2.8GHz /2P	TPC-C Rev. 5.4
	C/S with 4 HP ProLiant DL360R	Report Date: Sept. 30, 2005

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$297,460 USD	76,214	\$3.91 USD	Nov. 8, 2005

Processors	Database Manager	Operating System	Other Software	Number of Users
2 Opteron 254 2 processor 2.8GHz (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+	61040



	Server		Each Client	
System Components	Quantity	Description	Quantity	Description
Processor	2	Opteron 254 2.8GHz w/ 1MB Cache	1	3.4 GHz Intel Xeon w/ 1MB L2 cache
Memory	8	4 GB DDR	2	512MB
Disk Controllers	1	Integrated SMART 6i FCA2214DC dual channel Host Adapters	1	Integrated SMART 6i Array Controller
Disk Drives	4	300 GB SCSI Drive	2	36.4 GB SCSI Drive
Total Storage	296	36.4 GB SCSI Drive		72.8 GB
		11,157.88 GB		

Hewlett-Packard		HP ProLiant DL385/G1/32GB/2.8GHz			TPC-C Rev. 5.4		
Company		Client/Server			Report Date:		30-Sep-05
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	3 yr. Maint. Price	
Server Hardware							
Brand Pricing							
HP DL385G1 2800 US Svr/integrated 6i controller/2 gigabit NICs	398370-001	1	3,199	1	3,199		
HP 2.8/1000-1M DL385G1 Kit	399087-B21	1	1,099	1	1,099		
HP 8GB Reg PC2700 2x4GB Memory	395400-B21	1	7,499	4	29,996		
HP Storageworks MSA 30 5B Storage	302969-B21	1	2,829	14	39,606		
MSA SAN Switch 2/B	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 6642 Unassembled Rack	358254-B21	1	689	2	1,378		
UPS R1500 XR Low Voltage US	204404-001	1	866	1	866		
36GB 15Krpm U320 UMI HDD	286776-B22	1	299	296	88,504		
HP 300GB 10K U320 Pluggable Hard Drive	350964-B22	1	969	4	3,956		
HP 3y 4h 24x7 ProLiant DL385x HW Support	U4545E	1	949	1		949	
MSA1000 Carepaq 3yr 4hr 24x7	402164-002	1	3,536	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	PF997AAA#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	229,456	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 DL380G4 X3 4GHz 1P 1GB SCSI US Rck Server	354571-001	1	2,599	4	10,396		
- Dual Integrated Gigabit NIC, Integrated Smart Array Controller 6i							
HP s7540 17in. CRT Monitor	PF997AAA#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	C11-00621	Microsoft	2	736	4	2,952	Incl. Above
					Subtotal	2,952	0
User Connectivity							
HP ProCurve Switch 2824	J4903A#ABA	1	2,499	1	2,499		
HP CP for HP ProCurve Networking products 3 Yr 4 hr/24x7	U2858E	1	1,000	1		1,000	
					Subtotal	2,499	1,000
Large Purchase and Net 30 discount (See Note 1)	16.0%	1				(539,264)	(58,783)
					Total	\$251,348	\$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: \$297,460 USD		
					tpmC Rating: 76,214		
					\$ / tpmC: \$3.91 USD		
Pricing: 1=HP Direct 800-203-0748 2=Microsoft							
Note 1 = Discount based on HP Direct guidance 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.							

Numerical Quantities Summary

MQTH, Computed Maximum Qualified Throughput

76,214 tpmC

Response Times (in seconds)	Average	90%	Maximum
New-Order	0.43	0.70	6.33
Payment	0.41	0.69	8.84
Order-Status	0.41	0.69	5.91
Delivery (interactive portion)	0.10	0.11	0.25
Delivery (deferred portion)	0.15	0.18	3.47
Stock-Level	0.41	0.69	5.68
Menu	0.10	0.11	0.45

Transaction Mix, in percent of total transaction

New-Order	44.89%
Payment	43.05%
Order-Status	4.04%
Delivery	4.01%
Stock-Level	4.01%

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	18.19/120.53
Payment	3.02/0.00	3.03/12.06	3.19/120.53
Order-Status	2.02/0.00	2.03/10.07	2.19/100.62
Delivery (interactive)	2.02/0.00	2.03/5.07	2.19/50.51
Stock-Level	2.02/0.00	2.03/5.06	2.19/50.53

Test Duration

Ramp-up time	25 minutes
Measurement interval	120 minutes
Transactions (all types) completed during measurement interval	20,280,540
Ramp down time	30 minutes

Checkpointing

Number of checkpoints	4
Checkpoint interval	30 minutes

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 but 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.

Figure 1 Benchmarked Configuration

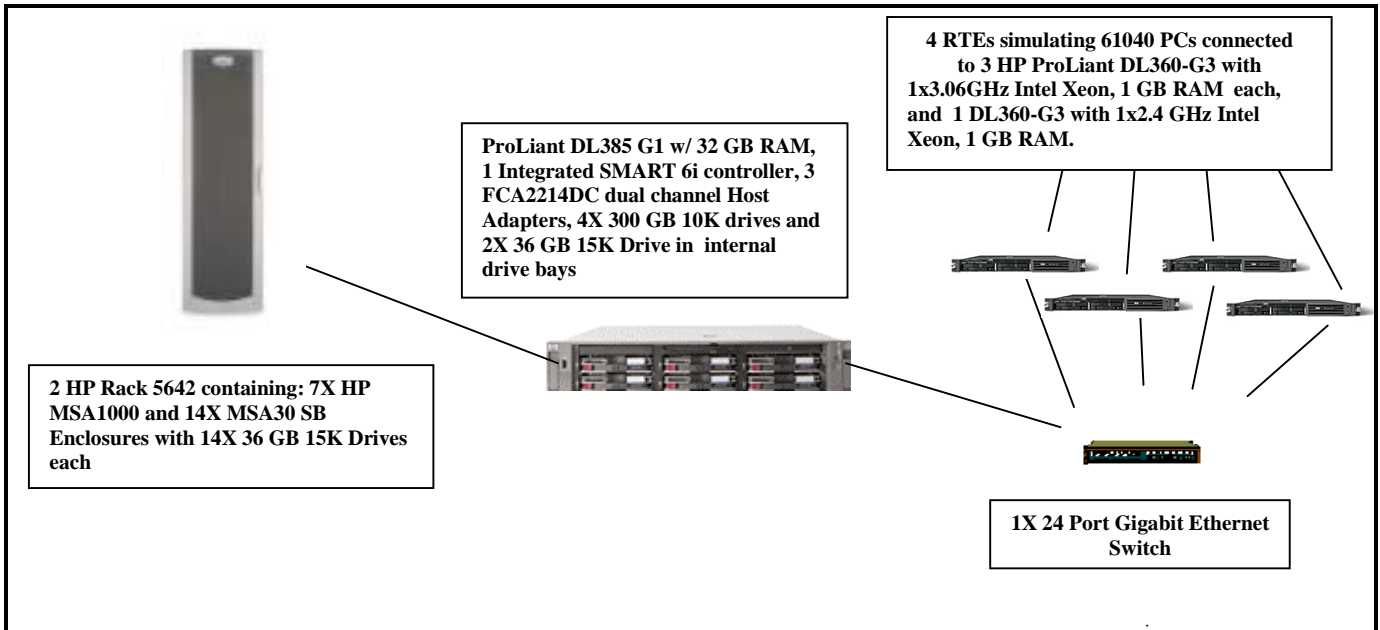
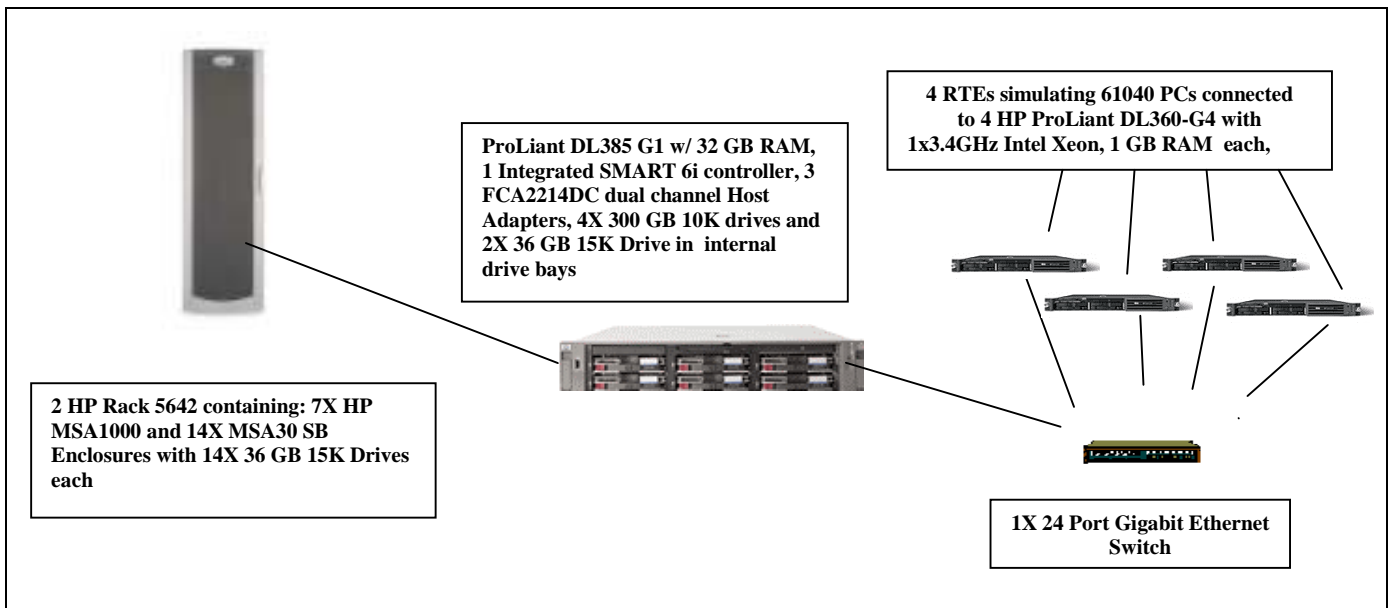


Figure 2 Priced Configuration



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

<u>LOGICAL DRIVE C:</u> Microsoft Windows Server 2003, Enterprise Edition	<u>Total Capacity = 33.91 GB</u>	<u>RAID 1</u>
<u>LOGICAL DRIVE E:</u> MSSQL_tpc_log	<u>Total Capacity = 558.78 GB</u>	<u>RAID 0+1</u>

FCA2214DC Port 1, Slot 1, Array A

<u>LOGICAL DRIVE F:</u> MSSQL_cs1	<u>Total Capacity = 78.12 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE M:</u> MSSQL_misc1	<u>Total Capacity = 39.06 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE W:</u> Tpcback1	<u>Total Capacity = 653.67 GB</u>	<u>RAID 0+1</u>

FCA2214DC Port 2, Slot 1, Array A

<u>LOGICAL DRIVE G:</u> MSSQL_cs2	<u>Total Capacity = 78.12 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE N:</u> MSSQL_misc2	<u>Total Capacity = 39.06 GB</u>	<u>RAID 0</u>

FCA2214DC Port 1, Slot 2, Array A

<u>LOGICAL DRIVE H:</u> MSSQL_cs3	<u>Total Capacity = 78.12 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE O:</u> MSSQL_misc3	<u>Total Capacity = 39.06 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE X:</u> Tpcback2	<u>Total Capacity = 653.67 GB</u>	<u>RAID 0+1</u>

FCA2214DC Port 2, Slot 2, Array A

<u>LOGICAL DRIVE I:</u> MSSQL_cs4	<u>Total Capacity = 78.12 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE P:</u> MSSQL_misc4	<u>Total Capacity = 39.06 GB</u>	<u>RAID 0</u>

FCA2214DC Port 1, Slot 3, Array A		
<u>LOGICAL DRIVE J:</u> MSSQL_cs5	<u>Total Capacity = 78.12 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE Q:</u> MSSQL_misc5	<u>Total Capacity = 39.06 GB</u>	<u>RAID 0</u>
FCA2214DC Port 1, Slot 3, Array A		
<u>LOGICAL DRIVE K:</u> MSSQL_cs6	<u>Total Capacity = 78.12 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE R:</u> MSSQL_misc6	<u>Total Capacity = 39.06 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE Y:</u> Tpccback3	<u>Total Capacity = 653.67 GB</u>	<u>RAID 0+1</u>
FCA2214DC Port 2, Slot 3, Array A		
<u>LOGICAL DRIVE L:</u> MSSQL_cs7	<u>Total Capacity = 78.12 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE S:</u> MSSQL_misc7	<u>Total Capacity = 39.06 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE Z:</u> Tpccback4	<u>Total Capacity = 653.67 GB</u>	<u>RAID 0+1</u>

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 G4 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.

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.

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	60.01%
Transaction Mix	New Order	44.89%
	Payment	43.05%
	Order status	4.04%
	Delivery	4.01%
	Stock level	4.01%

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.

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.

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 6104 warehouses under a full load of 61040 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 61040 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.

Instantaneous Interruption and Loss of Memory

Because loss 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 6104 warehouses under a full load of 61,040 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 61,040 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.

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	6104
District	61,040
Customer	188,120,000
History	183,120,000
Orders	183,120,000
New Order	54,936,000
Order Line	1,831,190,553
Stock	610,400,000
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.

Section 1.2 of this report details the distribution of database tables across all disks. The code that creates the file groups 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/I, 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.

Clause 5 Related Items

Throughput

Measured tpmC must be reported

Measured tpmC 76,214tpmC
Price per tpmC USD \$3.91per 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	90 th %	Maximum
New-Order	0.43	0.70	6.33
Payment	0.41	0.69	8.84
Order-Status	0.41	0.69	5.91
Interactive Delivery	0.10	0.11	0.25
Deferred Delivery	0.15	0.18	3.47
Stock-Level	0.41	0.69	5.68
Menu	0.10	0.11	0.45

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	18.19
Payment	3.02	3.03	3.19
Order-Status	2.02	2.03	2.19
Interactive Delivery	2.02	2.03	2.19
Stock-Level	2.02	2.03	2.19

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	100.62
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.

