



Hewlett-Packard Company

TPC Benchmark™ C
Full Disclosure Report
for
HP ProLiant DL585-G1/2.4GHz
using
Microsoft SQL Server 2000 Enterprise Edition SP3
and
Windows Server 2003, Enterprise Edition SP1

First Edition
May 2004

First Edition –May 2004

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

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

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

Copyright 2004 Hewlett-Packard Company.

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

Printed in U.S.A., 2004

HP, NonStop, ProLiant DL585-G1, and ProLiant are registered trademarks of Hewlett-Packard Company.

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

Xeon is a registered trademark of Intel.

Opteron is a registered trademark of AMD.

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

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

Table of Contents

TABLE OF CONTENTS	III
PREFACE	V
TPC BENCHMARK C OVERVIEW	V
ABSTRACT	VI
OVERVIEW	VI
TPC BENCHMARK C METRICS	VI
STANDARD AND EXECUTIVE SUMMARY STATEMENTS	VI
AUDITOR	VI
GENERAL ITEMS	10
TEST SPONSOR.....	10
APPLICATION CODE AND DEFINITION STATEMENTS	10
PARAMETER SETTINGS	10
CONFIGURATION ITEMS	10
CLAUSE 1 RELATED ITEMS	12
TABLE DEFINITIONS	12
PHYSICAL ORGANIZATION OF DATABASE	12
<i>Benchmarked Configuration:</i>	12
PRICED CONFIGURATION VS. MEASURED CONFIGURATION:	13
INSERT AND DELETE OPERATIONS.....	13
PARTITIONING	13
REPLICATION, DUPLICATION OR ADDITIONS	13
CLAUSE 2 RELATED ITEMS	14
RANDOM NUMBER GENERATION	14
INPUT/OUTPUT SCREEN LAYOUT.....	14
PRICED TERMINAL FEATURE VERIFICATION.....	14
PRESENTATION MANAGER OR INTELLIGENT TERMINAL	14
TRANSACTION STATISTICS	14
QUEUEING MECHANISM	15
CLAUSE 3 RELATED ITEMS	16
TRANSACTION SYSTEM PROPERTIES (ACID)	16
ATOMICITY	16
<i>Completed Transactions</i>	16
<i>Aborted Transactions</i>	16
CONSISTENCY.....	16
ISOLATION	16
DURABILITY	17
<i>Durable Media Failure</i>	17
<i>Instantaneous Interruption and Loss of Memory</i>	17
CLAUSE 4 RELATED ITEMS	19
INITIAL CARDINALITY OF TABLES	19
DATABASE LAYOUT	19
TYPE OF DATABASE.....	20
DATABASE MAPPING.....	20
60 DAY SPACE.....	20

CLAUSE 5 RELATED ITEMS	21
THROUGHPUT	21
KEYING AND THINK TIMES.....	21
RESPONSE TIME FREQUENCY DISTRIBUTION CURVES AND OTHER GRAPHS	22
STEADY STATE DETERMINATION	25
WORK PERFORMED DURING STEADY STATE.....	26
MEASUREMENT PERIOD DURATION.....	26
REGULATION OF TRANSACTION MIX	27
TRANSACTION STATISTICS	27
CHECKPOINT COUNT AND LOCATION	28
CHECKPOINT DURATION.....	28
CLAUSE 6 RELATED ITEMS	29
RTE DESCRIPTIONS.....	29
EMULATED COMPONENTS	29
FUNCTIONAL DIAGRAMS	29
NETWORKS.....	29
OPERATOR INTERVENTION	29
CLAUSE 7 RELATED ITEMS	30
SYSTEM PRICING	30
AVAILABILITY, THROUGHPUT, AND PRICE PERFORMANCE	30
COUNTRY SPECIFIC PRICING.....	30
USAGE PRICING.....	30
CLAUSE 9 RELATED ITEMS	31
AUDITOR'S REPORT.....	31
AVAILABILITY OF THE FULL DISCLOSURE REPORT.....	31

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 5.3.

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 DL585-G1. The operating system used for the benchmark was Windows Server 2003, Enterprise Edition SP1. The DBMS used was Microsoft SQL Server 2000 Enterprise Edition SP3.

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:

123,027 tpmC
\$3.50per tpmC

The availability date is October 31, 2004.