Figure 2 New Order Response Time Distribution

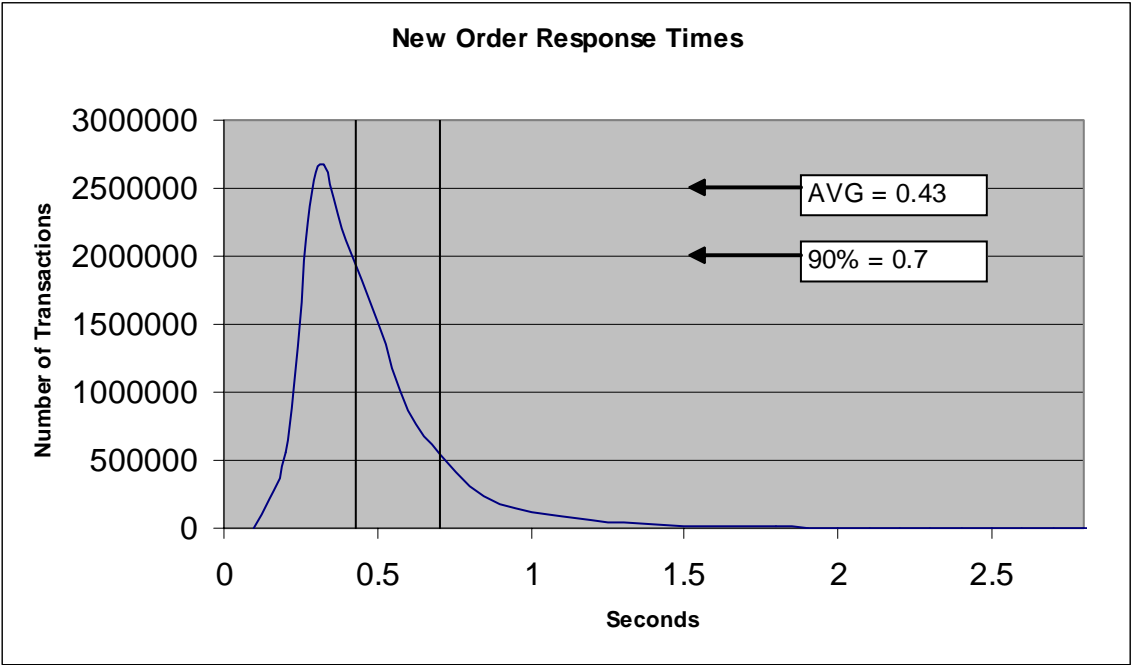


Figure 3 Payment Response Time Distribution

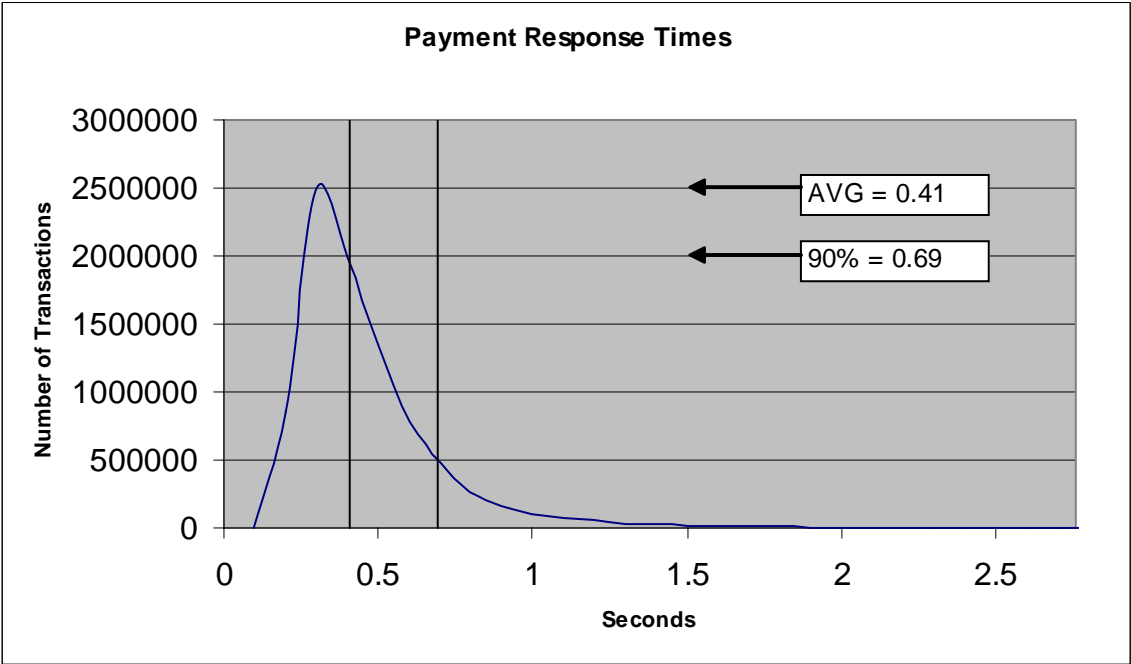


Figure 4 Order Status Response Time Distribution

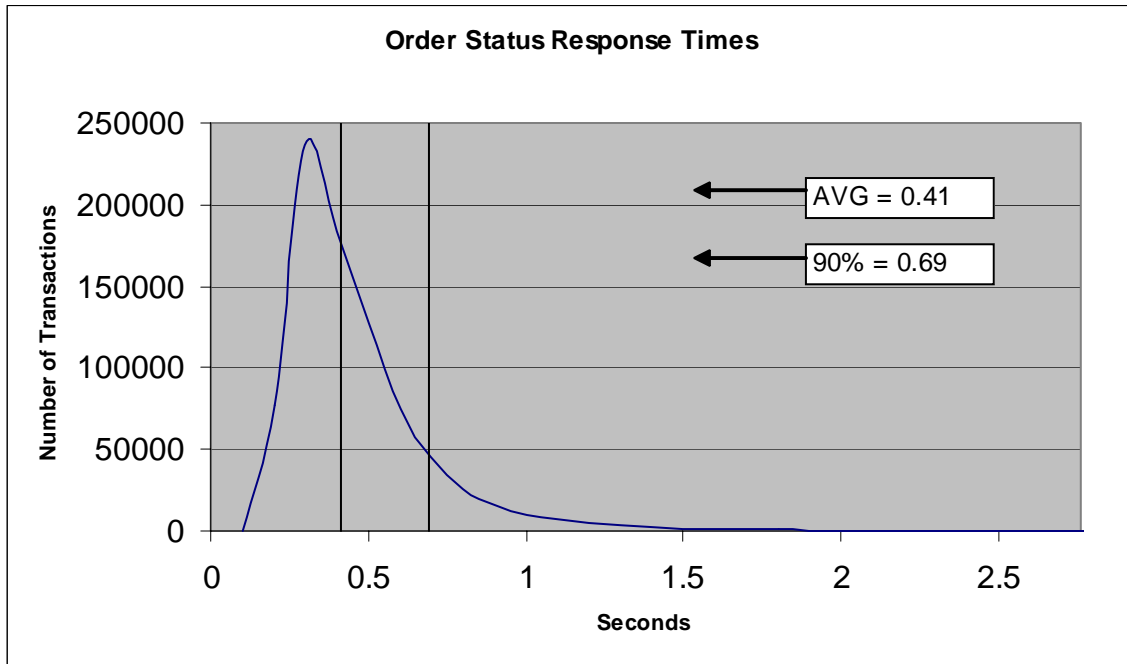


Figure 5 Delivery Response Time Distribution

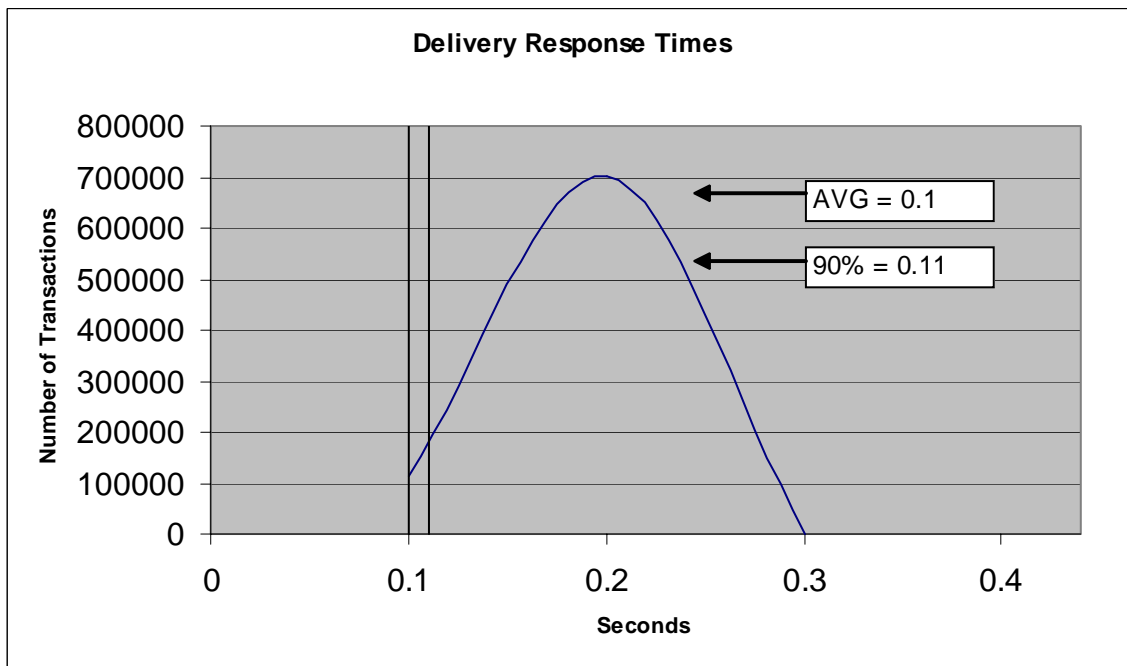


Figure 6 Stock Level Response Time Distribution

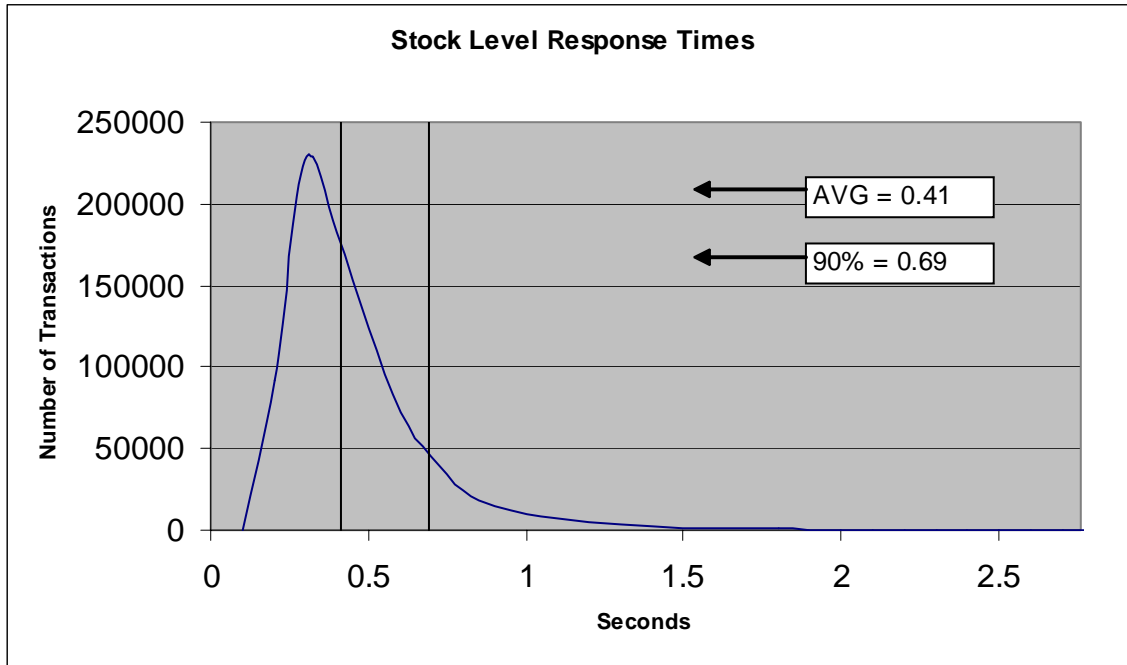


Figure 7 Response Time vs. Throughput

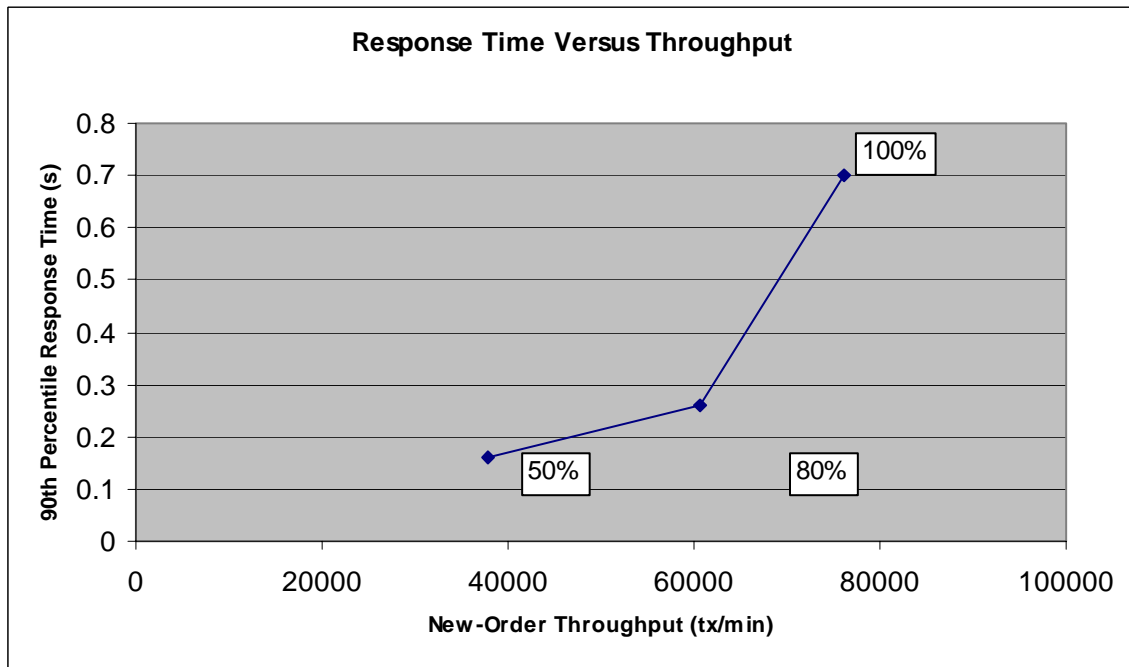


Figure 8 New Order Think Time Distribution

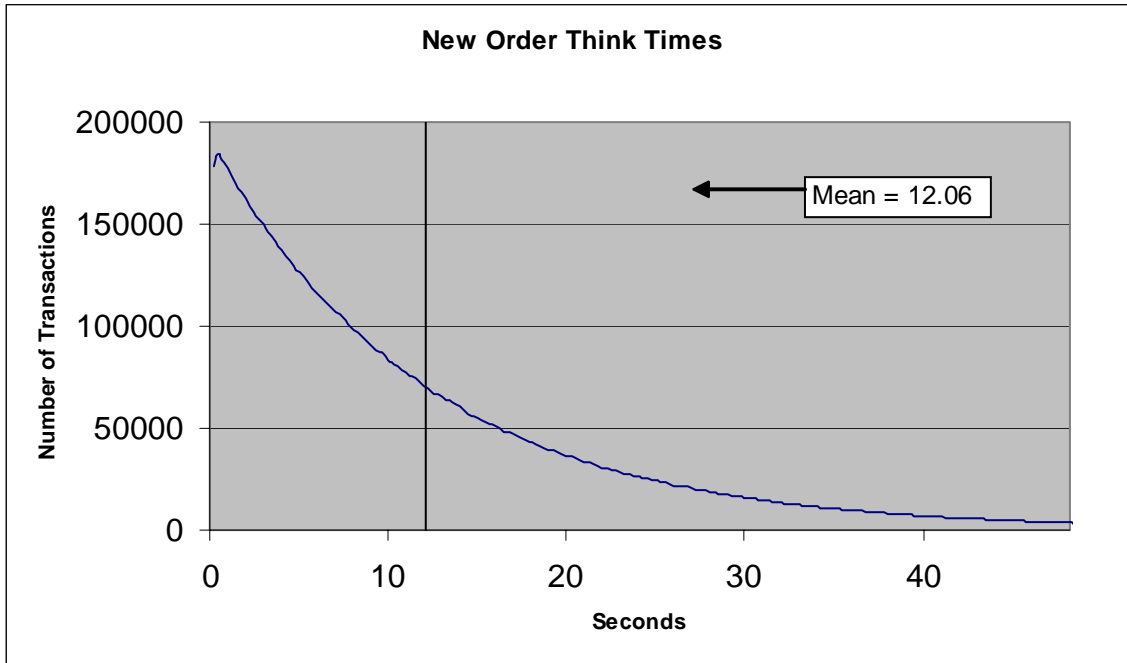
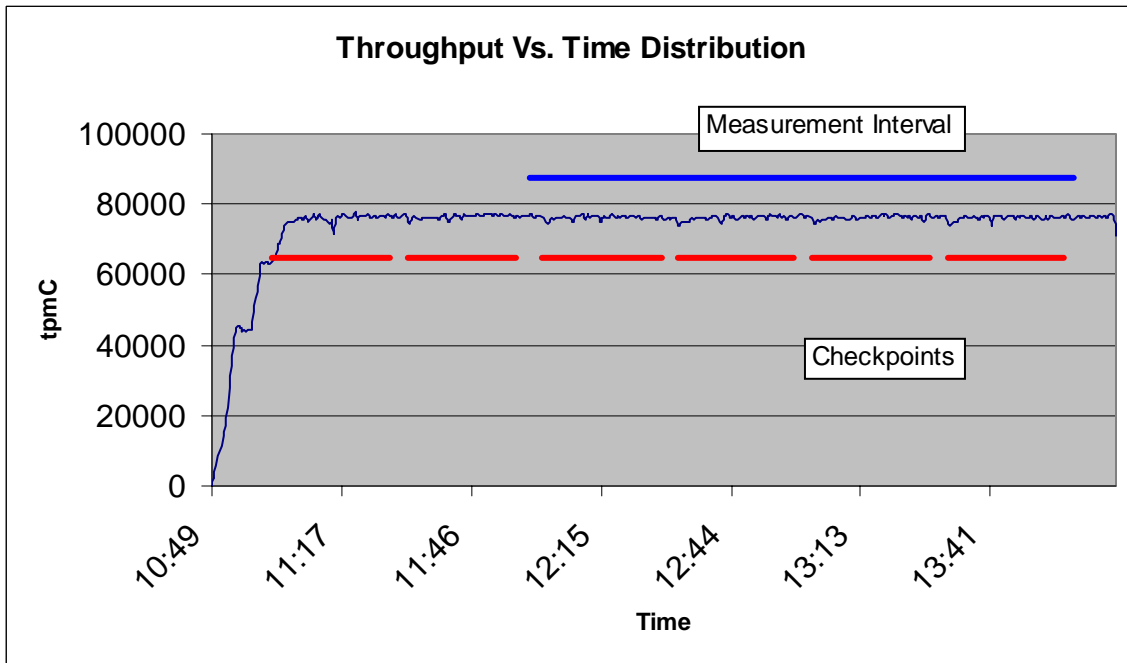


Figure 9 Throughput vs. Time Distribution



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 32767 and 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.

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	60.01%
Delivery	Skipped transactions (interactive)	0
	Skipped transactions (deferred)	0
Order Status	Accessed by last name	60.01%
Transaction Mix	New Order	44.89%
	Payment	43.05%
	Order status	4.04%
	Delivery	4.01%
	Stock level	4.01%

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 26 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
12:02:29.43 p.m.	26 minutes, 23 seconds
12:32:26.48 p.m.	25 minutes, 48seconds
13:02:23.43 p.m.	26 minutes, 7 seconds
13:32:20.43 p.m.	25 minutes, 54 seconds

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 1Gbps, 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.

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 | 76,214tpmC |
| • Price per tpmC | USD \$3.91 per 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.

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



PERFORMANCE METRICS INC.
TPC Certified Auditors

September 30, 2005

Mr. Paul Cao
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 G1 with:				
CPU's	Memory	Disks (total)	90% Response	TpmC
2 AMD Opteron @2.8GHz	Main: 32 GB	296 @36GB 4 @ 300GB	0.70	76,214
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 6,104 warehouses, all of which were active during the measured interval.
- The ACID properties were successfully demonstrated.
- Input data was generated according to the specified percentages.
- Eight hours of mirrored log space was present on the tested system.

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TPC Certified Auditors

- 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:

HP ProLiant DL360 G3 were used for the client front end systems. These systems are no longer available. ProLiant DL360 G4 were substituted in the priced configuration. This pricing is compliant with the substitution requirements.

Sincerely,



Lorna Livingtree
Auditor

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
#include <idlbase.h>
#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
);
#endif
```

```
/* [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;
#ifdef __cplusplus
extern "C" {
#endif
#pragma extern_model __save
#pragma extern_model __common_block __shr
#ifdef IDL_PROTOTYPES
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;
#ifdef __cplusplus
#pragma extern_model __restore
#endif
#ifdef __cplusplus
}
#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
#include <idlbase.h>
#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
#endif
);
#endif
```

```

#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_GetAppId)(
#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
#endif
#endif

```

```

}
#else
#endif
#endif

```

orderstatus.h

```

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

#ifdef __cplusplus
extern "C" {
#endif

#ifdef nbase_v0_0_included
#include "dce\nbase.h"
#endif

#ifdef trpcImports_v0_0_included
#include "trpc\trpcImports.h"
#endif

#ifdef mon_handle_v1_0_included
#include "tpm/mon\mon_handle.h"
#endif

#ifdef 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_GetAppId(
#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_GetAppId)(
#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
#endif
#endif

#ifdef __cplusplus
}
#endif

```

payment.h

```

/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifdef _payment_v1_0_included
#define _payment_v1_0_included
#endif
#include 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 _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
);
};
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
#endif
#include <dce\idlbase.h>
#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

```

```

/* [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_time;
char time_str[30];
char line_prefix[50];
va_list ap;

va_start(ap, format);

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

get_prefix(line_prefix);

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

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,
errorMsg);
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 milliseconds 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

```

```

* 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());
    } else {
        pClntInfo = NULL;
        /* 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(ERROROUT, \
        "%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); \
    } \
}

```

```

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_marshallng option to TPCC
 *
 * - Added INVALID_TRAN_TYPE return code
 * [from r1.16 by delta oz-16070-TPCC-add-null-and-
marshalling-test, r1.1]

```



```

*
* 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,

```

```

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

```

#ifdef 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

#ifdef 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

```

```

*
* 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, 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);
    }
}

```

```

        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.%2d.%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_THREAD_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);

```

```

// 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 );
}
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_THREAD_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 = CheckWWWWebService();
    if ( bSvcRunning )
    {
        SetDlgItemText( hDlg, IDC_STATUS,
"Stopping Web Service." );
        SendDlgItemMessage( hDlg,
IDC_PROGRESS1, PBM_STEPIT, 0, 0 );
        UpdateDialog( hDlg );
        StopWWWWebService();
    }

```

```

        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 than 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 )

```

```

        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 provided 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\\Paramet
ers", 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);
    }
}

```

```

        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( "MSVCR70",
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;

```



```

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
                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 CheckWWWWebService(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:

```

```

        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

```

```

#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_THREAD_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

#ifdef !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_THREAD_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

```

```

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
Successful", 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
"..\\..\\sapi_dll\\bin\\tpcc.dll"

#####
//
// Version
//
VS_VERSION_INFO VERSIONINFO
FILEVERSION 0,4,50,0
PRODUCTVERSION 0,4,50,0
FILEFLAGSMASK 0x3fL
#ifdef DEBBUG
FILEFLAGS 0x1L
#else
FILEFLAGS 0x0L
#endif
#endef
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"

```

```

        VALUE "ProductVersion", "0, 4, 20, 0"
    END
END
BLOCK "VarFileInfo"
BEGIN
    VALUE "Translation", 0x409, 1200
END
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_MSVCRT70        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.cp

p

```

/* 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;

```

```

        _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 (wcsncmp(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";

```

```

remove);
        bstrTemp2 = "dummy string (do not
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,

```

```

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

```

license.txt

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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(LPCTSTR lpszMsg);

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

```

        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);

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

    struct COM_DATA
    {
        int retval;
        int error;
        union
        {
            NEW_ORDER_DATA
            PAYMENT_DATA
            DELIVERY_DATA
            STOCK_LEVEL_DATA
        }
    };
};

```

```

ORDER_STATUS_DATA
OrderStatus;
    };
};

////////////////////////////////////
////////////////////////////////////
// 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;}
};

```

```

        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
 */

```

```

* 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_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_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:

```

```

*      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,
ERROR_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 ERROROUT errtpcc

/*initialization status */
#define INIT_SUCCESS 0

```

```

#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 ERROROUT_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
 */
#ifdef __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();
#ifdef __cplusplus
}
#endif

#endif /* MON_CLIENT_H */

```

neworder.h

```

#ifdef TRANSARC_neworder_h
#define TRANSARC_neworder_h

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

#include <encina/c_prologue.h>

#ifdef BUILDDDL
#define DLLEXPORT __declspec( dllexport )
#else
#define DLLEXPORT extern
#endif

#ifdef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define neworder_v1_0_c_ifspec
#define neworder_v1_0_c_ifspec
#define neworder_v1_0_s_ifspec
#define 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

```

#ifdef TRANSARC_orderstatus_h
#define TRANSARC_orderstatus_h

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

#include <encina/c_prologue.h>

#ifdef BUILDDDL
#define DLLEXPORT __declspec( dllexport )
#else
#define DLLEXPORT extern
#endif

#ifdef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define orderstatus_v1_0_c_ifspec
#define orderstatus_v1_0_c_ifspec
#define orderstatus_v1_0_s_ifspec
#define 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;

```

```

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
#ifdef TRANSARC_payment_h

```

```

#define TRANSARC_payment_h

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

#include <encina/c_prologue.h>

#ifdef BUILDDDL
#define DLLEXPORT __declspec( dllexport )
#else
#define DLLEXPORT extern
#endif

#ifdef 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.c
pp
/* 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

```

```

*
registry TRUE = error reading
*/
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 ( !strcmp(szTmp,
szDBNames[ODBC]) )
            pReg->eDB_Protocol =
ODBC;
        else if ( !strcmp(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 ( !strcmp(szTmp,
szTxnMonNames[TUXEDO]) )
            pReg->eTxnMon = TUXEDO;
        else if ( !strcmp(szTmp,
szTxnMonNames[ENCINA]) )
            pReg->eTxnMon = ENCINA;
        else if ( !strcmp(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 ( !strcmp(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 ( RegQueryValueEx(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;
}

```



```

        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_THREAD_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

```

#ifdef TRANSARC_stocklevel_h
#define TRANSARC_stocklevel_h

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

#include <encina/c_prologue.h>

#ifdef BUILDDDL
#define DLLEXPORT __declspec( dlllexport )
#else
#define DLLEXPORT extern
#endif

#ifdef 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 */

```

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
definitions 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
 *
 * ul_reason_for_call reason for call
 * LPVOID
 *
 * lpReserved
 * reserved for future use
 *
 * RETURNS: BOOL FALSE
 * errors occurred in
 * initialization
 *
 * TRUE
 * successfully initialized
 */
DLL
```

```

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(&TermCriticalSection);

                ReadTPCCRegistrySettings( &Reg )

                if (
                    throw new CWBCLNT_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 CWBCLNT_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 CWBCLNT_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 CWBCLNT_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 CWBCLNT_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 CWBCLNT_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 CWBCLNT_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 CWBCLNT_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 CWBCLNT_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 CWBCLNT_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 CWBCLNT_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-yyymmdd-
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 CWBCLNT_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;

```

```

    }
    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:
                    case
NEW_ORDER_FORM:
                        ProcessNewOrderForm(pECB, TermId,
szBuffer);
                        break;
                    case
PAYMENT_FORM:
                        ProcessPaymentForm(pECB, TermId, szBuffer);
                        break;
                    case
DELIVERY_FORM:

```

```

        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);
    sprintf(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,
(LPWORD) &dwSize, (LPWORD)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;

```

```

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(&hConnectCriticalSection);

            Sleep(Reg.dwConnectDelay);

            pTxn =
pCTPCC_ODBC_new( Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword,

            szMyComputerName, Reg.szDbName,

            Reg.szSPPrefix,
Reg.bCallNoDuplicatesNewOrder );

            LeaveCriticalSection(&hConnectCriticalSection);
        }
    }
    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(&DelBuffCriticalSection);
            delivery =
* (pDelBuff+dwDelBuffBusyIndex);
            dwDelBuffFreeCount++;
            dwDelBuffBusyIndex++;
            if
(dwDelBuffBusyIndex == dwDelBuffSize) // wrap-
around if at end of buffer
            {
                dwDelBuffBusyIndex = 0;
            }

            LeaveCriticalSection(&DelBuffCriticalSection);

            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-
            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)

```

```

        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;
        (pDelBuff+dwDelBuffFreeIndex)-
        = 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
relevant 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;
        }
    }
}

```



```

    }
}

/* 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 )
)

```

```

        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 iTTotal;

    EnterCriticalSection(&TermCriticalSection);

    iTTotal = 0;
    for(i=0; i<Term.iNumEntries; i++)
    {
        if (Term.pClientData[i].iNextFree
== -1)

            iTTotal++;
    }

    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>"
        , iTTotal );
    }

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,

```

```

"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_TOO_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*\"."
},
}

```

```

        {
            ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
            "Stock Level; missing Threshold key
        }",
        {
            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 key
 *
 * value to look for *pKey char key
 *
 * *pValue char
 *
 * value character array into which to place key's
 *
 * * iMax int
 *
 * maximum length of key value array.
 *
 * err WEBERROR
 *
 * error value to throw
 *
 * RETURNS: nothing.
 *
 * ERROR: if (the pKey value is not found)
 * then
 *
 * (err == 0) if
 *
 * return (empty string)
 *
 * else
 *
 * throw CWBCLNT_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 CWBCLNT_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 key
 *
 * value to look for *pKey char key
 *
 * * 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 CWBCLNT_ERR(err)
 *
 * else
 *
 * return 0
 *
 * else if (non-
 * numeric char found) then
 *
 * if
 *
 * (NotIntErr != NO_ERR) then
 *
 * throw CWBCLNT_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.
 */

```

```

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 CWBCLNT_ERR(
NoKeyErr );
        return 0;
    }

    *pQueryString = ptr;
    return atoi(ptr0);

ErrorNoKey:
    if (NoKeyErr != NO_ERR)
        throw new CWBCLNT_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 CWBCLNT_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);

```

```

        throw new CWBECLNT_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=\"TERMINID\" 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=\"TERMINID\" 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=\"TERMINID\" 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> <BR></PRE><HR>"

```

```

                "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Process\">"
                "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Menu\">"
            }
            else
            {
                sprintf(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>";

    if (!bInput)
        assert( pNewOrderData-
>exec_status_code == eOK || pNewOrderData-
>exec_status_code == eInvalidItem );

    bValid = (bInput || (pNewOrderData-
>exec_status_code == eOK));

```

```

        c = sprintf(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=\"TERMINID\" 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 += sprintf(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 += sprintf(szForm+c,
            "Warehouse: %6.6d District: %2.2d
Date: ",
            pNewOrderData->w_id,
            pNewOrderData->d_id);
        if ( bValid )
        {

```

```

        c += sprintf(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 += sprintf(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 += sprintf(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;
        strcpy( szForm+c, szBR, (15-i)*5
);
        c += (15-i)*5;
        if ( bValid )
            c += sprintf(szForm+c,
"Execution Status: Transaction committed.
Total: %$8.2f ",
        pNewOrderData->total_amount);
        else
            c += sprintf(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 = sprintf(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=\"TERMINID\" 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 += sprintf(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 += sprintf(szForm+c,
        "%6.6d"
        "
        <BR> <BR>Warehouse:
District: <INPUT NAME=\"DID*\" SIZE=1><BR> <BR> <BR>
<BR> <BR>"

```



```

"Customer: <INPUT
NAME="\CID*" SIZE=4>
"Customer: <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 += sprintf(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_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 += sprintf(szForm+c,
" %-20s %-2s
%5.5s-%4.4s Phone: %6.6s-%3.3s-%3.3s-%4.4s<BR>
<BR>",
pPaymentData->c_city,
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 += sprintf(szForm+c,
"Customer: %5.5s-%4.4s
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,
"
<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>";
c = sprintf(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="\TERMINID\" 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 )
{

```

```

        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:
Number:<BR>"
                "Carrier-
Supply-W Item-Id
Delivery-Date<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 += sprintf(szForm+c,
                "District: %2.2d<BR>"
                "Customer: %4.4d
Name: %-16s %-2s %-16s<BR>",
                pOrderStatusData->d_id,
                pOrderStatusData->c_first, pOrderStatusData->c_middle,
                pOrderStatusData->c_last);
                c += sprintf(szForm+c, "Cust-
Balance: $%9.2f<BR> <BR>",
                pOrderStatusData->c_balance);
                c += sprintf(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
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);
                strcpy( 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 = sprintf(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=\"TERMINID\" 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
                {
                        sprintf( 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> </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>"
                , pDeliveryData-
            }
            (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;
            }

```

```

    }
    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 CWBCLNT_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 client
             lpszQueryString 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]
=
"SP03*", "SP04*", { "SP00*", "SP01*", "SP02*",
"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++)
    {
        GetIntKeyValue(&ptr, szSP[i], szTmp,
sizeof(szTmp), ERR_NEWORDER_MISSING_SUPPW_KEY);
        if ( szTmp[0] )
        {
            if ( !IsNumeric(szTmp)
)
                throw new
CWBCLNT_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
CWBCLNT_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
CWBCLNT_ERR( ERR_NEWORDER_QTY_RANGE );

            items++;
        }
        else
        {
            // nothing entered for
supply warehouse, so item id and qty must also be
blank
            GetIntKeyValue(&ptr,
szIID[i], szTmp, sizeof(szTmp),
ERR_NEWORDER_MISSING_IID_KEY);
            if ( szTmp[0] )
                throw new
CWBCLNT_ERR( ERR_NEWORDER_ITEMID_WITHOUT_SUPPW );

            GetIntKeyValue(&ptr,
szQty[i], szTmp, sizeof(szTmp),
ERR_NEWORDER_MISSING_QTY_KEY);
            if ( szTmp[0] )
                throw new
CWBCLNT_ERR( ERR_NEWORDER_QTY_WITHOUT_SUPPW );
        }
    }
}

```

```

        if ( items == 0 )
            throw new CWBCLNT_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          client
                lpszQueryString browser http command string
                *pPaymentData  pointer to
                PAYMENT_DATA   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 CWBCLNT_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 CWBCLNT_ERR(
ERR_PAYMENT_MISSING_CID_CLT );

        _strupr( szTmp );
        if ( strlen(szTmp) >
LAST_NAME_LEN )
            throw new CWBCLNT_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 CWBCLNT_ERR(
ERR_PAYMENT_CID_AND_CLT );
    }

    GetKeyValue(&ptr, "HAM*", szTmp,
sizeof(szTmp), ERR_PAYMENT_MISSING_HAM_KEY);
    if ( !IsDecimal(szTmp) )
        throw new CWBCLNT_ERR(
ERR_PAYMENT_HAM_INVALID );
    pPaymentData->h_amount = atof(szTmp);
    if ( pPaymentData->h_amount >= 10000.00 ||
pPaymentData->h_amount < 0 )
        throw new CWBCLNT_ERR(
ERR_PAYMENT_HAM_RANGE );
}

/* FUNCTION: GetOrderStatusData
 *
 * PURPOSE:      This function extracts and
validates the payment form data from an http command
string.
 *
 * ARGUMENTS:    LPSTR          client
                lpszQueryString browser http command string
                *pPaymentData  pointer to
                PAYMENT_DATA   payment data structure
 */

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 CWBCLNT_ERR(
ERR_ORDERSTATUS_MISSING_CID_CLT );

            _strupr( szTmp );
            if ( strlen(szTmp) >
LAST_NAME_LEN )
                throw new CWBCLNT_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 CWBCLNT_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 CWBCLNT_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.
 *

```

```

* 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;
//synchronization 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;
//synchronization id
    CLIENTDATA
    *pClientData;
//pointer to
allocated client data
} TERM;

```

```

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
engstat.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);

```

```

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"

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

#ifdef _WIN32
LANGUAGE LANG_ENGLISH, SUBLANG_ENGLISH_US
#pragma code_page(1252)
#endif // _WIN32

#ifdef _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
#endif // APSTUDIO_INVOKED

#ifdef _WIN32
//
// English (U.S.) resources
//
#endif // _WIN32

#ifdef APSTUDIO_INVOKED
//
// Generated from the TEXTINCLUDE 3 resource.
//
//
// not APSTUDIO_INVOKED
//

//
//

```

tpcc_com.cpp

```

/* FILE: TPCC_COM.CPP
* Microsoft
* TPC-C Kit Ver. 4.20.000
* Copyright
* Microsoft, 1999

```



```

*           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
definitions 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 );

```

```

        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.
#ifdef DllDecl
#define DllDecl __declspec( dllimport )
#else
#define DllDecl
#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;

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; };

```

```

        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.c pp

```

/* 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 definations 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
            }
        }
    }
}

```

```

        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"));

        _sntprintf(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="

```

```

        },
        { ERR_GETPROCADDR_FAILED,
          "Could not map proc in DLL. GetProcAddress. 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(&hConnectCriticalSection);

        Sleep(Reg.dwConnectDelay);
    }

    if (m_pTxn)
    {
        delete m_pTxn;
    }

    if (Reg.dwConnectDelay > 0)
    {
        LeaveCriticalSection(&hConnectCriticalSection);
    }

    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(&hConnectCriticalSection);

                Sleep(Reg.dwConnectDelay);
            }

            delete m_pTxn;
        }

        if (Reg.dwConnectDelay > 0)
        {
            LeaveCriticalSection(&hConnectCriticalSection);
        }

        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(&hConnectCriticalSection);

                    Sleep(Reg.dwConnectDelay);
                }

                delete m_pTxn;
            }

            if (Reg.dwConnectDelay > 0)
            {
                LeaveCriticalSection(&hConnectCriticalSection);
            }

            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(&hConnectCriticalSection);

            Sleep(Reg.dwConnectDelay);
        }

        delete m_pTxn;
    }

    if (Reg.dwConnectDelay > 0)
    {
        LeaveCriticalSection(&hConnectCriticalSection);
    }

    HRESULT CTPCC_Common::CallSetComplete()
    {
        IObjectContext* pObjectContext = NULL;

        // get our object context
        HRESULT hr = CoGetObjectContext(
IID_IObjectContext, (void **)&pObjectContext );
        pObjectContext->SetComplete();
        ReleaseInterface(pObjectContext);
        return hr;
    }
}

```

```

        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(&hConnectCriticalSection);
    }
    catch (CBaseErr *e)
    {
        TCHAR szMsg[256];

        _snprintf(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;

```

```

        pNewOrder = m_pTxn-
>BuffAddr_NewOrder();

        memcpy(pNewOrder, &pData-
>u.NewOrder, sizeof(NEW_ORDER_DATA));

        m_pTxn->NewOrder(); //

        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;
    }
}

```

```

        return E_FAIL;
    }
}

HRESULT CTPCC_Common::OrderStatus(VARIANT txn_in,
VARIANT* txn_out)
{
    ORDER_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,

>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, Wl, 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_HEADERING( )

/* 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

```

```

void * __RPC_USER MIDL_user_allocate(size_t);
void __RPC_USER MIDL_user_free( void * );

/* interface __MIDL_itf_tpc_com_all_0000 */
/* [local] */

extern RPC_IF_HANDLE
__MIDL_itf_tpc_com_all_0000_v0_0_c_ifspec;
extern RPC_IF_HANDLE
__MIDL_itf_tpc_com_all_0000_v0_0_s_ifspec;

#ifdef __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 /* __TPCCLib_LIBRARY_DEFINED__ */

/* Additional Prototypes for ALL interfaces */
/* end of Additional Prototypes */

#ifdef __cplusplus
}
#endif

#endif

//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

```

tpcc_com_all.r **C**

```

////////////////////////////////////
////////////////////////////////////
//
// 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

#ifdef __MAC
////////////////////////////////////
////////////////////////////////////
//
// Version
//
VS_VERSION_INFO VERSIONINFO
FILEVERSION 1,0,0,1
PRODUCTVERSION 1,0,0,1
FILEFLAGS 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"

```



```

        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'
    }
    'TPCC.AllTxns.1'
        ProgID = s
        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 DEFINE_GUID(name,l,w1,w2,b1,b2,b3,b4,b5,b6,b7,b8) \
    { 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 DEFINE_GUID(name,l,w1,w2,b1,b2,b3,b4,b5,b6,b7,b8) \
    const type name = \
    {1,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) */

#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( )

#ifdef _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_

#ifdef __cplusplus
#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \

typedef struct _IID
{
    unsigned long x;
    unsigned short s1;
    unsigned short s2;
    unsigned char c[8];
} IID;

#endif /* __cplusplus */

#ifdef 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 =
{1,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

#ifdef _M_IA64 || defined(_M_AMD64) /*


---


tpcc_com_no.r


---


gs


---


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'

```

```

        {
            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, Wl, 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;

```

```

#if defined(__cplusplus) && !defined(CINTERFACE)

    MIDL_INTERFACE("FEEB6AA2-84B1-11d2-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 ( STDMETHODCALLTYPE *NewOrder )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *Payment )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *Delivery )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *StockLevel )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *OrderStatus )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *CallSetComplete )(
            ITPCC * This,
            void);

    };

#endif

```

```

        ITPCC * This,
        /* [in] */ VARIANT txn_in,
        /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *NewOrder )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *Payment )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *Delivery )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *StockLevel )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *OrderStatus )(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

        HRESULT ( STDMETHODCALLTYPE *CallSetComplete )(
            ITPCC * This,
            void);

    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(
            IrpStubBuffer *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(
            IrpStubBuffer *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(
            IrpStubBuffer *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(
            IrpStubBuffer *This,
            IRpcChannelBuffer *pRpcChannelBuffer,
            PRPC_MESSAGE_pRpcMessage,
            DWORD *_pdwStubPhase);

        HRESULT __stdcall ITPCC_OrderStatus_Proxy(
            ITPCC * This,
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT *txn_out);

```

```

/* [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
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
VARIANT_UserFree( unsigned long *, VARIANT * );

/* end of Additional Prototypes */

#ifdef __cplusplus
}
#endif

#endif

#pragma warning( disable: 4049 ) /* more than 64k
source lines */

/* this ALWAYS GENERATED file contains the IIDs and
CLSIDs */

```

tpcc_com_ps_i **.C**

```

/* 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, Wl, 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
#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 =
{1,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, Wl, 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 =
{1,w1,w2,{b1,b2,b3,b4,b5,b6,b7,b8}}

#endif !_MIDL_USE_GUIDDEF_

MIDL_DEFINE_GUID(IID,
IID_ITPCC,0xFEEB6AA2,0x84B1,0x11d2,0xBA,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, Wl, 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 */

FC_AUTO_HANDLE */
0x33, /*
Old Flags: object, Oi2 */
/* 2 */ NdrFcLong( 0x0 ), /* 0 */
/* 6 */ NdrFcShort( 0x3 ), /* 3 */
/* 8 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */

```

```

/* 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 */

```

```

/* 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,
{
0 */
/* 2 */
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( 0xffff8 ), /* -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 */

```



```

/* 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 */
FC_STRUCT */
/* 304 */ NdrFcShort( 0x8 ), /* 8 */
/* 306 */ 0xb, /* FC_HYPER */
FC_END */
/* 308 */
FC_UP */
/* 310 */ NdrFcShort( 0xc ), /* Offset= 12 (322) */
/* 312 */
FC_CARRAY */
0x15, /*
0x7, /*
7 */
/* 304 */ NdrFcShort( 0x8 ), /* 8 */
/* 306 */ 0xb, /* FC_HYPER */
FC_END */
/* 308 */
FC_UP */
/* 310 */ NdrFcShort( 0xc ), /* Offset= 12 (322) */
/* 312 */
FC_CARRAY */
0x15, /*
0x7, /*
7 */
/* 304 */ NdrFcShort( 0x8 ), /* 8 */
/* 306 */ 0xb, /* FC_HYPER */
FC_END */
/* 308 */
FC_UP */
/* 310 */ NdrFcShort( 0xc ), /* Offset= 12 (322) */
/* 312 */
FC_CARRAY */
0x1b, /*

```

```

1 */
/* 314 */ NdrFcShort( 0x2 ), /* 2 */
/* 316 */ 0x9, /* Corr desc: FC_ULONG
*/
0x0, /*
*/
/* 318 */ NdrFcShort( 0xffffc ), /* -4 */
/* 320 */ 0x6, /* FC_SHORT */
FC_END */
/* 322 */
FC_CSTRUCT */
0x17, /*
0x3, /*
3 */
/* 324 */ NdrFcShort( 0x8 ), /* 8 */
/* 326 */ NdrFcShort( 0xffffffff2 ), /* Offset= -
14 (312) */
/* 328 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 330 */ 0x5c, /* FC_PAD */
FC_END */
/* 332 */
FC_IP */
0x2f, /*
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, /*
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 */
FC_UP [pointer_deref] */
/* 370 */ NdrFcShort( 0x2 ), /* Offset= 2 (372) */
/* 372 */
FC_UP */
/* 374 */ NdrFcShort( 0x1fc ), /* Offset=
508 (882) */
/* 376 */
FC_ENCAPSULATED_UNION */
0x2a, /*
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 */
FC_CARRAY */
0x1b, /*
0x3, /*
3 */
/* 446 */ NdrFcShort( 0x4 ), /* 4 */
/* 448 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 450 */ NdrFcShort( 0x0 ), /* 0 */
/* 452 */

```

<pre> FC_PP */ 0x4b, /* FC_PAD */ /* 454 */ 0x5c, /* FC_VARIABLE_REPEAT */ 0x48, /* 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(0xfffff6e), /* Offset= - 146 (322) */ /* 470 */ FC_END */ 0x5b, /* FC_LONG */ 0x8, /* /* 472 */ 0x5c, /* FC_PAD */ 0x5b, /* FC_END */ /* 474 */ FC_PSTRUCT */ 0x16, /* 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(0xfffffd4), /* Offset= - 44 (444) */ /* 490 */ FC_END */ 0x5b, /* FC_LONG */ 0x8, /* /* 492 */ 0x8, /* FC_LONG */ 0x5b, /* FC_END */ /* 494 */ FC_BOGUS_ARRAY */ 0x21, /* 0x3, /* 3 */ </pre>	<pre> /* 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(0xfffff50), /* Offset= - 176 (332) */ /* 510 */ 0x5c, /* FC_PAD */ 0x5b, /* FC_END */ /* 512 */ FC_BOGUS_STRUCT */ 0x1a, /* 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(0xfffffe0), /* Offset= - 32 (494) */ /* 528 */ FC_BOGUS_ARRAY */ 0x21, /* 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(0xfffff40), /* Offset= - 192 (350) */ /* 544 */ 0x5c, /* FC_PAD */ 0x5b, /* FC_END */ /* 546 */ FC_BOGUS_STRUCT */ 0x1a, /* 0x3, /* 3 */ </pre>	<pre> /* 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(0xfffffe0), /* 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 */ </pre>
--	--	--

```

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( 0xfffffe4 ), /* 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_SMPARRAY */
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( 0xffffff1
), /* 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( 0xfffff0c ), /* Offset= -
244 (494) */
/* 740 */
0x1b, /*
FC_CARRAY */
0x0, /*
0 */
/* 742 */ NdrFcShort( 0x1 ), /* 1 */

```

```

/* 744 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 746 */ NdrFcShort( 0x0 ), /* 0 */
/* 748 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 750 */
FC_PSTRUCT */
0x16, /*
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( 0xffffffe8 ), /* 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 */

```

```

FC_PAD */
/* 786 */
0x5c, /*
FC_NO_REPEAT */
0x46, /*
FC_PAD */
/* 788 */ NdrFcShort( 0x4 ), /* 4 */
/* 790 */ NdrFcShort( 0x4 ), /* 4 */
/* 792 */ 0x12, 0x0, /* FC_UP */
/* 794 */ NdrFcShort( 0xffffffe8 ), /* 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( 0xffffffe8 ), /* 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( 0xffffffe8 ), /* 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 */

```

```

/* 868 */
FC_CARRAY */
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( 0xfffffee ), /* Offset= -
18 (860) */
/* 880 */ 0x5c, /* FC_PAD */
FC_END */
/* 882 */
FC_BOGUS_STRUCT */
3 */
/* 884 */ NdrFcShort( 0x28 ), /* 40 */
/* 886 */ NdrFcShort( 0xfffffee ), /* Offset= -
18 (868) */
/* 888 */ NdrFcShort( 0x0 ), /* Offset= 0 (888) */
/* 890 */ 0x6, /* FC_SHORT */
FC_SHORT */
/* 892 */ 0x8, /* FC_LONG */
FC_LONG */
/* 894 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
0x0, /*
0 */
/* 896 */ NdrFcShort( 0xffffdf8 ), /* Offset= -
520 (376) */
/* 898 */ 0x5c, /* FC_PAD */
FC_END */
/* 900 */
FC_UP */
/* 902 */ NdrFcShort( 0xffffef6 ), /* Offset= -
266 (636) */
/* 904 */
FC_UP [simple_pointer] */
/* 906 */ 0x1, /* FC_BYTE */
FC_PAD */
/* 908 */
FC_UP [simple_pointer] */
/* 910 */ 0x6, /* FC_SHORT */
FC_PAD */

```

```

/* 912 */
FC_UP [simple_pointer] */
/* 914 */ 0x8, /* FC_LONG */
FC_PAD */
/* 916 */
FC_UP [simple_pointer] */
/* 918 */ 0xb, /* FC_HYPER */
FC_PAD */
/* 920 */
FC_UP [simple_pointer] */
/* 922 */ 0xa, /* FC_FLOAT */
FC_PAD */
/* 924 */
FC_UP [simple_pointer] */
/* 926 */ 0xc, /* FC_DOUBLE */
FC_PAD */
/* 928 */
FC_UP */
/* 930 */ NdrFcShort( 0xffffd8c ), /* Offset= -
628 (302) */
/* 932 */
FC_UP [pointer_deref] */
/* 934 */ NdrFcShort( 0xffffd8e ), /* Offset= -
626 (308) */
/* 936 */
FC_UP [pointer_deref] */
/* 938 */ NdrFcShort( 0xffffda2 ), /* Offset= -
606 (332) */
/* 940 */
FC_UP [pointer_deref] */
/* 942 */ NdrFcShort( 0xffffdb0 ), /* Offset= -
592 (350) */
/* 944 */
FC_UP [pointer_deref] */
/* 946 */ NdrFcShort( 0xffffdbe ), /* Offset= -
578 (368) */
/* 948 */
FC_UP [pointer_deref] */
/* 950 */ NdrFcShort( 0x2 ), /* Offset= 2 (952) */
/* 952 */
FC_UP */
/* 954 */ NdrFcShort( 0x14 ), /* Offset= 20 (974) */
/* 956 */
FC_STRUCT */

```