Standard and Executive Summary Statements

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

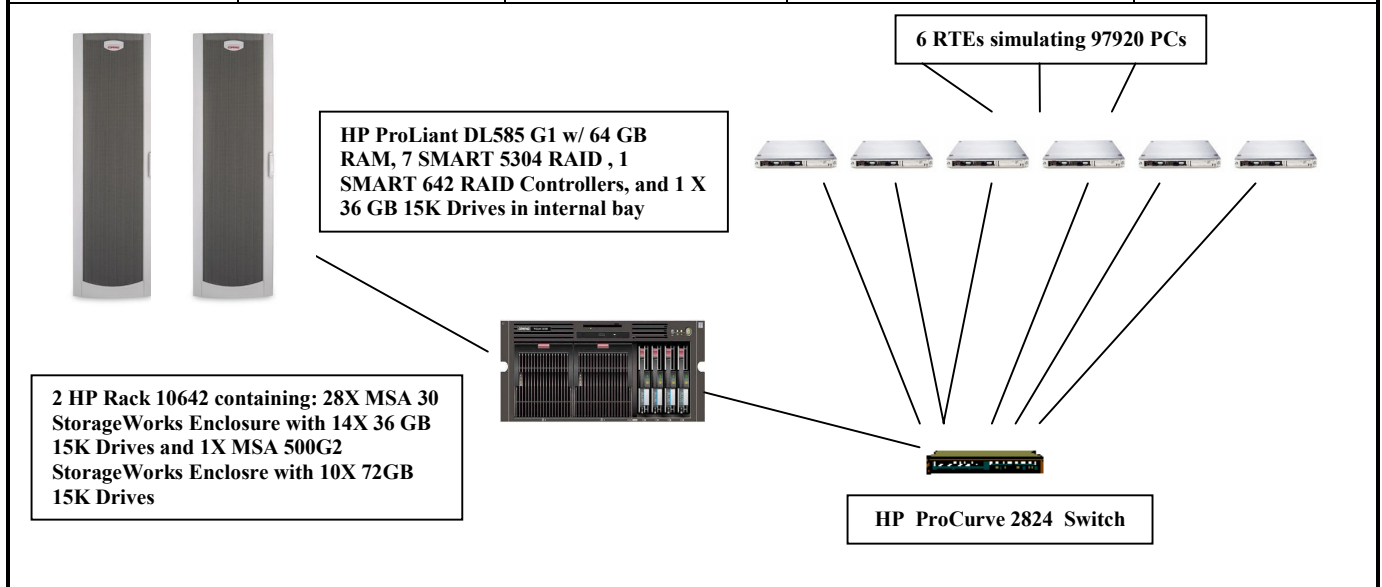
Auditor

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

Hewlett-Packard Company	HP ProLiant DL585-G1/2.4GHz	TPC-C Rev. 5.3
	C/S with 6 HP ProLiant DL360R	Report Date: May 3, 2004

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$430,583	123,027	\$3.50	October 31, 2004

Processors	Database Manager	Operating System	Other Software	Number of Users
4 AMD Opteron 2.4 GHz – Server 6 Intel Xeon 3.06 GHz – Clients	Microsoft SQL Server 2000 Enterprise Edition SP3	Windows Server 2003, Enterprise Edition SP1	Microsoft Visual C++ Microsoft COM+	97920



	Server		Each Client	
System Components	Quantity	Description	Quantity	Description
Processor	4	2.4 GHz AMD Opteron w/ 1M Cache	2	3.06 GHz Intel Xeon w/ 512K cache
Memory	16	4 GB DDR (2 X 2 GB)	2	512MB
Disk Controllers	1	Integrated Smart 5i Controller	1	Integrated SMART 5i Controller
	7	SMART 5304 Array Controllers		
	1	SMART 642 Array Controller		
Disk Drives	10	72 GB SCSI Drive	1	18.2 GB SCSI Drive
	393	36 GB SCSI Drive		
Total Storage		14,001.06 GB		18.2 GB