```

7 */
/* 958 */ NdrFcShort( 0x10 ), /* 16 */
/* 960 */ 0x6, /* FC_SHORT */
FC_BYTE */
/* 962 */ 0x1, /* FC_BYTE */
FC_LONG */
/* 964 */ 0xb, /* FC_HYPER */
FC_END */
/* 966 */
FC_UP */
/* 968 */ NdrFcShort( 0xfffff4 ), /* Offset= -
12 (956) */
/* 970 */
FC_UP [simple_pointer] */
/* 972 */ 0x2, /* FC_CHAR */
FC_PAD */
/* 974 */
FC_BOGUS_STRUCT */
7 */
/* 976 */ NdrFcShort( 0x20 ), /* 32 */
/* 978 */ NdrFcShort( 0x0 ), /* 0 */
/* 980 */ NdrFcShort( 0x0 ), /* Offset= 0 (980) */
/* 982 */ 0x8, /* FC_LONG */
FC_LONG */
/* 984 */ 0x6, /* FC_SHORT */
FC_SHORT */
/* 986 */ 0x6, /* FC_SHORT */
FC_SHORT */
/* 988 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
0x0, /*
0 */
/* 990 */ NdrFcShort( 0xffffc28 ), /* Offset= -
984 (6) */
/* 992 */ 0x5c, /* FC_PAD */
FC_END */
/* 994 */ 0xb4, /* FC_USER_MARSHAL */
131 */
/* 996 */ NdrFcShort( 0x0 ), /* 0 */
/* 998 */ NdrFcShort( 0x10 ), /* 16 */
/* 1000 */ NdrFcShort( 0x0 ), /* 0 */
/* 1002 */ NdrFcShort( 0xffffc18 ), /*
Offset= -1000 (2) */
/* 1004 */
FC_RP [allocated_on_stack] */

```

```

/* 1006 */      NdrFcShort( 0x6 ), /* Offset= 6
(1012) */
/* 1008 */
                                0x13, 0x0, /*
FC_OP */
/* 1010 */      NdrFcShort( 0xfffffcdc ), /*
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={0xFEE6AA2,0x84B1,0x11d2,{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,
    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,

```

```

    (const PCInterfaceName * ) &
    _tpcc_com_ps_InterfaceNamesList,
    0, // no delegation
    & _tpcc_com_ps_IID_Lookup,
    1,
    2,
    0, /* table of [async_uid] 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 =
{
    {
        /* Procedure NewOrder */
        FC_AUTO_HANDLE /*
0x33, */
        /*
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, */

```

```

/* 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 */

```



```

/* 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 */
FC_NON_ENCAPSULATED_UNION */
0x2b, /*
FC_ULONG */
/* 8 */ 0x7, /* Corr desc: FC_USHORT
*/
0x0, /*
/* 10 */ NdrFcShort( 0xffff8 ), /* -8 */
/* 12 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 14 */ NdrFcShort( 0x2 ), /* Offset= 2 (16) */
/* 16 */ NdrFcShort( 0x10 ), /* 16 */
/* 18 */ NdrFcShort( 0x2f ), /* 47 */
/* 20 */ NdrFcShort( 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 */

```

```

/* 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 */
FC_CSTRUCT */
0x17, /*
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 */
0x2E, /*
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 */
0x2E, /*
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( 0xfffff74 ), /* Offset= -
140 (326) */
/* 468 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 470 */

```

```

Ox1a, /*
FC_BOGUS_STRUCT */
Ox3, /*
3 */
/* 472 */ NdrFcShort( 0x10 ), /* 16 */
/* 474 */ NdrFcShort( 0x0 ), /* 0 */
/* 476 */ NdrFcShort( 0x6 ), /* Offset= 6 (482) */
/* 478 */ Ox8, /* FC_LONG */
Ox40, /*
FC_STRUCTPAD4 */
/* 480 */ Ox36, /* FC_POINTER */
Ox5b, /*
FC_END */
/* 482 */
Ox11, 0x0, /*
FC_RP */
/* 484 */ NdrFcShort( 0xfffffdc ), /* Offset= -
36 (448) */
/* 486 */
Ox21, /*
FC_BOGUS_ARRAY */
Ox3, /*
3 */
/* 488 */ NdrFcShort( 0x0 ), /* 0 */
/* 490 */ Ox19, /* Corr desc: field
pointer, FC_ULONG */
Ox0, /*
*/
/* 492 */ NdrFcShort( 0x0 ), /* 0 */
/* 494 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 496 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 500 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 502 */ Ox4c, /* FC_EMBEDDED_COMPLEX
*/
Ox0, /*
0 */
/* 504 */ NdrFcShort( 0xfffff58 ), /* Offset= -
168 (336) */
/* 506 */ Ox5c, /* FC_PAD */
Ox5b, /*
FC_END */
/* 508 */
Ox1a, /*
FC_BOGUS_STRUCT */
Ox3, /*
3 */
/* 510 */ NdrFcShort( 0x10 ), /* 16 */
/* 512 */ NdrFcShort( 0x0 ), /* 0 */
/* 514 */ NdrFcShort( 0x6 ), /* Offset= 6 (520) */
/* 516 */ Ox8, /* FC_LONG */
Ox40, /*
FC_STRUCTPAD4 */
/* 518 */ Ox36, /* FC_POINTER */
Ox5b, /*
FC_END */
/* 520 */
Ox11, 0x0, /*
FC_RP */
/* 522 */ NdrFcShort( 0xfffffdc ), /* Offset= -
36 (486) */

```

```

/* 524 */
FC_BOGUS_ARRAY */
Ox21, /*
Ox3, /*
3 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ Ox19, /* Corr desc: field
pointer, FC_ULONG */
Ox0, /*
*/
/* 530 */ NdrFcShort( 0x0 ), /* 0 */
/* 532 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 534 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 538 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 540 */ Ox4c, /* FC_EMBEDDED_COMPLEX
*/
Ox0, /*
0 */
/* 542 */ NdrFcShort( 0xfffff44 ), /* Offset= -
188 (354) */
/* 544 */ Ox5c, /* FC_PAD */
Ox5b, /*
FC_END */
/* 546 */
Ox1a, /*
FC_BOGUS_STRUCT */
Ox3, /*
3 */
/* 548 */ NdrFcShort( 0x10 ), /* 16 */
/* 550 */ NdrFcShort( 0x0 ), /* 0 */
/* 552 */ NdrFcShort( 0x6 ), /* Offset= 6 (558) */
/* 554 */ Ox8, /* FC_LONG */
Ox40, /*
FC_STRUCTPAD4 */
/* 556 */ Ox36, /* FC_POINTER */
Ox5b, /*
FC_END */
/* 558 */
Ox11, 0x0, /*
FC_RP */
/* 560 */ NdrFcShort( 0xfffffdc ), /* Offset= -
36 (524) */
/* 562 */
Ox21, /*
FC_BOGUS_ARRAY */
Ox3, /*
3 */
/* 564 */ NdrFcShort( 0x0 ), /* 0 */
/* 566 */ Ox19, /* Corr desc: field
pointer, FC_ULONG */
Ox0, /*
*/
/* 568 */ NdrFcShort( 0x0 ), /* 0 */
/* 570 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 572 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 576 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 578 */
Ox12, 0x0, /*
FC_UP */

```

```

/* 580 */ NdrFcShort( 0x176 ), /* Offset=
374 (954) */
/* 582 */ Ox5c, /* FC_PAD */
Ox5b, /*
FC_END */
/* 584 */
Ox1a, /*
FC_BOGUS_STRUCT */
Ox3, /*
3 */
/* 586 */ NdrFcShort( 0x10 ), /* 16 */
/* 588 */ NdrFcShort( 0x0 ), /* 0 */
/* 590 */ NdrFcShort( 0x6 ), /* Offset= 6 (596) */
/* 592 */ Ox8, /* FC_LONG */
Ox40, /*
FC_STRUCTPAD4 */
/* 594 */ Ox36, /* FC_POINTER */
Ox5b, /*
FC_END */
/* 596 */
Ox11, 0x0, /*
FC_RP */
/* 598 */ NdrFcShort( 0xfffffdc ), /* Offset= -
36 (562) */
/* 600 */
Ox2f, /*
FC_IP */
Ox5a, /*
FC_CONSTANT_IID */
/* 602 */ NdrFcLong( 0x2f ), /* 47 */
/* 606 */ NdrFcShort( 0x0 ), /* 0 */
/* 608 */ NdrFcShort( 0x0 ), /* 0 */
/* 610 */ Ox0c, /* 192 */
Ox0, /*
0 */
/* 612 */ Ox0, /* 0 */
Ox0, /*
0 */
/* 614 */ Ox0, /* 0 */
Ox0, /*
0 */
/* 616 */ Ox0, /* 0 */
Ox46, /*
70 */
/* 618 */
Ox1b, /*
FC_CARRAY */
Ox0, /*
0 */
/* 620 */ NdrFcShort( 0x1 ), /* 1 */
/* 622 */ Ox19, /* Corr desc: field
pointer, FC_ULONG */
Ox0, /*
*/
/* 624 */ NdrFcShort( 0x4 ), /* 4 */
/* 626 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 628 */ Ox1, /* FC_BYTE */
Ox5b, /*
FC_END */
/* 630 */

```

```

                                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( 0xfffffd6 ), /* Offset= -
42 (600) */
/* 644 */ 0x36, /* FC_POINTER */
                                0x5b,          /*
FC_END */
/* 646 */
                                0x12, 0x0,      /*
FC_UP */
/* 648 */ NdrFcShort( 0xfffffe2 ), /* 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( 0xfffffda ), /* 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 */
FC_RP */
/* 686 */ NdrFcShort( 0xfffffde ), /* Offset= -
36 (650) */
/* 688 */
                                0x1d,          /*
FC_SMPARRAY */
                                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( 0xffffffe7
), /* 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( 0xffffffe6 ), /* 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 */

```

```

                                0x12, 0x0,      /*
FC_UP */
/* 780 */ NdrFcShort( 0xffffffe6 ), /* 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( 0xffffffe6 ), /* 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( 0xffffffe6 ), /* 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( 0xfffffec ), /* Offset= -
20 (838) */
/* 860 */ 0x5c, /* FC_PAD */
                                0x5b,      /*
FC_END */
/* 862 */
                                0x1a,      /*
FC_BOGUS_STRUCT */
                                0x3,      /*
3 */
/* 864 */ NdrFcShort( 0x38 ), /* 56 */
/* 866 */ NdrFcShort( 0xfffffec ), /* 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( 0xfffff04 ), /* 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) */

```

```

/* 916 */
FC_UP [pointer_deref] */
/* 918 */ NdrPcShort( 0xfffffdba ), /* Offset= -
582 (336) */
/* 920 */
FC_UP [pointer_deref] */
/* 922 */ NdrPcShort( 0xfffffdc8 ), /* Offset= -
568 (354) */
/* 924 */
FC_UP [pointer_deref] */
/* 926 */ NdrPcShort( 0xfffffdd6 ), /* Offset= -
554 (372) */
/* 928 */
FC_UP [pointer_deref] */
/* 930 */ NdrPcShort( 0x2 ), /* Offset= 2 (932) */
/* 932 */
FC_UP */
/* 934 */ NdrPcShort( 0x14 ), /* Offset= 20 (954) */
/* 936 */
FC_STRUCT */
/* 938 */ NdrPcShort( 0x10 ), /* 16 */
/* 940 */ 0x6, /* FC_SHORT */
FC_BYTE */
/* 942 */ 0x1, /* FC_BYTE */
FC_LONG */
/* 944 */ 0xb, /* FC_HYPER */
FC_END */
/* 946 */
FC_UP */
/* 948 */ NdrPcShort( 0xfffffff4 ), /* Offset= -
12 (936) */
/* 950 */
FC_UP [simple_pointer] */
/* 952 */ 0x2, /* FC_CHAR */
FC_PAD */
/* 954 */
FC_BOGUS_STRUCT */
/* 956 */ NdrPcShort( 0x20 ), /* 32 */
/* 958 */ NdrPcShort( 0x0 ), /* 0 */
/* 960 */ NdrPcShort( 0x0 ), /* Offset= 0 (960) */
/* 962 */ 0x8, /* FC_LONG */
FC_LONG */
/* 964 */ 0x6, /* FC_SHORT */

```

```

0x6, /*
FC_SHORT */
/* 966 */ 0x6, /* FC_SHORT */
FC_SHORT */
/* 968 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0 */
/* 970 */ NdrPcShort( 0xfffffc3c ), /* Offset= -
964 (6) */
/* 972 */ 0x5c, /* FC_PAD */
FC_END */
/* 974 */ 0xb4, /* FC_USER_MARSHAL */
131 */
/* 976 */ NdrPcShort( 0x0 ), /* 0 */
/* 978 */ NdrPcShort( 0x18 ), /* 24 */
/* 980 */ NdrPcShort( 0x0 ), /* 0 */
/* 982 */ NdrPcShort( 0xfffffc2c ), /* Offset= -
980 (2) */
/* 984 */
FC_RP [allocated_on_stack] */
/* 986 */ NdrPcShort( 0x6 ), /* Offset= 6 (992) */
/* 988 */
FC_OP */
/* 990 */ NdrPcShort( 0xfffffddc ), /* Offset= -
36 (954) */
/* 992 */ 0xb4, /* FC_USER_MARSHAL */
131 */
/* 994 */ NdrPcShort( 0x0 ), /* 0 */
/* 996 */ NdrPcShort( 0x18 ), /* 24 */
/* 998 */ NdrPcShort( 0x0 ), /* 0 */
/* 1000 */ NdrPcShort( 0xfffffff4 ), /*
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={0xFEEB6AA2,0x84B1,0x11d2,{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 */ ,

```



```

// 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 DEFCLPCKSIZE
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
message number
int
message state
msgstate
int
severity
message severity
char
printable
*msgtext
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 pDest 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, "" }
    },
}

```



```

    }
};
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;
}

```

```

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 *)

```

```

&m_txn.StockLevel.threshold); // @threshold
smallint
    if (dbrpcexec(m_dbproc)
== FAIL)
    ThrowError(CDBLIBERR::eDbRpcExec);
    if (dbresults(m_dbproc)
!= SUCCEEDED)
    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
||
== iErrOleDbProvider &&
>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;
    DBDATETIME         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) != SUCCEEDED)
        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,
(LPBYTE)pData, dbdatlen(m_dbproc, 4),
SQLFLT8, (BYTE
*)&m_txn.NewOrder.OL[i].ol_i_price, 8);
        if (pData=dbdata(m_dbproc, 5))

```

```

        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)
!= SUCCEEDED)
    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);

```

```

        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;

```

```

        m_txn.Payment.c_since.minute =
daterec.minute;
        m_txn.Payment.c_since.second =
daterec.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,
(LPBYTE)pData, dbdatlen(m_dbproc,24), SQLFLT8, (BYTE
*)&m_txn.Payment.c_credit_lim, 8);
    if(pData=dbdata(m_dbproc, 25))
        dbconvert(m_dbproc, SQLNUMERIC,
(LPBYTE)pData, dbdatlen(m_dbproc,25), SQLFLT8, (BYTE
*)&m_txn.Payment.c_discount, 8);
    if(pData=dbdata(m_dbproc, 26))
        dbconvert(m_dbproc, SQLNUMERIC,
(LPBYTE)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->msgno == 1205
||
(e->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;
    DBDATERECDaterec;
    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)
!= SUCCEEDED)
            {
                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,
(LPBYTE)pData, dbdatlen(m_dbproc,4),
SQLFLT8, (BYTE
*)&m_txn.OrderStatus.OL[i].ol_amount, 8);
                    if(pData=dbdata(m_dbproc, 5))

```

```

        {
            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
        == iErrOleDbProvider &&
        >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);

```

```

        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)
!= SUCCEEDED)
            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
||
== iErrOleDbProvider &&
>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:      TPC_C_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.
#ifdef 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*
        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
    };

```



```

        eDbProcHandler
        // error from either dbprocerrhandle or
        dbprocmsgshandle
    };

    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 proc 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)
    CSQLEERR *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);

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>

```

```

#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 WINAPIENTRY 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;
};

```

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.
#ifdef 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;
        } *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; //
        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 =
        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 <sqlxext.h>
```

```

// #define COMPILE_FOR_SNAC // define that to
// compile for SQL Native Client; comment out to use
// MDAC

#ifdef 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 )

```

```

ThrowError(CODBCERR::eConnOption);

{
    char
    szConnectStr[256];
    char
    szOutStr[1024];
    SQLSMALLINT
    iOutStrLen;

#ifdef 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
(strncmp(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 &&
strchr(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 );
    }

```

```

    }

    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
    _snprintf(m_szStockLevelCommand,
sizeof(m_szStockLevelCommand)/sizeof(m_szStockLevelCo
mmand[0]),
        L" {call %stpcp_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)
            if (++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
            )

```

```

        || 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
    snprintf(m_szNewOrderCommand,
sizeof(m_szNewOrderCommand)/sizeof(m_szNewOrderComman
d(0)),
        // 0      1      2
        //
012345678901234567890123456789
        L"{call
%stppcc_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_UIINTEGER) != 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
    )

```

```

        || 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_szNew
wOrderNoDuplicatesCommand[0]),
        L"{call
%stpc_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];

    tpcc_neworder(?,?,?,?,?, " // L"{call
L"?,?,?,?,?,?,?,?,?,?,?,?,?, " //
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
    wcsncpy(szSqlTemplate, m_szNewOrderCommand);
    i = m_iBeginNewOrderVariablePart +
m_txn.NewOrder.o_ol_cnt*6;
    wcsncpy( &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
                    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

```



```

        if ( SQLSetStmtAttrW(
m_hstmt, SQL_ATTR_APP_ROW_DESC, m_descNewOrderCols2,
SQL_IS_POINTER ) != SQL_SUCCESS )

        ThrowError(CODBCERR::eSetStmtAttr);

    == SQL_ERROR)
        if ( SQLFetch(m_hstmt)

        ThrowError(CODBCERR::eFetch);

SQL_CLOSE);

        SQLFreeStmt(m_hstmt,

        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        //
0123456789012345678901234567890123
wchar_t
szSqlTemplate[iMAX_SP_NAME_LEN];

tpcc_neworder_new(?,?,?,?," // L"(call

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
        wcsncpy(szSqlTemplate,
m_szNewOrderNoDuplicatesCommand);
        i =
m_iBeginNewOrderNoDuplicatesVariablePart +
m_txn.NewOrder.o_ol_cnt*6;
        wcsncpy( &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);
            }
        }

```

```

        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)
    {
        throw;
    }

    // hit deadlock;
    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,

```

```

        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.o_balance, 0, NULL)
!= SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG, &m_txn.OrderStatus.o_id, 0, NULL) !=
SQL_SUCCESS
)

            ThrowError(CODBCERR::eBindCol);

```

```

        //Compose Order Status statement
        _snwprintf(m_szOrderStatusCommand,
sizeof(m_szOrderStatusCommand)/sizeof(m_szOrderStatus
Command[0]),
                L"{call %stpcp_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 );

            m_txn.OrderStatus.exec_status_code = eOK;

            break;
        }
        catch (CODBCERR *e)
        {
            if (!(e->m_bDeadLock))
                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,
(WORD)(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 %stpcp_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);

```

```

        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: TPC_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.
#ifdef 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

```

```

        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_NAME
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
        SQLUIINTEGER m_BindOffset;
        SQLUIINTEGER
        m_RowsFetched;

```

```

        int
        m_no_commit_flag;

        // tpcc_neworder_new flag
        BOOL
        m_bCallNoDuplicatesNewOrder;

        void ThrowError( COBDCERR::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( LPCWSTR
szServer, LPCSTR szUser, LPCSTR szPassword,

        LPCWSTR 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
( LPCWSTR szServer, LPCSTR szUser,
LPCSTR szPassword,
LPCSTR szHost, LPCSTR szDatabase,
LPCWSTR szSPPrefix, BOOL
bCallNoDuplicatesNewOrder );

typedef CTPCC_ODBC* (TYPE_CTPCC_ODBC) (LPCWSTR, 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

```

```

// 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
definitions 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(&TpCriticalSection);
            break;
        case DLL_PROCESS_DETACH:

```

```

TlsFree(TLSIsTpInitedKey);
DeleteCriticalSection(&TpCriticalSection);
break;
    default:
        /* nothing */;
    }
    return TRUE;
}

static void ThrTpInit()
{
    static int num_tpinit=0;
    int iRc, TpRc;

    // has this thread been initialized? check
    thread local storage
    if(!TlsGetValue(TLSIsTpInitedKey))
    {
        EnterCriticalSection(&TpCriticalSection);
        itoa(++num_tpinit, 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();

```

```

        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: TPC_C_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.
#ifdef 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

```



```

iError )
    CTUXERR( int iErrorType, int
    {
        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
#endif
#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 dblink, 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.
#ifdef _SQLTYPES
typedef struct
{
    /* SQLSMALLINT */ short
    year;
    SQLSMALLINT /* month; unsigned short /*
    SQLSMALLINT /* day; unsigned short /*
    SQLSMALLINT /* hour; unsigned short /*
    SQLSMALLINT /* minute; unsigned short /*
    SQLSMALLINT /* second; unsigned short /*
    SQLINTEGER /* fraction; unsigned long /*
    } TIMESTAMP_STRUCT;
#endif

// possible values for exec_status_code after
// transaction completes
enum EXEC_STATUS
{
    eOK, // 0
    "Transaction committed."
}

```

```

        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.

```

```

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
definitions 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
 *          Failure -1
 */

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[])

```

```

{
    // 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
        (LPCWSTR *)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."));

```

```

        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."
},
    },
}

```

```

        { 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_tmrserver_((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 tnull_switch;

struct tmsvargs_t tmsvargs = {
    NULL,
    &tmdsptchtbl[0],
    0,
    tpsvrinit,
    tpsvrdone,
    _tmrserver, /* PRIVATE */
    NULL, /* RESERVED */
};

```

```

        NULL,          /* RESERVED
*/
        NULL,          /* RESERVED
*/
        NULL          /* RESERVED
*/
};

struct tmsvrargs_t *
#ifdef _TMPROTOTYPES
_tmgetsvrargs(void)
#else
_tmgetsvrargs()
#endif
{
    tmsvrargs.xa_switch = &tmsvrargs.null_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.
#ifdef 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"

#ifdef 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

```

```

*
*/
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);
}

```



```

    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(); // uninitialized 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

```

```

        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),
&hTpcVersionOutputAccessor,
                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,
hTpcVersionOutputAccessor, &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: SMOLEDB 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,

```

```

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
        // 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;
            }
        }

```

```

    }

    // 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**)
    &IErrorRecords)))
    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();
    }
    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 immediately.
 */
void CTPCC_OLEDB::PrepareCommand(ICommandText*
pICommandText)
{
    HRESULT hr;
    ICommandPrepare* pICommandPrepare;
    ICommandProperties* pICommandProperties;
    DBPROPSET
    rowSetPropSet;
    DBPROP
    rowSetProp;

    // Set the deferred prepare property to
    false.

```

```

        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_SQLSERVERROWSSET;
        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"%s{call
%stppcc_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);

```

```

        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              i;
    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

```

```

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 %stpc_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"?,?,?");

```

```

    }
    // Print the fixed end
    if (j != MAX_OL_NEW_ORDER_ITEMS -
1)
    {
        // append 'default' for
the parameters that are not used
        i +=
        _snprintf(&szName[i],
sizeof(szName)/sizeof(szName[0]) - i, L"default}");
    }
    else // using all 15 order
line parameters
    {
        i +=
        _snprintf(&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,
        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(

```


<pre> NULL, IID_IMultipleResults, &m_NewOrderExecuteParams[iHandleIndex], NULL, (IUnknown **) &MultipleResults; 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.NewOrder.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()"); } </pre>	<pre> } // 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)) { </pre>	<pre> 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); } </pre>
---	---	---

```

    }
}
// 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
%stpc_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);

```

```

        // 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_OPTIMIZED, DBACCESSOR_ROWDATA |
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);
    }
}

```

```

//      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
    snprintf(szName,
sizeof(szName)/sizeof(szName[0]),
L"call
%stppcc_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);

```

```

// 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),
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
////////////////////////////////////

```

```

        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(rgRows2,
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
    _snprintf(szName,
sizeof(szName)/sizeof(szName[0]),
L"{call %stpc_delivery
(?,?)", m_szSPPrefix);

    // Create and Prepare a new command object
    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);

```

```

    }

    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                   rgRow;
    //returned row handles
    HROW*                  prghRow =
&rgRow;

    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(rgRow, 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))
                throw;

            // hit deadlock;
            // error from QueryInterface
            // 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: TPC_C_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()
    {

```

```

        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

```



```

// 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, 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
#ifdef 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
#ifdef 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

```

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",                3
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
```

```

-- 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

```

```

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

```

--
-- 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 uplock)
            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

-- accumulate 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

```

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 = DEF_LD_PACK_SIZE;
    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 through */
    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;
    }
}
```

```

        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)

```

```

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
-----

```



```

--      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_cl' )
    DROP INDEX new_order.new_order_cl

CREATE UNIQUE CLUSTERED INDEX new_order_cl 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_cl' )
    DROP INDEX order_line.order_line_cl

CREATE UNIQUE CLUSTERED INDEX order_line_cl 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_cl' )
    DROP INDEX orders.orders_cl

CREATE UNIQUE CLUSTERED INDEX orders_cl 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

```

idxordnc.sql

```

--      --                                           --
--      File:   IDXORDNC.SQL                       --
--      Microsoft TPC-C Benchmark Kit Ver. 4.62   --
--      Copyright Microsoft, 2005                --
--      --                                           --
--      Creates non-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_nc1' )
    DROP INDEX orders.orders_nc1

```

```

CREATE INDEX orders_ncl ON orders(o_w_id, o_d_id, o_c_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

```

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,
        @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 available 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

-----
-- update stock values
-----
    UPDATE stock
    SET   s_ytd        = s_ytd + @li_qty,
           @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
-----

```

```

-- 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
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, 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

```
-----
-- 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','0,0,0'

        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,
       @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 = 'dzKoCOBqbc3yu',
        @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,
        @c_balance,
        @screen_data

GO

CREATE PROCEDURE tpcc_stocklevel
        @w_id int,

```

```

                @d_id          tinyint,
                @threshold    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

        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,

```

```

GO
        @o_id

-----
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),
        @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,
                             @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

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
//Original 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;
}

```

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
--           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,
    @threshold 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 < @threshold

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))
    {
        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 percentage is valid
    if ((percent < 0) || (percent > 100))
    {
        printf("MakeOriginalAlphaString: Invalid percentage: %d\n",
percent);
        exit(-1);
    }

    // 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 )
        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,
    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
#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 DEFPLDPACKSIZE 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;
} TPCCCLR_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);

// 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 hdbc);
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_i_id;          ol;
    long            ol_i_id;          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_c_id;            o_w_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;
    double          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];
    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;

TPCC_LDR_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*****\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)
{
    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);

                    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 != SUCCEEDED)
        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 != SUCCEEDED)
            HandleErrorDBC(i_hdbc1);
    }

    i = 0;
    rc = bcp_bind(i_hdbc1, (BYTE *) &i_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);
    rc = bcp_bind(i_hdbc1, (BYTE *) i_name, 0, I_NAME_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);
    rc = bcp_bind(i_hdbc1, (BYTE *) &i_price, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);

```

```

    rc = bcp_bind(i_hdbc1, (BYTE *) i_data, 0, SQL_VARLEN_DATA, "", 1, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);
    rc = bcp_bind(i_hdbc1, (BYTE *) &i_im_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEEDED)
        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 != SUCCEEDED)
            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()
{
    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, "house.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
//
//=====
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 != SUCCEEDED)
    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 != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);
}

i = 0;
rc = bcp_bind(w_hdbc1, (BYTE *) &d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &d_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &d_ytd, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &d_next_o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

```

```

rc = bcp_bind(w_hdbc1, (BYTE *) &d_tax, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_name, 0, D_NAME_LEN, NULL, 0, 0, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_street_1, 0, ADDRESS_LEN, NULL, 0, 0,
++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_street_2, 0, ADDRESS_LEN, NULL, 0, 0,
++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_city, 0, ADDRESS_LEN, NULL, 0, 0, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_state, 0, STATE_LEN, NULL, 0, 0, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_zip, 0, ZIP_LEN, NULL, 0, 0, ++i);
if (rc != SUCCEEDED)
    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 != SUCCEEDED)
            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);

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         bcp hint[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(bcp hint, "tablock, order (s_i_id, s_w_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 10000));
        rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcp hint);
        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);
        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);
    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 = (TimeNow() / MILLI);
history_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,
        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);
    }
}

//=====
//
// 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 != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_discount, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_credit_lim, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_last, 0, LAST_NAME_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_first, 0, FIRST_NAME_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_credit, 0, CREDIT_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_balance, 0, 5, NULL, 0, SQLCHARACTER, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_ytd_payment, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

```

```

rc = bcp_bind(c_hdbc1, (BYTE *) &c_payment_cnt, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_delivery_cnt, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0, ADDRESS_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0, ADDRESS_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_city, 0, ADDRESS_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_state, 0, STATE_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_zip, 0, ZIP_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_phone, 0, PHONE_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_since, 0, C_SINCE_LEN, NULL, 0,
SQLCHARACTER, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0, MIDDLE_NAME_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_data, 0, C_DATA_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        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);

    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("idxmodcl");
        BuildIndex("idxodlcl");
    }

    // initialize bulk copy
    sprintf(name, "%s.%s", aptr->database, "orders");

    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 != SUCCEEDED)
                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 != SUCCEEDED)
            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 != SUCCEEDED)
                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 != SUCCEEDED)
            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 * 30000));
            rc = bcp_control(o_hdbc3, BCPHINTS, (void*) bcphint);
            if (rc != SUCCEEDED)
                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,

(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;
            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("idxordc1");

        // build non-clustered index
        if (aptr->build_index == 1)
            BuildIndex("idxordnc");
    }
}

//=====
//
// 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 != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);
rc = bcp_bind(o_hdbc2, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);
rc = bcp_bind(o_hdbc2, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEEDED)
        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 != SUCCEEDED)
        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 != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
rc = bcp_bind(o_hdbc3, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
rc = bcp_bind(o_hdbc3, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
rc = bcp_bind(o_hdbc3, (BYTE *) &ol, 0, SQL_VARLEN_DATA, NULL, 0, SQLFLT8,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
rc = bcp_bind(o_hdbc3, (BYTE *) &ol_i_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
rc = bcp_bind(o_hdbc3, (BYTE *) &ol_delivery_d, 0, OL_DELIVERY_D_LEN,
NULL, 0, SQLCHARACTER, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
rc = bcp_bind(o_hdbc3, (BYTE *) &ol_amount, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
rc = bcp_bind(o_hdbc3, (BYTE *) &ol_supply_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
rc = bcp_bind(o_hdbc3, (BYTE *) &ol_quantity, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
rc = bcp_bind(o_hdbc3, (BYTE *) &ol_dist_info, 0, DIST_INFO_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    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;

        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("idxodlcl1*");
    }
}

//=====
//
// 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));

        *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)
        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,

                                SQL_NTS,

(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,

                                SQL_NTS,

(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,
                                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)
        {
            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,"tpcldr.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,
    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 ''
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',
  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
-- lq 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

begin transaction n

-- get district tax and next available 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
    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

0 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 ol(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
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

```

Appendix C: Tunable Parameters

Microsoft SQL Server 2005 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
```

File locations:

```
sqlserver.exe          C:\Program
Files\Microsoft SQL Server\MSSQL\BINN
ERRORLOG              C:\Program Files\Microsoft SQL
Server\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

```
l> 2> name
      minimum      maximum      config_value
run_value
-----
-----
-----
affinity mask
      -2147483648  2147483647      3
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
```

```
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
      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_6104
File Path: C:\David_rte\FQ_6104.xml
Version: 5

Number of Engines: 8

Name: RTE1
Description:
Directory: c:\blog\rte1.log
Machine: n19
Parameter Set: 1.01 best
Index: 800000000
Seed: 4678
Configured Users: 7630
Pipe Name: DRIVER44265281
Connect Rate: 3111
Start Rate: 3111
Max. Concurrency: 7630
Concurrency Rate: 1111
CLIENT_NURAND: 25
CPU: 0
Additional Options:

Name: RTE3
Description:
Directory: c:\blog\rte3.log
Machine: n23
Parameter Set: 1.01 best
Index: 200000000
Seed: 4678
Configured Users: 7630
Pipe Name: DRIVER3439676359
Connect Rate: 3111
Start Rate: 3111
Max. Concurrency: 7630
Concurrency Rate: 1111
CLIENT_NURAND: 25
CPU: 0
Additional Options:

Name: RTE4
Description:
Directory: c:\blog\rte4.log
Machine: n23
Parameter Set: 1.01 best
Index: 300000000
Seed: 4678
Configured Users: 7630
Pipe Name: DRIVER4439706187
Connect Rate: 3111
Start Rate: 3111
Max. Concurrency: 7630
Concurrency Rate: 1111
CLIENT_NURAND: 25
CPU: 1

Additional Options:

Name: RTE2
Description:
Directory: c:\blog\rte2.log
Machine: n19
Parameter Set: 1.01 best
Index: 900000000
Seed: 4678
Configured Users: 7630
Pipe Name: DRIVER5346413218
Connect Rate: 3111
Start Rate: 3111
Max. Concurrency: 7630
Concurrency Rate: 1111
CLIENT_NURAND: 25
CPU: 1
Additional Options:

Name: RTE5
Description:
Directory: c:\blog\rte5.log
Machine: n24
Parameter Set: 1.01 best
Index: 400000000
Seed: 4678
Configured Users: 7630
Pipe Name: DRIVER5-418577843
Connect Rate: 3111
Start Rate: 3111
Max. Concurrency: 7630
Concurrency Rate: 1111
CLIENT_NURAND: 25
CPU: 0
Additional Options:

Name: RTE6
Description:
Directory: c:\blog\rte6.log
Machine: n24
Parameter Set: 1.01 best
Index: 500000000
Seed: 4678
Configured Users: 7630
Pipe Name: DRIVER6-418516765
Connect Rate: 3111
Start Rate: 3111
Max. Concurrency: 7630
Concurrency Rate: 1111
CLIENT_NURAND: 25
CPU: 1
Additional Options:

Name: RTE7
Description:
Directory: c:\blog\rte7.log
Machine: n20
Parameter Set: 1.01 best
Index: 600000000
Seed: 4678
Configured Users: 7630
Pipe Name: DRIVER7259371328
Connect Rate: 3111

Start Rate: 3111
Max. Concurrency: 7630
Concurrency Rate: 1111
CLIENT_NURAND: 25
CPU: 0
Additional Options:

Name: RTE8
Description:
Directory: c:\blog\rte8.log
Machine: n20
Parameter Set: 1.01 best
Index: 700000000
Seed: 4678
Configured Users: 7630
Pipe Name: DRIVER8259401875
Connect Rate: 3111
Start Rate: 3111
Max. Concurrency: 7630
Concurrency Rate: 1111
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 - 763
w_id Min Warehouse: 1
w_id Max Warehouse: 6104
Scale: Normal
User Count: 7630
District id: 1
Scale Down: No

Driver Engine: RTE2
IIS Server: cr1
SQL Server: fq
Database: tpcc
User: sa
Protocol: HTML
w_id Range: 764 - 1526
w_id Min Warehouse: 1
w_id Max Warehouse: 6104
Scale: Normal
User Count: 7630
District id: 1
Scale Down: No

Driver Engine: RTE3
IIS Server: cr2
SQL Server: fq
Database: tpcc
User: sa
Protocol: HTML
w_id Range: 1527 - 2289
w_id Min Warehouse: 1
w_id Max Warehouse: 6104

Scale: Normal
 User Count: 7630
 District id: 1
 Scale Down: No

Driver Engine: RTE4
 IIS Server: cr2
 SQL Server: fq
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 2290 - 3052
 w_id Min Warehouse: 1
 w_id Max Warehouse: 6104
 Scale: Normal
 User Count: 7630
 District id: 1
 Scale Down: No

Driver Engine: RTE5
 IIS Server: cr3
 SQL Server: fqb
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 3053 - 3815
 w_id Min Warehouse: 1
 w_id Max Warehouse: 6104
 Scale: Normal
 User Count: 7630
 District id: 1
 Scale Down: No

Driver Engine: RTE6
 IIS Server: cr3
 SQL Server: fqb
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 3816 - 4578
 w_id Min Warehouse: 1
 w_id Max Warehouse: 6104
 Scale: Normal
 User Count: 7630
 District id: 1
 Scale Down: No

Driver Engine: RTE7
 IIS Server: cr4
 SQL Server: fqb
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 4579 - 5341
 w_id Min Warehouse: 1
 w_id Max Warehouse: 6104
 Scale: Normal
 User Count: 7630
 District id: 1
 Scale Down: No

Driver Engine: RTE8
 IIS Server: cr4

SQL Server: fqb
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 5342 - 6104
 w_id Min Warehouse: 1
 w_id Max Warehouse: 6104
 Scale: Normal
 User Count: 7630
 District id: 1
 Scale Down: No

Number of Parameter Sets: 68

~Default
 Default Parameter Set

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			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

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			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

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	10.00	
0.00	0.00	0.00	0.00	5.00	0.00
			Payment	10.00	
0.00	0.00	0.00	0.00	5.00	0.00
			Delivery	1.00	
0.00	0.00	0.00	0.00	5.00	0.00
			Stock Level	1.00	
0.00	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%

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			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%

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			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

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			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

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
48.20	18.01		0.10	5.00	0.10

48.20	3.01		Payment	43.10		
			0.10	5.00	0.10	
20.20	2.01		Delivery	4.05		
			0.10	5.00	0.10	
20.20	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
40.20	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			3.8			
			3.8 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
45.70	18.01		New Order	44.75		
			0.10	5.00	0.10	
45.70	3.01		Payment	43.10		
			0.10	5.00	0.10	
19.10	2.01		Delivery	4.05		
			0.10	5.00	0.10	
19.10	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
38.10	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			3.6			
			3.6 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
43.30	18.01		New Order	44.75		
			0.10	5.00	0.10	
43.30	3.01		Payment	43.10		
			0.10	5.00	0.10	
18.10	2.01		Delivery	4.05		
			0.10	5.00	0.10	
18.10	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
36.18	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			3.4			
			3.4 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
40.90	18.01		New Order	44.75		
			0.10	5.00	0.10	
40.90	3.01		Payment	43.10		
			0.10	5.00	0.10	
17.10	2.01		Delivery	4.05		
			0.10	5.00	0.10	
17.10	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
17.10	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			3.2			
			3.2 tt			

Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
38.50	18.01		New Order	44.75		
			0.10	5.00	0.10	
38.50	3.01		Payment	43.10		
			0.10	5.00	0.10	
16.10	2.01		Delivery	4.05		
			0.10	5.00	0.10	
16.10	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
32.10	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			2.8			
			2.8 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
33.74	18.01		New Order	44.75		
			0.10	5.00	0.10	
33.74	3.01		Payment	43.10		
			0.10	5.00	0.10	
14.14	2.01		Delivery	4.05		
			0.10	5.00	0.10	
14.14	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
28.14	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			2.6			
			2.6 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
31.30	18.01		New Order	44.75		
			0.10	5.00	0.10	
31.30	3.01		Payment	43.10		
			0.10	5.00	0.10	
13.10	2.01		Delivery	4.05		
			0.10	5.00	0.10	
13.10	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
26.10	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			2.4			
			2.4 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
28.90	18.01		New Order	44.75		
			0.10	5.00	0.10	
28.90	3.01		Payment	43.10		
			0.10	5.00	0.10	
12.10	2.01		Delivery	4.05		
			0.10	5.00	0.10	
12.10	2.01		Stock Level	4.05		
			0.10	20.00	0.10	

24.10	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			2.2			
			2.2 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
28.90	18.01		New Order	44.75		
			0.10	5.00	0.10	
28.90	3.01		Payment	43.10		
			0.10	5.00	0.10	
12.10	2.01		Delivery	4.05		
			0.10	5.00	0.10	
12.10	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
24.12	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			2.0			
			2.0 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
24.10	18.01		New Order	44.75		
			0.10	5.00	0.10	
24.10	3.01		Payment	43.10		
			0.10	5.00	0.10	
10.10	2.01		Delivery	4.05		
			0.10	5.00	0.10	
10.10	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
20.10	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			5.0			
			5.0 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
60.25	18.01		New Order	44.75		
			0.10	5.00	0.10	
60.25	3.01		Payment	43.10		
			0.10	5.00	0.10	
25.25	2.01		Delivery	4.05		
			0.10	5.00	0.10	
25.25	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
50.25	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			4.5			
			4.5 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
54.20	18.01		New Order	44.75		
			0.10	5.00	0.10	

54.20	3.01		Payment	43.10		
			0.10	5.00	0.10	
22.70	2.01		Delivery	4.05		
			0.10	5.00	0.10	
22.70	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
45.20	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			3.5			
			3.5 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
42.10	18.01		New Order	44.75		
			0.10	5.00	0.10	
42.10	3.01		Payment	43.10		
			0.10	5.00	0.10	
17.60	2.01		Delivery	4.05		
			0.10	5.00	0.10	
17.60	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
35.10	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.8			
			1.8 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
21.60	18.01		New Order	44.75		
			0.10	5.00	0.10	
21.60	3.01		Payment	43.10		
			0.10	5.00	0.10	
9.09	2.01		Delivery	4.05		
			0.10	5.00	0.10	
9.09	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
18.09	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			4.2			
			4.2 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
54.20	18.01		New Order	44.75		
			0.10	5.00	0.10	
54.20	3.01		Payment	43.10		
			0.10	5.00	0.10	
22.70	2.01		Delivery	4.05		
			0.10	5.00	0.10	
22.70	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
45.20	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.6			
			1.6 tt			

Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
19.20	18.01		New Order	44.75		
			0.10	5.00	0.10	
19.20	3.01		Payment	43.10		
			0.10	5.00	0.10	
8.08	2.01		Delivery	4.05		
			0.10	5.00	0.10	
8.08	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
16.08	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.4			
			1.4 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
16.87	18.01		New Order	44.75		
			0.10	5.00	0.10	
16.87	3.01		Payment	43.10		
			0.10	5.00	0.10	
7.07	2.01		Delivery	4.05		
			0.10	5.00	0.10	
7.07	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
14.07	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.2			
			1.2 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
14.46	18.01		New Order	44.83		
			0.10	5.00	0.10	
14.46	3.01		Payment	43.05		
			0.10	5.00	0.10	
6.06	2.01		Delivery	4.04		
			0.10	5.00	0.10	
6.06	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
12.06	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			3.5			
			3.5 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
42.10	18.01		New Order	44.75		
			0.10	5.00	0.10	
42.10	3.01		Payment	43.10		
			0.10	5.00	0.10	
17.60	2.01		Delivery	4.05		
			0.10	5.00	0.10	
17.60	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
17.60	2.01		Order Status	4.05		
			0.10	20.00	0.10	

35.10	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.9			
			1.9 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
22.89	18.01		New Order	44.75		
			0.10	5.00	0.10	
22.89	3.01		Payment	43.10		
			0.10	5.00	0.10	
9.59	2.01		Delivery	4.05		
			0.10	5.00	0.10	
9.59	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
19.09	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.1			
			1.1 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
13.25	18.01		New Order	44.83		
			0.10	5.00	0.10	
13.25	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.55	2.01		Delivery	4.04		
			0.10	5.00	0.10	
5.55	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
11.05	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.05 better			
			1.05 tt better			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.65	18.01		New Order	44.92		
			0.10	5.00	0.10	
12.65	3.01		Payment	43.01		
			0.10	5.00	0.10	
5.30	2.01		Delivery	4.02		
			0.10	5.00	0.10	
5.30	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
10.55	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.09			
			1.09 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
13.13	18.01		New Order	44.83		
			0.10	5.00	0.10	

13.13	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.50	2.01		Delivery	4.04		
			0.10	5.00	0.10	
5.50	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
10.95	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.08			
			1.08 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
13.01	18.01		New Order	44.83		
			0.10	5.00	0.10	
13.01	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.45	2.01		Delivery	4.04		
			0.10	5.00	0.10	
5.45	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
10.85	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.07			
			1.07 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.89	18.01		New Order	44.83		
			0.10	5.00	0.10	
12.89	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.40	2.01		Delivery	4.04		
			0.10	5.00	0.10	
5.40	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
10.75	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.06			
			1.06 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.77	18.01		New Order	44.83		
			0.10	5.00	0.10	
12.77	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.35	2.01		Delivery	4.04		
			0.10	5.00	0.10	
5.35	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
10.65	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.15			
			1.15 tt			

Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
13.85	18.01		New Order	44.75		
			0.10	5.00	0.10	
13.85	3.01		Payment	43.10		
			0.10	5.00	0.10	
5.80	2.01		Delivery	4.05		
			0.10	5.00	0.10	
5.80	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
11.55	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.25			
			1.25 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
15.06	18.01		New Order	44.83		
			0.10	5.00	0.10	
15.06	3.01		Payment	43.05		
			0.10	5.00	0.10	
6.31	2.01		Delivery	4.04		
			0.10	5.00	0.10	
6.31	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
12.56	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.3			
			1.3 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
15.66	18.01		New Order	44.83		
			0.10	5.00	0.10	
15.66	3.01		Payment	43.05		
			0.10	5.00	0.10	
6.56	2.01		Delivery	4.04		
			0.10	5.00	0.10	
6.56	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
13.06	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.12			
			1.12 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
13.49	18.01		New Order	44.75		
			0.10	5.00	0.10	
13.49	3.01		Payment	43.10		
			0.10	5.00	0.10	
5.65	2.01		Delivery	4.05		
			0.10	5.00	0.10	
5.65	2.01		Stock Level	4.05		
			0.10	20.00	0.10	

11.25	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.18			
			1.18 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
14.21	18.01		New Order	44.75		
			0.10	5.00	0.10	
14.21	3.01		Payment	43.10		
			0.10	5.00	0.10	
5.95	2.01		Delivery	4.05		
			0.10	5.00	0.10	
5.95	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
11.85	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.22			
			1.22 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
14.70	18.01		New Order	44.75		
			0.10	5.00	0.10	
14.70	3.01		Payment	43.10		
			0.10	5.00	0.10	
6.16	2.01		Delivery	4.05		
			0.10	5.00	0.10	
6.16	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
12.26	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.28			
			1.28 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
15.42	18.01		New Order	44.75		
			0.10	5.00	0.10	
15.42	3.01		Payment	43.10		
			0.10	5.00	0.10	
6.46	2.01		Delivery	4.05		
			0.10	5.00	0.10	
6.46	2.01		Stock Level	4.05		
			0.10	20.00	0.10	
12.86	2.01		Order Status	4.05		
			0.10	5.00	0.10	
			1.04			
			1.04 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.53	18.01		New Order	44.83		
			0.10	5.00	0.10	

12.53	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.25	2.01		Delivery	4.04		
			0.10	5.00	0.10	
5.25	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
10.45	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.03			
			1.03 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.41	18.01		New Order	44.83		
			0.10	5.00	0.10	
12.41	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.20	2.01		Delivery	4.04		
			0.10	5.00	0.10	
5.20	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
10.35	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.02			
			1.02 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.29	18.01		New Order	44.83		
			0.10	5.00	0.10	
12.29	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.15	2.01		Delivery	4.04		
			0.10	5.00	0.10	
5.15	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
10.25	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.01			
			1.01 tt			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.17	18.01		New Order	44.83		
			0.10	5.00	0.10	
12.17	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.10	2.01		Delivery	4.04		
			0.10	5.00	0.10	
5.10	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
10.15	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.005_best			
			1.005 tt best			

Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.11	18.01		New Order	44.88		
			0.10	5.00	0.10	
12.11	3.01		Payment	43.02		
			0.10	5.00	0.10	
5.07	2.01		Delivery	4.03		
			0.10	5.00	0.10	
5.07	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
10.10	2.01		Order Status	4.03		
			0.10	5.00	0.10	
			1.001_best			
			1.001 tt best			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.06	18.01		New Order	44.90		
			0.10	5.00	0.10	
12.06	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.06	2.01		Delivery	4.01		
			0.10	5.00	0.10	
5.06	2.01		Stock Level	4.01		
			0.10	20.00	0.10	
10.06	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.03_better			
			1.03 tt more aggressive			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.41	18.01		New Order	44.92		
			0.10	5.00	0.10	
12.41	3.01		Payment	43.01		
			0.10	5.00	0.10	
5.20	2.01		Delivery	4.02		
			0.10	5.00	0.10	
5.20	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
10.35	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.005_better			
			1.005 tt more aggressive			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.11	18.01		New Order	44.90		
			0.10	5.00	0.10	
12.11	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.07	2.01		Delivery	4.01		
			0.10	5.00	0.10	
5.07	2.01		Stock Level	4.03		
			0.10	20.00	0.10	

10.10	2.01		Order Status	4.01		
			0.10	5.00	0.10	
			1.02_better			
			1.02 tt more aggressive			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.29	18.01		New Order	44.92		
			0.10	5.00	0.10	
12.29	3.01		Payment	43.01		
			0.10	5.00	0.10	
5.15	2.01		Delivery	4.02		
			0.10	5.00	0.10	
5.15	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
10.25	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.01_best			
			1.01 tt best			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.05	18.01		New Order	44.90		
			0.10	5.00	0.10	
12.05	3.01		Payment	43.05		
			0.10	5.00	0.10	
5.05	2.01		Delivery	4.01		
			0.10	5.00	0.10	
5.05	2.01		Stock Level	4.01		
			0.10	20.00	0.10	
10.05	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.02_best			
			1.02 tt best			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.29	18.01		New Order	44.96		
			0.00	5.00	0.00	
12.29	3.01		Payment	43.00		
			0.00	5.00	0.00	
5.15	2.01		Delivery	4.00		
			0.00	5.00	0.00	
5.15	2.01		Stock Level	4.03		
			0.00	20.00	0.00	
10.25	2.01		Order Status	4.01		
			0.00	5.00	0.00	
			1.03_best			
			1.03 tt best			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.41	18.01		New Order	44.96		
			0.10	5.00	0.10	

12.41	3.01		Payment	43.01		
			0.10	5.00	0.10	
5.20	2.01		Delivery	4.01		
			0.10	5.00	0.10	
5.20	2.01		Stock Level	4.01		
			0.10	20.00	0.10	
10.35	2.01		Order Status	4.01		
			0.10	5.00	0.10	
			5.5			
			5.5 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
66.28	18.01		New Order	44.83		
			0.10	5.00	0.10	
66.28	3.01		Payment	43.05		
			0.10	5.00	0.10	
27.77	2.01		Delivery	4.04		
			0.10	5.00	0.10	
27.77	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
55.27	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			6.0			
			6.0 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
72.30	18.01		New Order	44.83		
			0.10	5.00	0.10	
72.30	3.01		Payment	43.05		
			0.10	5.00	0.10	
30.30	2.01		Delivery	4.04		
			0.10	5.00	0.10	
30.30	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
60.30	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			6.5			
			6.5 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
79.53	18.01		New Order	44.83		
			0.10	5.00	0.10	
79.53	3.01		Payment	43.05		
			0.10	5.00	0.10	
33.33	2.01		Delivery	4.04		
			0.10	5.00	0.10	
33.33	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
66.33	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			7.0			
			7.0 tt			

Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
84.35	18.01		New Order	44.83		
			0.10	5.00	0.10	
84.35	3.01		Payment	43.05		
			0.10	5.00	0.10	
35.35	2.01		Delivery	4.04		
			0.10	5.00	0.10	
35.35	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
70.35	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			7.5			
			7.5 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
90.38	18.01		New Order	44.83		
			0.10	5.00	0.10	
90.38	3.01		Payment	43.05		
			0.10	5.00	0.10	
37.88	2.01		Delivery	4.04		
			0.10	5.00	0.10	
37.88	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
75.38	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			8.0			
			8.0 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
96.40	18.01		New Order	44.83		
			0.10	5.00	0.10	
96.40	3.01		Payment	43.05		
			0.10	5.00	0.10	
40.40	2.01		Delivery	4.04		
			0.10	5.00	0.10	
40.40	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
80.40	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			8.5			
			8.5 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
102.43	18.01		New Order	44.83		
			0.10	5.00	0.10	
192.43	3.01		Payment	43.05		
			0.10	5.00	0.10	
42.92	2.01		Delivery	4.04		
			0.10	5.00	0.10	
42.92	2.01		Stock Level	4.04		
			0.10	20.00	0.10	

85.42	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			9.0			
			9.0 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
108.45	18.01		New Order	44.83		
			0.10	5.00	0.10	
108.45	3.01		Payment	43.05		
			0.10	5.00	0.10	
45.45	2.01		Delivery	4.04		
			0.10	5.00	0.10	
45.45	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
90.45	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			9.5			
			9.5 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
114.47	18.01		New Order	44.83		
			0.10	5.00	0.10	
114.47	3.01		Payment	43.05		
			0.10	5.00	0.10	
47.98	2.01		Delivery	4.04		
			0.10	5.00	0.10	
47.98	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
95.47	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			10			
			10 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
120.50	18.01		New Order	44.83		
			0.10	5.00	0.10	
120.50	3.01		Payment	43.05		
			0.10	5.00	0.10	
50.50	2.01		Delivery	4.04		
			0.10	5.00	0.10	
50.50	2.01		Stock Level	4.04		
			0.10	20.00	0.10	
100.50	2.01		Order Status	4.04		
			0.10	5.00	0.10	
			1.02 better			
			1.02 more aggressive			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
12.05	18.01		New Order	44.92		
			0.10	5.00	0.10	

12.05	3.01	Payment	43.01		
		0.10	5.00	0.10	
5.05	2.01	Delivery	4.02		
		0.10	5.00	0.10	
5.05	2.01	Stock Level	4.03		
		0.10	20.00	0.10	
10.05	2.01	Order Status	4.02		
		0.10	5.00	0.10	

1.01 better
1.01 more aggressive

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.17	18.01	New Order	44.92		
		0.10	5.00	0.10	
12.17	3.01	Payment	43.01		
		0.10	5.00	0.10	
5.10	2.01	Delivery	4.02		
		0.10	5.00	0.10	
5.10	2.01	Stock Level	4.03		
		0.10	20.00	0.10	
10.15	2.01	Order Status	4.02		
		0.10	5.00	0.10	

1.001 better
1.001 more aggressive

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.06	18.01	New Order	44.92		
		0.10	5.00	0.10	
12.06	3.01	Payment	43.01		
		0.10	5.00	0.10	
5.06	2.01	Delivery	4.02		
		0.10	5.00	0.10	
5.06	2.01	Stock Level	4.03		
		0.10	20.00	0.10	
10.06	2.01	Order Status	4.02		
		0.10	5.00	0.10	

FullSpeed
1.000 tt

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.05	18.01	New Order	44.92		
		0.10	5.00	0.10	
12.05	3.01	Payment	43.01		
		0.10	5.00	0.10	
5.05	2.01	Delivery	4.02		
		0.10	5.00	0.10	
5.05	2.01	Stock Level	4.03		
		0.10	20.00	0.10	
10.05	2.01	Order Status	4.02		
		0.10	5.00	0.10	

1.003 best
1.003 best

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.09	18.01	New Order	44.90		
		0.10	5.00	0.10	
12.09	3.01	Payment	43.05		
		0.10	5.00	0.10	
5.07	2.01	Delivery	4.01		
		0.10	5.00	0.10	
5.07	2.01	Stock Level	4.03		
		0.10	20.00	0.10	
10.08	2.01	Order Status	4.01		
		0.10	5.00	0.10	

overdrive

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
10.00	18.01	New Order	10.00		
		0.10	5.00	0.10	
10.00	3.01	Payment	10.00		
		0.10	5.00	0.10	
4.00	2.01	Delivery	1.00		
		0.10	5.00	0.10	
4.00	2.01	Stock Level	1.00		
		0.10	20.00	0.10	
8.00	2.01	Order Status	1.00		
		0.10	5.00	0.10	

overdrive-2

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
6.00	18.01	New Order	10.00		
		0.10	5.00	0.10	
6.00	3.01	Payment	10.00		
		0.10	5.00	0.10	
3.00	2.01	Delivery	1.00		
		0.10	5.00	0.10	
3.00	2.01	Stock Level	1.00		
		0.10	20.00	0.10	
6.00	2.01	Order Status	1.00		
		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]
"ListenBackLog"=dword:00000019
"DispatchEntries"=hex(7):4c,00,44,00,41,00,50,00,53,00,56,00,43,00,00,00,00,00
"PoolThreadLimit"=dword:000007fe
"ThreadTimeout"=dword:00015180
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Performance]
"Library"="infcotrs.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,c5,01,10,25,00,00,00,00,0,0,0
"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,00,4e,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,00,6e,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):49,00,49,00,53,00,41,00,44,00,4d,00,49,00,4e,00,00,00,\
00,00
```

```
"DependOnGroup"=hex(7):00,00
"ObjectName"="LocalSystem"
```