Hewlett-Packard Company		HP ProLiant DL585 2.4GHz-4P Client/Server			TPC-C Rev. 5.3 Report Date: 3-May-04		
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	3 yr. Maint. Price	
Server Hardware				Brand Pricing			
DL585 2.4GHz (2P) 2GB (4 x 512 KB)- Americas	365504-001		12,999	1	12,999		
DL585 Opteron 850 2.4GHz-1MB Processor Option Kit	366725-B21		4,099	2	8,198		
4GB PC2100 DDR SDRAM DIMM 2x2048 WW	300682-B21		3,499	16	55,984		
MSA30 storage enclosure	302969-B21		2,978	28	83,384		
MSA500G2 Starter Kit (includes MSA500G2 + 2 SA-642 HBAs)	335880-B21		5,349	1	5,349		
MSA500G2 Redundant controller	335881-B21		2,499	1	2,499		
Smart Array 5304/256 Controller	283551-B21		2,247	7	15,729		
Compaq S7500 17" Carbon/Silver S7500 NH/MPR GSA LTNA	261606-169		145	1	145		
PS/2 scroll mse HP carbonite	DK725AV		10	1	10		
HP Enhanced Keyboard	DG170AV#ABA		10	1	10		
Rack 10642 (42U) Standard Pallet WW	245161-B21		1,359	2	2,718		
UPS R1500 XR Low Voltage US	204404-001		866	1	866		
36GB 15K U320 Pluggable Hard Drive	286776-B22		429	393	168,597		
36GB 15K U320 Pluggable Hard Drive (10% Spares external drives)	286776-B22		429	40		17,160	
72GB 15K U320 Pluggable Hard Drive	286778-B22		659	10	6,590		
72GB 15K U320 Pluggable Hard Drive (2 spares)	286778-B22		659	2		1,318	
FM-MI724-36 3YR 24X7 4HR 500 SERIES SVR	401782-002		1,795	1		1,795	
FM-4E724-36 3YR 24X7/4HR EMPTY DISK ENCL	171242-002		157	28		4,396	
HP CP 3Y 4H 24x7 MSA500	U6456A/E		1,950	1		1,950	
Subtotal					363,078	26,619	
Server Software							
Microsoft SQL Server 2000 Enterprise Edition(per processor)	810-00846	Microsoft	2	16,541	4	66,164	Incl Below
Microsoft Visual C++ Standard	254-00170	Microsoft	2	109	1	109	Incl Below
Microsoft Windows 2003 Server, Enterprise Edition SP1	P72-00264	Microsoft	2	2,399	1	2,399	Incl Below
Database Server Support Package 1-year term	PRO-PRORS-16U-01	Microsoft	2	1,950	3		5,850
Subtotal					68,672	5,850	
Client Hardware							
DL360 G3 X3.06GHz 512KB 1024MB 1P RCK US	322471-001		2,699	6	16,194		
Dual Integrated Gigabit NIC, Integrated Smart Array Controller 5i							
X3.06/533-1M DL360G3 ALL	322472-B21		699	6	4,194		
18GB 15K U320 Pluggable Hard Drive WW	286775-B22		269	6	1,614		
FM-EL724-36 3YR 24X7 4HR ENTRY 300 SVR	162675-002		599	6		3,594	
Subtotal					22,002	3,594	
Client Software							
Windows Server 2003, Standard Edition	P73-00295	Microsoft	2	738	6	4,428	Incl. Above
Subtotal					4,428	0	
User Connectivity							
HP ProCurve Switch 2824	J4903A#ABA		2032	1	2,032		
HP Care Packs for HP ProCurve Networking products 3 Yr 4 hr/24x7	U2856A		1080	1		1,080	
Subtotal					2,032	1,080	
Total					(\$61,938)	(\$4,834)	
					\$398,274	\$32,309	
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: \$430,583		
					tpmC Rating: 123027.42		
					\$ / tpmC: \$3.50		
Pricing: 1=HP Direct 2= Microsoft							
Note 1 = Discount based on HP Direct guidance and large cash purchase level.							
Note:The benchmark results and test methodology were audited by Tom Sawyer of Performance Metrics, Inc.							