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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,\
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00,00,00,22,00,7b,00,\
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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,\
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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,\
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46,00,2d,00,39,00,46,\
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69,00,63,00,65,00,5c,\
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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,
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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,
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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,\
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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,
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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,\

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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):25,00,53,00,79,00,73,00,74,00,65,00,6d,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,\
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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,\
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,94,64,75,1e,10,6d,7e,6a,97,a2,1b,3f,\
85,e6,6b,41,82,d7,70,e7,71,cc,87,45
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[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}]
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"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,\
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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,\

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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,\
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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,00,0,30,00,00,00,00,00
"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):30,00,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00,00
"NTEContextList"=hex(7):30,00,78,00,30,00,30,00,30,00,30,00,30,00,30,00,30,00,\
32,00,00,00,00,00,78,00,30,00,30,00,30,00,30,00,30,00,30,00,30,00,30,00,30,00,\
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,00,31,00,37,00,0,32,00,2e,00,31,00,31,00,\
2e,00,34,00,39,00,00,00,00,00,00
"SubnetMask"=hex(7):32,00,35,00,35,00,35,00,2e,00,32,00,35,00,35,00,2e,00,30,00,2e,\
00,30,00,00,00,00,00,00
"DefaultGateway"=hex(7):00,00
"DefaultGatewayMetric"=hex(7):00,00

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"DisableDynamicUpdate"=dword:00000000
"EnableAdapterDomainNameRegistration"=dword:00000000
"InterfaceMetric"=dword:00000001
"TCPAllowedPorts"=hex(7):30,00,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00,00
"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,00,0,30,00,00,00,00,00
"SubnetMask"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,00,0,30,00,00,00,00,00
"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,00,0,30,00,00,00,00,00
"SubnetMask"=hex(7):30,00,2e,00,30,00,2e,00,30,00,2e,00,0,30,00,00,00,00,00
"DefaultGateway"=hex(7):00,00
"DefaultGatewayMetric"=hex(7):00,00
"NameServer"=""
"Domain"=""
"DisableDynamicUpdate"=dword:00000000
"EnableAdapterDomainNameRegistration"=dword:00000000
"InterfaceMetric"=dword:00000001
"TCPAllowedPorts"=hex(7):30,00,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00,00
"NTEContextList"=hex(7):30,00,78,00,30,00,30,00,30,00,30,00,30,00,30,00,\
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):30,00,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00,00
"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):30,00,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00,00
"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"

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"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):30,00,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00,00
"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
"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):30,00,00,00,00,00,00
"UDPAllowedPorts"=hex(7):30,00,00,00,00,00,00
"RawIPAllowedProtocols"=hex(7):30,00,00,00,00,00,00
"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

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"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,00,00,00,03,00,00,02,00,00,00,01,
00,00,00,06,00,00,00,02,\
00,00,00,01,00,00,00,00,00,00,02,00,00,00,00,00,00,
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
,00,00,00,00,00,02,\
00,00,00,11,00,00,00,02,00,00,00,03,00,00,00,00,00,
00
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\Tcpip\Performance]
"Close"="CloseTcpIpPerformanceData"
"Collect"="CollectTcpIpPerformanceData"
"Library"="Perfctrs.dll"
"Open"="OpenTcpIpPerformanceData"
"WbemAdapFileType"=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,\

```

```

05,12,00,00,00,02,00,00,00,00,00,00,0c,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,\
00,05,20,00,00,00,23,02,00,00,03,00,00,00,01,01,00,00
,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,00,52,00,6e,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,00,00,00,00
"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

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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_spl_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
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
61
I/O Port 0x00000A00-0x00000A1 resources
I/O Port 0x00000A00-0x00000A1 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 0xF5F00000-0xF7DFFFFFF PCI bus
Memory Address 0xF5F00000-0xF7DFFFFFF 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	0x00000064-0x00000064	Standard 101/102-Key or	IRQ 4	Communications Port (COM1)	OK	
0x00004800-0x000048FF	Base System Device	OK	Microsoft Natural PS/2 Keyboard	OK	IRQ 6	Standard floppy disk controller	OK	
0x00004400-0x000044FF	RAGE XL PCI Family	OK	0x00000220-0x00000223	Extended IO Bus	OK	IRQ 14	Primary IDE Channel	OK
(Microsoft Corporation)	OK					IRQ 24	Smart Array 6i	OK
0x00000A79-0x00000A79	ISAPNP Read Data Port	OK	0x00000240-0x0000025F	Extended IO Bus	OK	IRQ 28	HP NC7782 Gigabit Server Adapter	OK
0x00000279-0x00000279	ISAPNP Read Data Port	OK	0x00000070-0x00000073	Extended IO Bus	OK	IRQ 29	HP NC7782 Gigabit Server Adapter #2	OK
0x00000274-0x00000277	ISAPNP Read Data Port	OK	0x000003F8-0x000003FF	Communications Port		IRQ 34	QLogic Fibre Channel Adapter	OK
0x00000020-0x00000021	Motherboard resources	OK	0x000003F0-0x000003F5	Standard floppy disk controller	OK	IRQ 35	QLogic Fibre Channel Adapter	OK
0x00000020-0x00000021	Programmable interrupt controller	OK	0x000003F7-0x000003F7	Standard floppy disk controller	OK	IRQ 32	QLogic Fibre Channel Adapter	OK
0x00000050-0x00000051	Motherboard resources	OK	0x00002000-0x0000200F	Standard Dual Channel PCI IDE Controller	OK	IRQ 33	QLogic Fibre Channel Adapter	OK
0x00000092-0x00000092	Motherboard resources	OK	0x000001F0-0x000001F7	Primary IDE Channel	OK	IRQ 36	QLogic Fibre Channel Adapter	OK
0x000000A0-0x000000A1	Motherboard resources	OK	0x000003F6-0x000003F6	Primary IDE Channel	OK	IRQ 37	QLogic Fibre Channel Adapter	OK
0x000000A0-0x000000A1	Programmable interrupt controller	OK	0x00000170-0x00000177	Secondary IDE Channel		[Memory]		
0x000000F0-0x000000F1	Motherboard resources	OK	0x00000376-0x00000376	Secondary IDE Channel		Resource Device	Status	
0x00000230-0x00000233	Motherboard resources	OK	0x00005000-0x00005FFF	PCI standard PCI-to-PCI bridge	OK	0xA0000-0xBFFFF	PCI bus	OK
0x00000260-0x00000267	Motherboard resources	OK	0x00005000-0x00005FFF	Smart Array 6i	OK	0xA0000-0xBFFFF	PCI standard PCI-to-PCI bridge	OK
0x000004D0-0x000004D1	Motherboard resources	OK	0x00006000-0x00007FFF	PCI bus	OK	0xA0000-0xBFFFF	RAGE XL PCI Family (Microsoft Corporation)	OK
0x00000800-0x0000081F	Motherboard resources	OK	0x00006000-0x00007FFF	PCI standard PCI-to-PCI bridge	OK	0xF5F00000-0xF7DFFFFF	PCI bus	OK
0x00000840-0x0000085F	Motherboard resources	OK	0x00006000-0x00007FFF	QLogic Fibre Channel Adapter	OK	0xF5F00000-0xF7DFFFFF	PCI standard PCI-to-PCI bridge	OK
0x00000900-0x00000903	Motherboard resources	OK	0x00006400-0x000064FF	QLogic Fibre Channel Adapter	OK	0xF7BF0000-0xF7BF0FFF	Standard OpenHCD USB Host Controller	OK
0x00000904-0x00000907	Motherboard resources	OK	0x00006800-0x000068FF	QLogic Fibre Channel Adapter	OK	0xF7BE0000-0xF7BE0FFF	Standard OpenHCD USB Host Controller	OK
0x00000908-0x0000090B	Motherboard resources	OK	0x00006C00-0x00006CFF	QLogic Fibre Channel Adapter	OK	0xF7BB0000-0xF7BB01FF	Base System Device	OK
0x0000090C-0x0000092E	Motherboard resources	OK	0x00007000-0x00007FFF	PCI standard PCI-to-PCI bridge	OK	0xF7BA0000-0xF7BA07FF	Base System Device	OK
0x0000092F-0x0000092F	Motherboard resources	OK	0x00007000-0x00007FFF	QLogic Fibre Channel Adapter	OK	0xF7B90000-0xF7B91FFF	Base System Device	OK
0x00000930-0x000009FF	Motherboard resources	OK	0x00007400-0x000074FF	QLogic Fibre Channel Adapter	OK	0xF7B00000-0xF7B7FFFF	Base System Device	OK
0x00000C80-0x00000C87	Motherboard resources	OK	[IRQs]			0xF7B00000-0xF7B7FFFF	Base System Device	OK
0x00000CF9-0x00000CF9	Motherboard resources	OK	Resource Device	Status		0xF6000000-0xF6FFFFFF	RAGE XL PCI Family (Microsoft Corporation)	OK
0x00000040-0x00000043	System timer	OK	IRQ 9	Microsoft ACPI-Compliant System	OK	0xF5FF0000-0xF5FF0FFF	RAGE XL PCI Family (Microsoft Corporation)	OK
0x00000080-0x0000008F	Direct memory access controller	OK	IRQ 19	Standard OpenHCD USB Host Controller	OK	0xF7C00000-0xF7CFFFFFFF	PCI standard PCI-to-PCI bridge	OK
0x000000C0-0x000000DF	Direct memory access controller	OK	IRQ 19	Standard OpenHCD USB Host Controller	OK	0xF7CF0000-0xF7CF1FFF	Smart Array 6i	OK
0x00000061-0x00000061	System speaker	OK	IRQ 5	Base System Device	OK	0xF7C80000-0xF7CBFFFF	Smart Array 6i	OK
0x00000060-0x00000060	Standard 101/102-Key or	OK	IRQ 7	Base System Device	OK	0xF7D00000-0xF7DFFFFF	PCI standard PCI-to-PCI bridge	OK
Microsoft Natural PS/2 Keyboard	OK		IRQ 0	System timer	OK	0xF7DF0000-0xF7DFFFFF	HP NC7782 Gigabit Server Adapter	OK
			IRQ 1	Standard 101/102-Key or	OK	0xF7DE0000-0xF7DEFFFF	HP NC7782 Gigabit Server Adapter #2	OK
			PS/2 Keyboard	OK		0xF7E00000-0xF7FFFFFFF	PCI bus	OK
			IRQ 12	PS/2 Compatible Mouse	OK	0xF7E00000-0xF7FFFFFFF	PCI standard PCI-to-PCI bridge	OK
						0xF7EF0000-0xF7EF0FFF	QLogic Fibre Channel Adapter	OK
						0xF7EE0000-0xF7EE0FFF	QLogic Fibre Channel Adapter	OK

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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
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						
	OK	C:\WINDOWS\system32\L3CODECA.ACM	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.						
	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						
	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
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
C:\WINDOWS\system32\MSGSM32.ACM
5.2.3790.0 (srv03_rtm.030324-2048)
20.50 KB (20,992 bytes) 3/25/2003

```

[Video Codecs]

CODEC	Manufacturer	Description	Status	File	Version	Size
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\tsyuv.dll Microsoft Corporation						
	OK	C:\WINDOWS\system32\TSYUV.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\mrle32.dll Microsoft Corporation						
	OK	C:\WINDOWS\system32\MRLE32.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_spl_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_spl_rtm.050324-1447), 51.00 KB
(52,224 bytes), 3/25/2003 6:00 AM)

```

[Sound Device]

Item	Value
Name	RAGE XL PCI Family (Microsoft Corporation)

[Display]

Item	Value
PNP Device ID	PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_27\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
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[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_spl_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_spl_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_spl_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)
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\rasppptp.sys
(5.2.3790.1830 (srv03_spl_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_PPPOEMINIPOINT\0000
Last Reset 9/2/2005 2:03 PM
Index 4
Service Name Rasppoe
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\rasppoe.sys
(5.2.3790.1830 (srv03_spl_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_PTMINIPORT\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_spl_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_spl_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
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

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
 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)

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	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

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
 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
 Driver c:\windows\system32\drivers\cpqccissm.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 0xF7E00000-0xF7EF0FFF
 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	Status	Error Control	Accept	Pause
abiosdsk	Abiosdsk	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
acpi	Microsoft ACPI Driver	c:\windows\system32\drivers\acpi.sys	Kernel Driver	Running	OK	Normal	No	Yes	
acpiec	ACPIEC	c:\windows\system32\drivers\acpiec.sys	Kernel Driver	Stopped	OK	Normal	No	Disabled	No
adpu160m	adpu160m	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
adpu320	adpu320	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
afcmt	afcmt	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
afd	AFD Networking Support Environment	c:\windows\system32\drivers\afd.sys	Kernel Driver	Running	OK	Normal	No	System	Yes
ahal54x	Ahal54x	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
aic78u2	aic78u2	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
aic78xx	aic78xx	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
aliide	AliIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
amd8	AMD K8 Processor Driver	c:\windows\system32\drivers\amd8.sys	Kernel Driver	Stopped	OK	Normal	No	Manual	No
asynsmac	RAS Asynchronous Media Driver	c:\windows\system32\drivers\asynsmac.sys	Kernel Driver	Stopped	OK	Normal	No	Manual	No
atapi	Standard IDE/ESDI Hard Disk Controller	c:\windows\system32\drivers\atapi.sys	Kernel Driver	Running	OK	Normal	No	Boot	Yes

atdisk	Atdisk	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
ati2mpad	ati2mpad	c:\windows\system32\drivers\ati2mpad.sys	Kernel Driver	Running	OK	Ignore	No	Manual	Yes
atmarpc	ATM ARP Client Protocol	c:\windows\system32\drivers\atmarpc.sys	Kernel Driver	Stopped	OK	Normal	No	Manual	No
audstub	Audio Stub Driver	c:\windows\system32\drivers\audstub.sys	Kernel Driver	Running	OK	Normal	No	Manual	Yes
beep	Beep	c:\windows\system32\drivers\beep.sys	Kernel Driver	Running	OK	Normal	No	System	Yes
cbidf2k	cbidf2k	c:\windows\system32\drivers\cbidf2k.sys	Kernel Driver	Stopped	OK	Normal	No	Disabled	No
cd20xrnt	cd20xrnt	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
cdfs	Cdfs	c:\windows\system32\drivers\cdfs.sys	File System Driver	Running	OK	Normal	No	Disabled	Yes
cdrom	CD-ROM Driver	c:\windows\system32\drivers\cdrom.sys	Kernel Driver	Running	OK	Normal	No	System	Yes
changer	Changer	Not Available	Kernel Driver	No	System	Stopped	OK		
clusdisk	Cluster Disk Driver	c:\windows\system32\drivers\clusdisk.sys	Kernel Driver	Stopped	OK	Normal	No	Disabled	No
cmdide	CmdIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
cpqarray	Cpqarray	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
cpqarray2	cpqarray2	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
cpqcissm	cpqcissm	c:\windows\system32\drivers\cpqcissm.sys	Kernel Driver	Running	OK	Normal	No	Boot	Yes

cpqfcac	CPQFCAC	c:\windows\system32\drivers\cpqfcac.sys	Kernel Driver	Running	OK	Normal	No	Boot	Yes
cpqfcalm	cpqfcalm	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
crdisk	CRC Disk Filter Driver	c:\windows\system32\drivers\crdisk.sys	Kernel Driver	Running	OK	Normal	No	Boot	Yes
dac960nt	dac960nt	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
dellcerc	dellcerc	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
dfsdriver	DfsDriver	c:\windows\system32\drivers\dfs.sys	File System Driver	Running	OK	Normal	No	Boot	Yes
disk	Disk Driver	c:\windows\system32\drivers\disk.sys	Kernel Driver	Running	OK	Normal	No	Boot	Yes
dmboot	dmboot	c:\windows\system32\drivers\dmboot.sys	Kernel Driver	Stopped	OK	Normal	No	Disabled	No
dmio	Logical Disk Manager Driver	c:\windows\system32\drivers\dmio.sys	Kernel Driver	Running	OK	Normal	No	Boot	Yes
dmload	dmload	c:\windows\system32\drivers\dmload.sys	Kernel Driver	Running	OK	Normal	No	Boot	Yes
dpti2o	dpti2o	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
fastfat	Fastfat	c:\windows\system32\drivers\fastfat.sys	File System Driver	Stopped	OK	Normal	No	Disabled	No
fdc	Floppy Disk Controller Driver	c:\windows\system32\drivers\fdc.sys	Kernel Driver	Running	OK	Normal	No	Manual	Yes
fips	Fips	c:\windows\system32\drivers\fips.sys	Kernel Driver	Running	OK	Normal	No	System	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	
		Disabled	Stopped	OK	
		Normal	No	No	
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	
		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	
		System	Stopped	OK	
		Normal	No	No	
i2omp	i2omp	Not Available		Kernel Driver	
		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	
		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	
		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	
		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	
		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
mrraid35x	mrraid35x	Not Available		Kernel Driver	
		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				
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	PDFFRAME	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				
rdbs	Rdbss								
	c:\windows\system32\drivers\rdbs.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				
	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		
	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_PTMINIPORT\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_MVID				
	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			
	Available	Not Available			Not
	Available	ROOT\LEGACY_WANARP\0000			
	volsnap	Not Available	LEGACYDRIVER		Not
	Available	Not Available	Not Available		Not
	Available	Not Available	Not Available		Not
	Available	Not Available			
	ROOT\LEGACY_VOLSNAPE\0000				
	VGA Display Controller.	Not Available			
	LEGACYDRIVER	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
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_RDPWD\0000	Not Available
RDPCCDD	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_RDPCCDD\0000	Not Available
Remote Access Auto Connection Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_RASACD\0000	Not Available
qldirect	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_QLDIRECT\0000	Not Available
Partition Manager	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_PARTMGR\0000	Not Available
Null	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NULL\0000	Not Available
NetBios over Tcpip	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NETBT\0000	Not Available
NDProxy	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NDPROXY\0000	Not Available
NDIS Usermode I/O Protocol	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NDISUIO\0000	Not Available
Remote Access NDIS TAPI Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NDIS_TAPI\0000	Not Available
NDIS System Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NDIS\0000	Not Available
mountmgr	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_MOUNTMGR\0000	Not Available
mmdd	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_MMDD\0000	Not Available
ksecdd	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_KSECDD\0000	Not Available
IPSEC driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_IPSEC\0000	Not Available
Smart Array Controllers Non-Miniport Disk Driver	Not Available	LEGACYDRIVER	Not Available
Available	LEGACYDRIVER	Not Available	Not Available

Available	Not Available	Not Available	Not Available
Available	ROOT\LEGACY_HPQCISSD\0000	Not Available	Not Available
Smart Array Controllers Non-Miniport Bus Driver	Not Available	LEGACYDRIVER	Not Available
Available	LEGACYDRIVER	Not Available	Not Available
Available	Not Available	Not Available	Not Available
Available	ROOT\LEGACY_HPQCISB\0000	Not Available	Not Available
Generic Packet Classifier	Not Available	LEGACYDRIVER	Not Available
Available	LEGACYDRIVER	Not Available	Not Available
Available	Not Available	Not Available	Not Available
Available	ROOT\LEGACY_GPC\0000	Not Available	Not Available
Fips	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_FIPS\0000	Not Available
dmload	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_DMLOAD\0000	Not Available
dmboot	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_DMBOOT\0000	Not Available
CRC Disk Filter Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	ROOT\LEGACY_CRCDISK\0000	Not Available	Not Available
Beep	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_BEEP\0000	Not Available
AFD Networking Support Environment	Not Available	LEGACYDRIVER	Not Available
Available	LEGACYDRIVER	Not Available	Not Available
Available	Not Available	Not Available	Not Available
Available	ROOT\LEGACY_AFD\0000	Not Available	Not Available
Generic volume	Yes	VOLUME	5.2.3790.1830
10/1/2002	Microsoft	volume.inf	Not Available
Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B	42OFFSET7E00LENGHTHA36ACAA800	Generic volume
10/1/2002	Microsoft	volume.inf	Not Available
Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B	40OFFSET10000LENGTH9C3D00000	Generic volume
10/1/2002	Microsoft	volume.inf	Not Available
Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B	F6OFFSET7E00LENGTH9C3DBD800	Generic volume
10/1/2002	Microsoft	volume.inf	Not Available
Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B	F1OFFSET7E00LENGTH1387B82E00	Generic volume
10/1/2002	Microsoft	volume.inf	Not Available
Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B	4FOFFSET10000LENGTH9C3D00000	Generic volume
10/1/2002	Microsoft	volume.inf	Not Available
Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B	4EOFFSET10000LENGTH9C3D00000	Generic volume
10/1/2002	Microsoft	volume.inf	Not Available
Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B	59OFFSET10000LENGTH1387B00000	Generic volume

STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B	36OFFSET7E00LENGHTHA36ACAA800	Generic volume	Yes	VOLUME	5.2.3790.1830
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
49OFFSET10000LENGTH9C3D00000	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
48OFFSET10000LENGTH1387B00000	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
37OFFSET7E00LENGHTHA36ACAA800	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4BOFFSET10000LENGTH9C3D00000	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4A0FFSET10000LENGTH1387B00000	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4DOFFSET10000LENGTH9C3D00000	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
4COFFSET10000LENGTH1387B00000	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
40OFFSET10000LENGTH9C3D00000	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
43OFFSET10000LENGTH1387B00000	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
47OFFSET7E00LENGHTHA36ACAA800	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B
46OFFSET10000LENGTH9C3D00000	Generic volume	Yes	VOLUME	5.2.3790.1830	10/1/2002
10/1/2002	Microsoft	volume.inf	Not Available	Available	STORAGE\VOLUME\1&30A96598&0&SIGNATURE5D679B

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
 30FFSET4000LENGTH87A3D0000
 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&R
 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&R
 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&R
 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&R
 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&R
 V_4.32\5&27D1CD68&1&011
 HP MSA1000 Yes SYSTEM 5.2.3790.1830
 10/1/2002 Compaq scsudev.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&R
 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&R
 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&R
 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&R
 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&R
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 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&R
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 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&R
 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&R
 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
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 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&R
 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
 SCSI\DISK&VEN_COMPAQ&PROD_MSA1000_VOLUME&R
 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
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 EV_5&4B931A3&1&07F0
 Disk drive Yes DISKDRIVE 5.2.3790.0
 10/1/2002 (Standard disk drives)
 disk.inf Not Available
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 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&R
 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&R
 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&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
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 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
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 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 scsasidev.inf Not
 Available

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
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 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
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 36\5&3797EA60&0&050
 Disk drive Yes DISKDRIVE 5.2.3790.0
 10/1/2002 (Standard disk drives)
 disk.inf Not Available
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 36\5&3797EA60&0&040
 Compaq Virtual LUN Yes SYSTEM 5.2.3790.0
 10/1/2002 Compaq scsasidev.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
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 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
 PCI\IDE\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
 PCI\IDE\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
 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

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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\AV00402\5&38B1FFCB&0&80000001&01&03

RAGE XL PCI Family (Microsoft Corporation) Yes
DISPLAY 5.10.2600.6014              8/8/2001 ATI
Technologies Inc. atixpad.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
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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
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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

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PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
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PCI standard PCI-to-PCI bridge        Yes
SYSTEM 5.2.3790.0                    10/1/2002
(Standard system devices)           machine.inf
Not Available
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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
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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
Available Not Available               Not Available
HTRREE\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>
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;.WSH <SYSTEM>
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PROCESSOR_IDENTIFIER x86 Family 15 Model 33
Stepping 2, AuthenticAMD <SYSTEM>
PROCESSOR_LEVEL      15 <SYSTEM>
PROCESSOR_REVISION   2102 <SYSTEM>
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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]
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
system idle process Not Available 0 0
Not Available      Not Available  Not Available  Not
Available Not Available      Not Available  Not
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
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_spl_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_spl_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_spl_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_spl_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
svchost.exe c:\windows\system32\svchost.exe
2000 8 204800 1413120
9/2/2005 2:04 PM 5.2.3790.1830
(srv03_spl_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_spl_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

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winlogon.exe c:\windows\system32\winlogon.exe
208 13 204800 1413120
9/2/2005 2:06 PM 5.2.3790.1830
(srv03_spl_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_spl_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_spl_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_spl_rtm.050324-1447) 14.00 KB (14,336 bytes)
6/3/2005 2:15 PM
helpctr.exe c:\windows\pchealth\helpctr\binaries\helpctr
3280 8 204800 1413120
9/6/2005 4:44 PM 5.2.3790.1830
(srv03_spl_rtm.050324-1447) 778.00 KB (796,672
bytes) 6/3/2005 2:16 PM
helpsvc.exe c:\windows\pchealth\helpctr\binaries\helpsv
3416 8 204800 1413120
9/6/2005 4:44 PM 5.2.3790.1830
(srv03_spl_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_spl_rtm.050324-1447)
497.00 KB (508,928 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\winlogon.exe
ntdll 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
748.50 KB (766,464 bytes) 3/25/2003
Microsoft Corporation
6:00 AM c:\windows\system32\ntdll.dll
kernel32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
1,014.00 KB (1,038,336 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\kernel32.dll
advapi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
605.50 KB (620,032 bytes) 3/25/2003
Microsoft Corporation
6:00 AM c:\windows\system32\advapi32.dll
rpcrt4 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
627.00 KB (642,048 bytes) 6/3/2005 2:15

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PM Microsoft Corporation
c:\windows\system32\rpcrt4.dll
crypt32 5.131.3790.1830 (srv03_spl_rtm.050324-1447)
582.00 KB (595,968 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\crypt32.dll
msasn1 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
56.50 KB (57,856 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\msasn1.dll
msvcrt 7.0.3790.1830 (srv03_spl_rtm.050324-1447)
340.50 KB (348,672 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\msvcrt.dll
user32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
574.50 KB (588,288 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\user32.dll
gdi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
273.00 KB (279,552 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\gdi32.dll
nddeapi 5.2.3790.0 (srv03_rtm.030324-2048)
16.00 KB (16,384 bytes) 3/25/2003
Microsoft Corporation
6:00 AM c:\windows\system32\nddeapi.dll
profmap 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
22.50 KB (23,040 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\profmap.dll
netapi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
341.50 KB (349,696 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\netapi32.dll
userenv 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
771.00 KB (789,504 bytes) 3/25/2003
Microsoft Corporation
6:00 AM c:\windows\system32\userenv.dll
psapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
20.00 KB (20,480 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\psapi.dll
regapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
55.00 KB (56,320 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\regapi.dll
secur32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
64.00 KB (65,536 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\secur32.dll
setupapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
1.03 MB (1,079,808 bytes) 3/25/2003
Microsoft Corporation
6:00 AM c:\windows\system32\setupapi.dll
version 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
18.00 KB (18,432 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\version.dll
winsta 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
54.50 KB (55,808 bytes) 6/3/2005 2:15
Microsoft Corporation
PM c:\windows\system32\winsta.dll

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ws2_32 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_6595b64144ccfd6.6.0.3790.1830_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
174.50 KB (178,688 bytes) 6/3/2005 2:15
PM Microsoft Corporation
c:\windows\system32\wldap32.dll
csccdll 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
100.00 KB (102,400 bytes) 6/3/2005 2:15
PM Microsoft Corporation
c:\windows\system32\csccdll.dll
dimntfy 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
19.00 KB (19,456 bytes) 6/3/2005 2:18
PM Microsoft Corporation
c:\windows\system32\dimntfy.dll
wlnotify 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_6595b64144ccfd6.5.82.3790.1830_x-
ww_lb6f474a\comctl32.dll
uxtheme 6.00.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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
sclogntfy 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\sclogntfy.dll
drprov 5.2.3790.1830 (srv03_spl_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_spl_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
netuil 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\netuil.dll
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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
221.00 KB (226,304 bytes) 6/3/2005 2:16
PM Microsoft Corporation
c:\windows\system32\wbem\wbemcomn.dll
wbemsvcs 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\wbemsvcs.dll
fastprox 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
471.00 KB (482,304 bytes) 6/3/2005 2:16
PM Microsoft Corporation
c:\windows\system32\wbem\fastprox.dll
msvc60 6.05.2144.0 388.00 KB (397,312
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\msvc60.dll
ntdsapi 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
327.00 KB (334,848 bytes) 6/3/2005 2:15
PM Microsoft Corporation
c:\windows\system32\scesrv.dll
umpnpgmr 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
126.50 KB (129,536 bytes) 6/3/2005 2:15
PM Microsoft Corporation
c:\windows\system32\umpnpgmr.dll
eventlog 5.2.3790.1830 (srv03_spl_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_spl_rtm.050324-1447)
803.00 KB (822,272 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\lsasrv.dll
samsvr 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
450.50 KB (461,312 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\samsvr.dll
cryptdll 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
29.50 KB (30,208 bytes) 6/3/2005 2:15
PM Microsoft Corporation
c:\windows\system32\ntdsatq.dll
mwssock 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
250.50 KB (256,512 bytes) 6/3/2005 2:15
PM Microsoft Corporation
c:\windows\system32\mwssock.dll
scecli 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
130.00 KB (133,120 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wkssvc.dll
wiarpc 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
93.50 KB (95,744 bytes) 3/25/2003

6:00 AM Microsoft Corporation
c:\windows\system32\srvc.dll

wmivsc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
140.00 KB (143,360 bytes) 6/3/2005 2:16

PM Microsoft Corporation
c:\windows\system32\wbem\wmivsc.dll

sens 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
194.00 KB (198,656 bytes) 6/3/2005 2:15

PM Microsoft Corporation
c:\windows\system32\activeds.dll

adslrpc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)
146.00 KB (149,504 bytes) 6/3/2005 2:15

PM Microsoft Corporation
c:\windows\system32\adslrpc.dll

credui 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
180.00 KB (184,320 bytes) 6/3/2005 2:15

PM Microsoft Corporation
c:\windows\system32\rastls.dll

cryptui 5.131.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
140.00 KB (143,360 bytes) 6/3/2005 2:15
PM Microsoft Corporation
c:\windows\system32\ntshrui.dll

browsecl 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\browsecl.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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
333.50 KB (341,504 bytes) 6/3/2005 2:15
PM Microsoft Corporation
c:\windows\system32\zipfldr.dll

tapisrv 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
778.00 KB (796,672 bytes) 6/3/2005 2:16
PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpctr

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\hcappres

es.dll

itss 5.2.3790.1830 (srv03_spl_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_spl_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_spl_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_spl_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_spl_rtm.050324-1447)
311.00 KB (318,464 bytes)  6/3/2005 2:15
PM      Microsoft Corporation
        c:\windows\system32\msctf.dll
jscrip  5.6.0.8827      448.00 KB (458,752
bytes)  6/3/2005 2:15 PM  Microsoft Corporation
        c:\windows\system32\jscrip.dll
imm32  5.2.3790.1830 (srv03_spl_rtm.050324-1447)
108.00 KB (110,592 bytes)  6/3/2005 2:15
PM      Microsoft Corporation
        c:\windows\system32\imm32.dll
mshtml  6.00.3790.1830 (srv03_spl_rtm.050324-1447)
454.50 KB (465,408 bytes)  6/3/2005 2:15
PM      Microsoft Corporation
        c:\windows\system32\mshtml.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_spl_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_spl_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_spl_rtm.050324-1447)
92.00 KB (94,208 bytes)  6/3/2005 2:15
PM      Microsoft Corporation
        c:\windows\system32\odbcint.dll
riched3 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
riched2 5.31.23.1224      439.00 KB (449,536
bytes)  6/3/2005 2:15 PM  Microsoft Corporation
        c:\windows\system32\riched20.dll

```

```

helpsv  5.2.3790.1830 (srv03_spl_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 CsiSvc 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 DoomLaunch
Running Auto Share Process
c:\windows\system32\svchost.exe -k
dcomlaunch Normal LocalSystem 0
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
dmdadmin Stopped Manual Share Process
c:\windows\system32\dmdadmin.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 mmsrvc
Stopped Manual Own Process
c:\windows\system32\mmsrvc.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\bin\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\bin\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 NtFrfs Stopped Manual Own
Process c:\windows\system32\ntfrfs.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
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\bin\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 netvcs
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 netvcs
Normal LocalSystem 0

Distributed Link Tracking Client TrkWks
Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netvcs
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\wdmfr.exe
Normal NT AUTHORITY\LocalService 0

Upload Manager uploadmgr Stopped Manual
Share Process
c:\windows\system32\svchost.exe -k netvcs
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 netvcs
Ignore LocalSystem 0
Portable Media Serial Number Service WmdmPmSN
Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0
Windows Management Instrumentation Driver Extensions
Wmi Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0
WMI Performance Adapter WmiApSrv Stopped
Manual Own Process
c:\windows\system32\wbem\wmiaprv.exe
Normal LocalSystem 0
Automatic Updates wuauerv Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0
Wireless Configuration WZCVC Stopped
Disabled Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0
Network Provisioning Service xmlprov Stopped
Manual Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0

[Program Groups]

Group Name Name User Name
Accessories Default User:Accessories
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
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\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
inetcp1.cpl 6.0.3790.1830 358 KB
3/24/2005 6:05:06 PM
C:\WINDOWS\system32 Microsoft Corporation
inetcp1c.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
mshhtml.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
mshtmlmled.dll 6.0.3790.1830 455 KB
3/24/2005 6:07:26 PM
C:\WINDOWS\system32 Microsoft Corporation
mshtmlmer.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]

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 2000 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.