Numerical Quantities Summary

MQTH, Computed Maximum Qualified Throughput

123,027tpmC

Response Times (in seconds)	Average	90%	Maximum
New-Order	0.25	0.44	5.13
Payment	0.19	0.36	3.97
Order-Status	0.20	0.37	5.07
Delivery (interactive portion)	0.14	0.24	1.66
Delivery (deferred portion)	0.10	0.15	0.50
Stock-Level	0.48	0.72	2.15
Menu	0.14	0.25	1.68

Transaction Mix, in percent of total transaction

New-Order	44.90%
Payment	43.05%
Order-Status	4.00%
Delivery	4.01%
Stock-Level	4.03%

Emulation Delay (in seconds)

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

Keying/Think Times (in seconds)

	Min.	Average	Max.
New-Order	18.00/0.00	18.02/12.09	18.04/120.91
Payment	3.00/0.00	3.02/12.09	3.04/120.91
Order-Status	2.00/0.00	2.02/10.08	2.04/100.81
Delivery (interactive)	2.00/0.00	2.02/5.07	2.04/50.71
Stock-Level	2.00/0.00	2.02/5.07	2.04/50.70

Test Duration

Ramp-up time	21 minutes
Measurement interval	120 minutes
Transactions (all types) completed during measurement interval	34,196,463
Ramp down time	3 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 by not limited to:

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

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

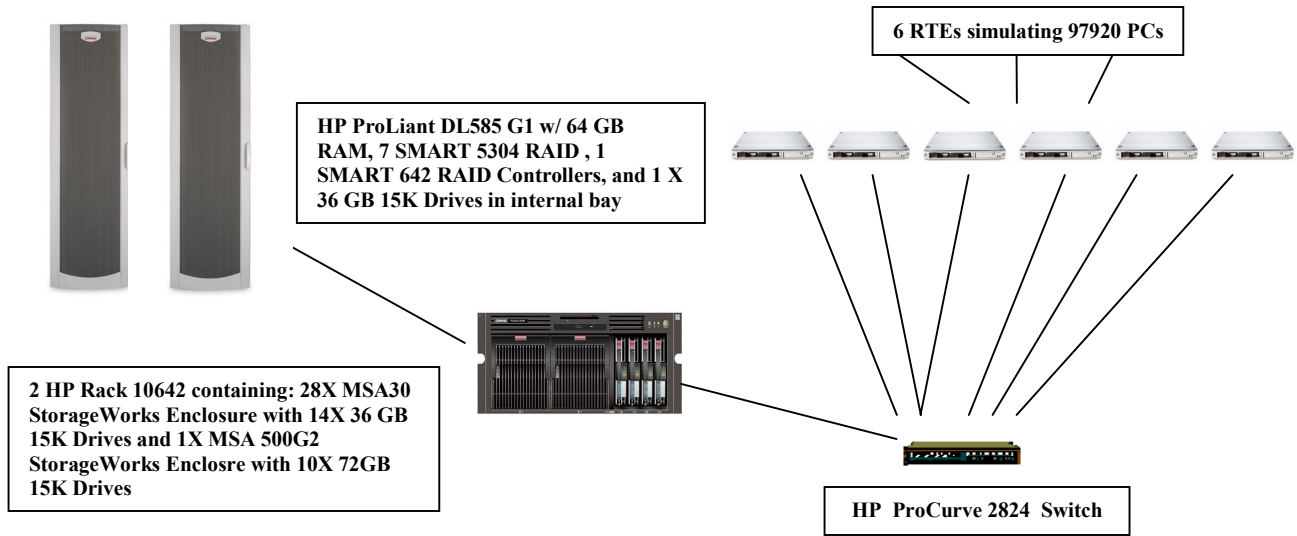
Appendix C contains the tunable parameters to for the database, the operating system, and the transaction monitor.

Configuration Items

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

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

Figure 1. Benchmarked and 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 392 drives at 36GB for database data, 1 36GB drive for the operating system, and 10 drives at 72GB for database log. There were 392 X 36GB drives for database data on seven SMART 5304 controllers, 10 X 72GB drives for the SMART 642 controller connected to an MSA 500G2, and 1 X 36GB drives for the integrated Smart 5i controller.