MicrosoftSQLS erver 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\

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\
Server\90\Tools

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\bin\

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 1bfff4b08f8f819f
39 65 30 36 39 38 63 32 - 00
9e0698c2.

Value 4
Name: SqlToolsPath
Type: REG_SZ
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 1bfff4b08f8f819f

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}

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\vsjitdebuggingh
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}
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\Environment\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\Environment\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

```

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Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\AutomationProperties\Environment\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
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\Environment\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\Environment\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\Environment\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\Environment\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: {4A9B7B50-AA16-11d0-A8C5-
 00A0C921A4D2}

Value 3
 Name: ProfileSave
 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
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

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\vd80.
 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.ResXGlobalObjectProvider

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.ResXGlobalObjectProvider

Key Name:
 HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\CLSID\{15d5e750-72dc-466c-alb9-222fbb0c58c0}
 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\vd80.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-alb9-222fbb0c58c0}\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\{15d5e750-72dc-466c-alb9-222fbb0c58c0}\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\vd80.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\vd80.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.AnalysisServicesBuildPropertyPage

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.AnalysisServicesBuildPropertyPage

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.ResourceLoader.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.ResourceLoader

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.VisualStudio.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.VisualStudio.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.ResourceLoader.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.LicXFileGenerator

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.LicXFileGenerator

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-a0f7-26221439alc2}

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\vdvt80.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>
 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\{3e94c4f7-3bc4-4810-8f3d-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\vdvt80.dll

Value 2
 Name: ThreadingModel
 Type: REG_SZ
 Data: Apartment

Key Name:
 HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\CLSID\{3e94c4f7-3bc4-4810-8f3d-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\{3e94c4f7-3bc4-4810-8f3d-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\{3e94c4f7-3bc4-4810-8f3d-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\{3e94c4f7-3bc4-4810-8f3d-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\vdvt80.dll, 1

Key Name:
 HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\CLSID\{3e94c4f7-3bc4-4810-8f3d-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.ResXFileGenerator

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.ResXFileGenerator

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

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_SDMPProgramProvider

Value 1
Name: InprocServer32
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Tools\Binn\VSShell\Common7\Packages\Debugger\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-dbeafdab6a9}
 Class Name: <NO CLASS>
 Last Write Time: 7/19/2005 - 4:22 PM
 Value 0
 Name: <NO NAME>
 Type: REG_SZ
 Data: CQryAutoParameter Class

Value 1
 Name: InprocServer32
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vd80.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-dbeafdab6a9}\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-dbeafdab6a9}\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\Debugger\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\Debugger\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

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.VisualStudio.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.DtsGeneralPropertyPage

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.DtsGeneralPropertyPage

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.VisualStudio.CommonIDE.dll

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\CLSID\{6eaa443-3795-4f98-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\{6eaa443-3795-4f98-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\{6eaa443-3795-4f98-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
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\Microsoft.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\Microsoft.XmlEditor.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\CLSID\{87569308-4813-40A0-9CD0-D7A3083CA3F}\ProgId
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\{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.AdoDotNetRootObjectEnumerator

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-11d2-8914-000F87579D2}
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

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\vd80.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

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\{9E0A02EB-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

Value 1
Name: InprocServer32
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\Tools\VDT\vd80.
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\vd80.
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\vd80.
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
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,
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
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\SqlToolsVSNAtive
Helpers.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\vd80.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\vd80.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\vd80.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\vd80.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

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.DataTransformationsDeploymentUtilityPropertyPage

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.DataTransformationsDeploymentUtilityPropertyPage

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

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-belc-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-belc-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-belc-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-belc-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\Microsoft.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-belc-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\Microsoft.XmlEditor.dll

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\CLSID\{f6819a78-a205-47b5-belc-675b3c7f0b8e}\ProgId
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.VsSettingsPackage

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.VisualStudio.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.OleDbAccessConnectionProperties, 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\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.OleDbJetDataSourceInformation, 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\MSDAOA.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.OleDbOracleConnectionProperties, 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\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.OleDbOracleDataSourceInformation, 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.OleDbSqlConnectionProperties, 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\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.OleDbSqlConnectionDataSourceInformation,

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-FBF6B0548B80}\Specialization\SQLOLEDB.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.OleDbSqlConnectionProperties, 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\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=8.0.0.0, 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\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.OleDbDataSourceInformation,
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\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.OleDbDataSourceInformation,
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\DataConnectionProperties
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\DataConnectionUIControl
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-2CCC7CFC2BB}
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

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-2CCC7CFC2BB}\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-2CCC7CFC2BB}\SupportedObjects\DataConnectionPromptDialog
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-2CCC7CFC2BB}\SupportedObjects\DataConnectionProperties
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\DataConnectionUIControl

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\DataConnectionPromptDialog

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\DataConnectionProperties

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\DataConnectionUIControl

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\DataConnectionPromptDialog
 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\DataConnectionProperties
 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\DataConnectionUIControl
 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>

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,
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.Collections.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.AppSettingsReaderMetadata, 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.Configuration.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.AppSettingsReaderMetadata, 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.Configuration.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.InstallerMetadata, 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.Diagnostics.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.Diagnostics.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.PerformanceCounterMetadata, 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.Messaging.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.MessageQueueMetadata, 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.ServiceProcess.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.ServiceBaseMetadata, 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:

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-9b81-186104e8dacl}

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

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

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
 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-CCCL-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

Value 4
Name: AcceptBinaryFiles
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\Editors\{C1D6FA53-CCCL-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-4B-94180C3947D7}\LogicalViews
 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}

Key Name:
 HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\Editors\{C7747503-0E24-4fBE-4B-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-4B-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}\DWEExtensions
 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
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\{CFE630F8-2DB3-44ba-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\{CFE630F8-2DB3-44ba-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 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: wsd1
 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

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\AllDebuggerVarWinds
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-6682EBB2BBDD}

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
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}

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: {CE2ECD5-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
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-A143-0E80ECBC7FC9}

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
 Type: REG_SZ
 Data: {c77981ec-bal9-3348-878f-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-bal9-3348-878f-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-bal9-3348-878f-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.ResXGlobalObjectProvider

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
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

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\{ADE2EB99-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

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

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
 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\{b968e165-98e0-41f0-8fbc-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

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-belc-
 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\CodeExpansions\XML
 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\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-belc-
 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-belc-
 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-belc-
 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: {BIAABE06-845A-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: {BIAABE06-845A-4c56-9144-
 AA6FDB7D390D}

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-belc-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-belc-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
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


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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-belc-
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-belc-
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-belc-
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: Web Service Description Language

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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-belc-
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-belc-
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\.xaml
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>

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Type: REG_SZ
Data: {f6819a78-a205-47b5-belc-
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\.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-belc-
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}

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
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

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\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\SQLCE\Debugger Languages
 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: MaxErrorMessage
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-1b4839cd8a1}

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\XML
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
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\TemplatesDir
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\TemplatesDir\{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\TemplatesDir\{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

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 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
 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

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: vsslui.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.Editors.
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: Microsoft.SqlServer.Management.UI.VSIntegration.Editors.
EditorFactoryPackage

Data: Visual Studio Commands Definition
Package
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.DWDesign
erPackage
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: vl.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}\DWPProjects
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}\DWPProjects\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.Serialization.TextBufferDocumentObject, Microsoft.DataWarehouse.VsIntegration, PublicKeyToken=89845dcd8080cc91

Value 2
Name: Project
Type: REG_SZ
Data: Microsoft.DataWarehouse.VsIntegration.Designer.Serialization.TextBufferDocumentObject, Microsoft.DataWarehouse.VsIntegration, PublicKeyToken=89845dcd8080cc91

Data: {d2abab84-bf74-430a-b69e-9dc6d40dda17}

Value 3
Name: ProjectManager
Type: REG_SZ
Data: Microsoft.AnalysisServices.Project.AnalysisServicesProjectManager, 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}\DWPProjects\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.DatabaseOnlineDocumentObject, 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.OnlineAnalysisServicesProjectManager, Microsoft.AnalysisServices.Project, PublicKeyToken=89845dcd8080cc91

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-abee-0aba3a8527f1}\DWPProjects\dtproj
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.DataWarehouse.VsIntegration.Designer.Serialization.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.DataTransformationsProjectManager, 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}\DWPProjects\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.OnlineDataTransformationServicesProjectDocumentObject, 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.OnlineDataTransformationsProjectManager,
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.Serialization.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.AnalysisServicesProjectManager, 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.DatabaseOnlineDocumentObject,
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.OnlineAnalysisServicesProjectManager,
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.Serialization.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.ViewersProjectManager,
Microsoft.AnalysisServices.Project,
PublicKeyToken=89845dcd8080cc91

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\BISolution\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.dwproj

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: CSharpADOMDProc
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Busin
ess 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\VBDWizards\AMOSToredProc
edure.vsz

Value 9
Name: VBADOMDProc
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\Business
Intelligence
Wizards\LanguageProjects\VB\VBDWizards\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\VBDWizards\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\VBDWizards\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: JSharpADOMDProc
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
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_Vviewer
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\Microsoft_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\Microsoft_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\Microsoft_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
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\Microsoft_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\Microsoft_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.SequenceClusterViewer

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\Microsoft_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\Microsoft_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
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.UsageBasedOptimization
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.SCDWiz
ardMetadata
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
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.SCDWiz
ardMetadata
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: 0xffffffff

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: 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: 0xffffffff

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\SerializableComponents
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
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.PartitionsSet, 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: dtax
Type: REG_SZ
Data: Microsoft.DataTransformationServices.Design.Serialization.PseudoPackage, Microsoft.DataTransformationServices.Design

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\Shell\Packages\{4a0c6509-bf90-43da-abee-0aba3a8527f1}\Settings\StandAloneDocuments
Class Name: <NO CLASS>
Last Write Time: 7/19/2005 - 4:22 PM

Value 0
Name: dtax
Type: REG_SZ
Data: Microsoft.DataWarehouse.VsIntegration.Designer.Serialization.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
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: compsvcpkgui.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>
 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.VSCodePackage

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.VisualStudio.UI.dll

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: 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
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.DtsPackage

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
 Data: Microsoft

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.ObjectExplorer.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 SCCVssProvider.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
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\
 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\LanguagePackage.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.AnalysisServicesPackage

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

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.dll

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.AppIDPackage.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
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.VsSettingsPackage

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.VisualStudio.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: ssmobileproj

Value 7
Name: DefaultProjectExtension
Type: REG_SZ
Data: .ssmobileproj

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL 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}\AddItemTemplates\TemplateDirs

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
 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

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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
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

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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

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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

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Value 0
 Name: <NO NAME>
 Type: REG_SZ
 Data: Analysis Server Project

Value 1
 Name: DisplayName
 Type: REG_SZ
 Data: #9

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: #10

Value 6
 Name: PossibleProjectExtensions
 Type: REG_SZ
 Data: ssmasproj

Value 7
 Name: DefaultProjectExtension
 Type: REG_SZ
 Data: .ssmasproj

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

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\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
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

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-0bfd70f8b36} 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-0aaba3a8527f1}

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 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_svcsThreadedWaitDialog

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\{218D0424-9C53-4EAL-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-BC23-7DCLC9B453A3}

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
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
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-D326C81B683F}
 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
 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-3F1EAD6F489}
 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
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

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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-E699-48F2-1B5-5437C0CA4BDB}
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: SVsHelpOnlineFlService 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_svComplusLibrary

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
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-
 a160-4c0dbel6e6fc}
 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_SVSQLCLRReferences

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.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\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: Solution Debugging Assistant
Type: REG_SZ
Data:

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: Solution Build Manager
Type: REG_SZ
Data:

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: IDataConnectionsService
Type: REG_SZ
Data:

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

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
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-clb81c69a0f0}
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}
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-b223562e22f9}
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


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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: Oracle Provider Object Factory
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-belc-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: XML Language Service
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: DynamicTypeService
Type: REG_SZ
Data: DynamicTypeService

```

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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: SQL Server Provider Object Factory
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\

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\VBDWizards\

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%

```

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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\.vpscc
Class Name: <NO CLASS>
Last Write Time: 7/19/2005 - 4:22 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data:
%PROGID_APPIDNAME%.vpscc.%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\.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\.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
ojDepts
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>
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\ProjectDependencies
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\SolutionConfiguration
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\SolutionConfigurationPlatforms
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\SolutionItems
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\SolutionProperties
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\SourceCodeControl
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\{53544C4D-FFD5-48A9-B04A-0700CCD31070}
Class Name: <NO CLASS>
Last Write Time: 7/19/2005 - 4:22 PM
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\{53544C4D-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\{53544C4D-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 06 00 06 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 00H.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
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00 00 00 .....
00001bd0 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 .....

```

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00001bf0 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 .....
00001c10 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 .....
00001c30 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 .....
00001c50 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 .....
00001c70 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 .....
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
.....

```

```

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

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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-9404-6EFC125E4F8}
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}

```

```

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 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>
 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

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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
  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
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\{F7218A30-4648-4994-8A38-2FAP8A992E4F}
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.VisualStudio.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.VisualStudio.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 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.VsOptionPages.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.VsOptionPages.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\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.VsOptionPages.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}

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\General
 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: {B9EFCAP2-9EAE-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\Native
 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\Native\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\Symbols
 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\VisibilityCmdUIContexts
 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

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
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 Server\90\Tools\Shell\ToolsOptionsPages\QueryExecution\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\QueryExecution\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\QueryExecution\SqlServer
Class Name: <NO CLASS>
Last Write Time: 7/19/2005 - 4:22 PM

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\QueryExecution\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\QueryExecution\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\QueryExecution\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
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\AnalysisServicesResultstsGeneral
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

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\SourceControl\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\SourceControl\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\SourceControl\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\SourceControl\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
 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

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\{37cb18d-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

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>
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.VariableToolWindowFactory, 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
 Data: {B1E99781-AB81-11D0-B683-00AA00A3EE26}

Value 6
 Name: ToolWindowFactory
 Type: REG_SZ
 Data: Microsoft.DataTransformationServices.Design.LogToolWindowFactory, 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
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.IVSMDDPrope
 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
 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

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

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-D527742F28E}
 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
 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}

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: Autos
 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: Console I/O
 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
 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
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-DP64-4628-9BD4-025923684F2F}

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
 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

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\Environment_Help_IndexFilter
 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\Environment_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}

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\Environment_Help_SearchFilter
 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\Environment_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\Environment_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\VSPProtocol
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\WMACommand
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

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 Migration 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\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:

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_FullText,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
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: infsoft.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\{1680E7C3-9430-4A51-9B82-1E7E7AE5258}
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
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: infsoft.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: infsoft.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

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: lrp polish.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: lrpollish.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>
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\{EED4C20-7F1B-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\{FD86B5D0-12C6-11CF-
BD31-00AA004BB1F}
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>
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
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
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 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-ECB7-00DD010655AF}
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.L\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 Server\MSSQL.L\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.L\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.L\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.L\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.L\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.L\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 00F.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...l.\.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...l.\.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.....o.x.o.8.
00000180 30 00 30 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.L\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.L\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
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

Value 1
Name: TsaurosFile
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: TsaurosFile
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: TsaurosFile
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: TsaurosFile
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: {A9FFAB02-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: TsaurosFile
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: TsaurosFile

Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsglobal.xml

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
Type: REG_SZ
Data: {20036414-F1AF-11D2-A57F-
006052076F32}

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\svs
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\noiserve.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\ttscht.xml

Value 2

Name: Locale
Type: REG_DWORD
Data: 0xc04

Value 3
Name: WBreakerClass
Type: REG_SZ
Data: {1680E7C3-9430-4A51-9B82-
1E7E7AE5258}

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\ttscht.xml

Value 2
Name: Locale
Type: REG_DWORD
Data: 0x1404

Value 3
Name: WBreakerClass
Type: REG_SZ
Data: {1680E7C3-9430-4A51-9B82-
1E7E7AE5258}

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
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\ttschs.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\MSSQLServer\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\MSSQLServer\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 - @liü&°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

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:

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

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\IPAll
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
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\SQLLEDB
 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 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

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\InstalledVersions
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\InstalledVersions\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\

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

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\
 qi2300
 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&25f4d2ac&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&25f4d2ac&0&3948

Value 4
 Name: 2
 Type: REG_SZ
 Data: PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&25f4d2ac&0&4048

Value 5
 Name: 3
 Type: REG_SZ
 Data: PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&25f4d2ac&0&4148

Value 6
 Name: 4
 Type: REG_SZ
 Data: PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&9630b56&0&4850

Value 7
 Name: 5
 Type: REG_SZ
 Data: PCI\VEN_1077&DEV_2312&SUBSYS_01010E11&REV_02\4&9630b56&0&4950

Appendix D: 60-Day Space

TPC-C 60 Day Space Requirements									
Warehouses	6,104				TpmC	76,214.00			
Table	Rows	Data KB	Index KB	Extra 5% KB	8hr Space	Total Space KB		MSSQL_misc_fg	MSSQL_cs_fg
Warehouse	6,104	656	64	36		756		756	
District	61,040	6,784	80	343		7207		7207	
Customer	183,120,000	133,178,184	8,309,392	7,074,379		148561955			148561955
History	183,120,000	10,693,152	168		2,168,911	10693320		12862231	
New_order	54,936,000	978,816	2,472	49,064		1030352		1030352	
Orders	183,120,000	5,979,432	13,640		3,435,271	5993072		9428343	
Order_line	1,831,190,553	120,078,072	282,832		44,558,028	120360904		164918932	
Item	100,000	9,416	80	475		9971		9971	
Stock	610,400,000	195,328,000	411,904	9,786,995		205526899			205526899
Total		466,252,512	9,020,632	16,911,292	50,162,209	492,184,436		188,257,792	354,088,854
	MB						files=	7	7
Dynamic Space	133,546	Sum of Data for Order, Orderline and History					size=	4,992,000	9,984,000
Static Space	347,103	Sum of Data+Index+5%-Dynamic Space					Total=	34,944,000	69,888,000
Free Space	na	Total Allocated Spac - (Dynamic + Static Space)				8K blocks		279,552,000	559,104,000
Daily Growth	26,679	(Dynamic Space/(W*62.5))*tpmc					OK		OK
Daily Spread	-	(Free Space -1.5*Daily Growth) Zero Assumed							
60 Day Space MB	1,947,844								
60 Day Space GB	1,902.19	GB							
Log Size	368,000.00	MB							
KB Per New Order	3.48	KB							
8 hr log MB	124,494	MB							
8 hr log GB	121.5757	GB							
Space Usage	GB Needed	Disks Measured	GB Priced	Disk Size	Formatted Size				
60 Day Space DB	1,902.19	294	9,972.48	36.4GB	33.920				
			0.00						
			0.00						
Total DB			9,972.48						
8-hr log + mirror	243.1514	4	1117.56	72.8GB	67.84				
				300GB	279.39				
OS, Swap	3	2	67.84	36.4GB	33.920				
Total Storage	2,148.34	GB	11,157.88	GB					

tpmC | 76,214.00

	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	10,693,152	168	11,514,176	296	821,024	128	921,152	0.0593	2,168,911.08	2,118.08
Order	5,979,432	13,648	7,424,992	27,864	1,445,560	13,424	1,458,984	0.0939	3,435,270.80	3,354.76
Order-Line	120,078,072	282,832	138,718,936	568,880	18,640,864	283,248	18,924,112	1.2180	44,558,027.61	43,513.70
										48,986.53
	sum(°) Before		sum(°) After		Num New.					
d_next_o_id	183,181,848		198,717,982		15,536,942					
	Before MB		After MB		Grow MB			KB/New-Order	8-Hr Growth MB	8-Hr Growth GB
Log	47104.80		99977.28		52673.28			3.4847	124,493.51	121.58
								3,588.3783	bytes	
	368000	0.6821695	27.16774							
Database tpcc log used (%)										

Appendix E: *Third Party Letters*

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 \$299.	\$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.

Reference ID: PCguzi0523053436.
Please include this Reference ID in any correspondence regarding this price quote.