Benchmarked Configuration:

Integrated Smart 5i Controller, Array A

LOGICAL DRIVE C: Total Capacity = 33.91 GB

Microsoft Windows Server 2003, Enterprise Edition SP1

SMART-642 Controller, Slot 8, Array A

LOGICAL DRIVE E: Total Capacity = 339.17 GB RAID 0+1

MSSQL_tpc_log

SMART-5304 Controller, Slot 1, Array A

LOGICAL DRIVE G: Total Capacity = 90.81GB RAID 0

Cs_fg

LOGICAL DRIVE N: Total Capacity = 40.03GB RAID 0

Misc_fg

LOGICAL DRIVE X: Total Capacity = 884.26GB RAID 0+1

Tpc backup

SMART-5304 Controller, Slot 2, Array A

LOGICAL DRIVE H: Total Capacity = 90.81GB RAID 0

Cs_fg

LOGICAL DRIVE O: Total Capacity = 40.03GB RAID 0

Misc_fg

LOGICAL DRIVE Y: Total Capacity = 884.26GB RAID 0+1

Tpc backup

SMART-5304 Controller, Slot 3, Array A

LOGICAL DRIVE F: Total Capacity = 90.81GB RAID 0

Cs_fg

LOGICAL DRIVE M: Total Capacity = 40.03GB RAID 0

Misc_fg

LOGICAL DRIVE W: Total Capacity = 884.26GB RAID 0+1

Tpc backup

SMART-5304 Controller, Slot 4, Array A

<u>LOGICAL DRIVE J:</u> Cs_fg	<u>Total Capacity = 90.81GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE Q:</u> Misc_fg	<u>Total Capacity = 40.03GB</u>	<u>RAID 0</u>

SMART-5304 Controller, Slot 5, Array A

<u>LOGICAL DRIVE L:</u> Cs_fg	<u>Total Capacity = 90.81GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE S:</u> Misc_fg	<u>Total Capacity = 40.03GB</u>	<u>RAID 0</u>

SMART-5304 Controller, Slot 6, Array A

<u>LOGICAL DRIVE K:</u> Cs_fg	<u>Total Capacity = 90.81GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE R:</u> Misc_fg	<u>Total Capacity = 40.03GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE Z:</u> Tpc backup	<u>Total Capacity = 884.26GB</u>	<u>RAID 0+1</u>

SMART-5304 Controller, Slot 7, Array A

<u>LOGICAL DRIVE I:</u> Cs_fg	<u>Total Capacity = 90.81GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE P:</u> Misc_fg	<u>Total Capacity = 40.03GB</u>	<u>RAID 0</u>

Priced Configuration vs. Measured Configuration:

The measured and priced configurations do not differ.

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 was 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%

Statistic		Value
	Accessed by last name	60.01%
Order Status	Accessed by last name	60.08%
Transaction Mix	New Order	44.90%
	Payment	43.05%
	Order status	4.00%
	Delivery	4.01%
	Stock level	4.03%

Queuing Mechanism

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

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

The source code is listed in Appendix A.

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

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 10% of the benchmark users.
- The test was allowed to run for a minimum of 10 minutes.
- One log disk was removed from the drive cabinet.
- Since the disk was mirrored, processing was not interrupted. This was verified by checking the users status on the RTE.
- One of the data disks was removed from the drive cabinet.
- When Microsoft SQL Server recorded errors about not being able to access the database, the RTE was shut down.
- A dump of the transaction log was taken and the Microsoft SQL Server was shutdown.
- A new log disk was inserted into the log drive cabinet. A new data disk was inserted into the data drive cabinet. After the RAID recovery process finished, the system was rebooted and Microsoft SQL Server was started.
- The database was restored from backup and the transaction log dump was applied.
- Consistency condition #3 was executed and verified.
- Step 2 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 of power erases the contents of memory, the instantaneous interruption and the loss of memory tests were combined into a single test. This test was executed on a fully scaled database of 9792 warehouses under a full load of 97920 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 97920 users.
- The test was allowed to run for a minimum of 10 minutes.
- Pulling the power cords from the SUT induced system crash and loss of memory. No battery backup or Uninterruptible Power Supply (UPS) were used to preserve the contents of memory.
- 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 step 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	9792
District	97920
Customer	293,760,000
History	293,760,000
Orders	293,760,000
New Order	88,128,000
Order Line	2,937,594,567
Stock	979,200,000
Item	100,000
Deleted Warehouses	0

Database Layout

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

The benchmarked configuration used 7 SMART-5304 Array controllers with 4 SCSI channels each. Each controller is capable of accessing up to 14 disk drives per channel, and supports RAID 0, RAID 0+1, RAID 5, and ADG per each logical volume configured. The data tables were stored on 7 RAID arrays of (56) 36GB 15K drives each. Each array was configured as RAID 0 and housed a logical drives for database data. Some of these controllers also housed a RAID 0+1 volume used for backup of the database. The SMART-642 Array controller connected to an MSA 500G2 which had one array consisting of (10) 72GB 15K drives, and housed a RAID 0+1 logical volume for the database log. The operating system was housed internally on the integrated Smart 5i controller on a RAID 1 set of (2) 36GB 15K drives of which one drive was removed, at all times, during the test. The Array Accelerators on the data controllers were configured as 100% write cache and were enabled for all logical drives. The SMART 642 controller had no physical cache module installed, but the redundant controllers in the MSA 500G2 had cache enabled for the transaction log. 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 2000 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 is shown in Appendix D.

Clause 5 Related Items

Throughput

Measured tpmC must be reported

Measured tpmC 123,027 tpmC
Price per tpmC \$3.50per 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	0.25	0.44	5.13
Payment	0.19	0.36	3.97
Order-Status	0.20	0.37	5.07
Interactive Delivery	0.14	0.24	1.66
Deferred Delivery	0.10	0.15	0.50
Stock-Level	0.48	0.72	2.15
Menu	0.14	0.25	1.68

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	18.00	18.02	18.04
Payment	3.00	3.02	3.04
Order-Status	2.00	2.02	2.04
Interactive Delivery	2.00	2.02	2.04
Stock-Level	2.00	2.02	2.04

Table 5.4: Think Times

Type	Minimum	Average	Maximum
New-Order	0.00	12.09	120.91
Payment	0.00	12.09	120.91
Order-Status	0.00	10.08	100.81
Interactive Delivery	0.00	5.07	50.71
Stock-Level	0.00	5.07	50.70

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

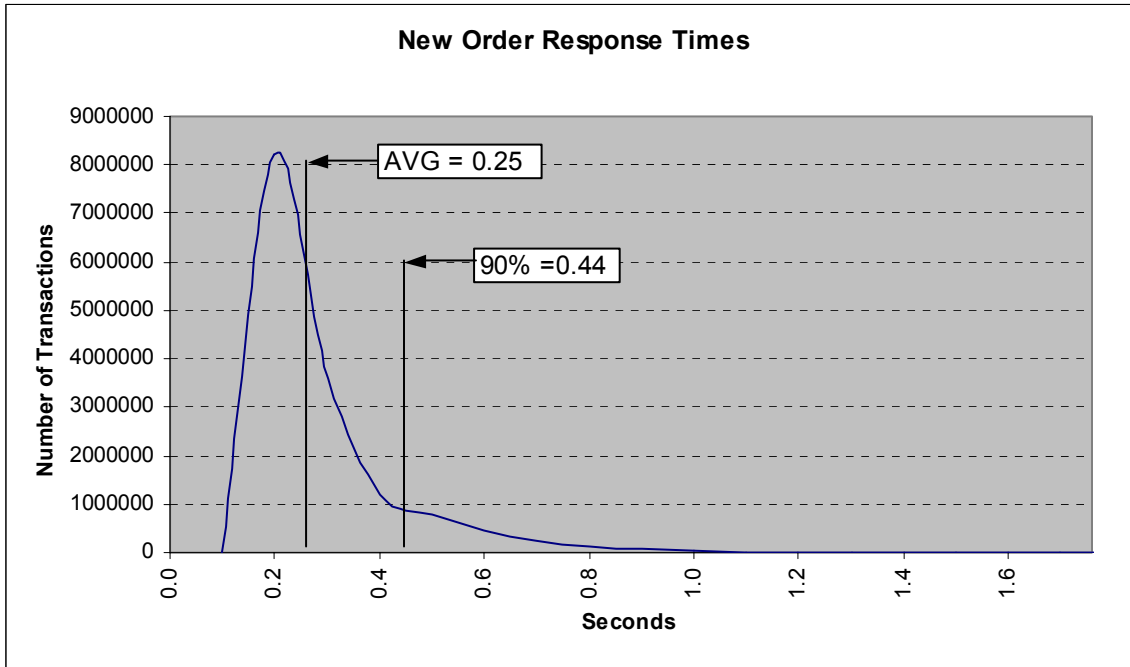


Figure 3. Payment Response Time Distribution

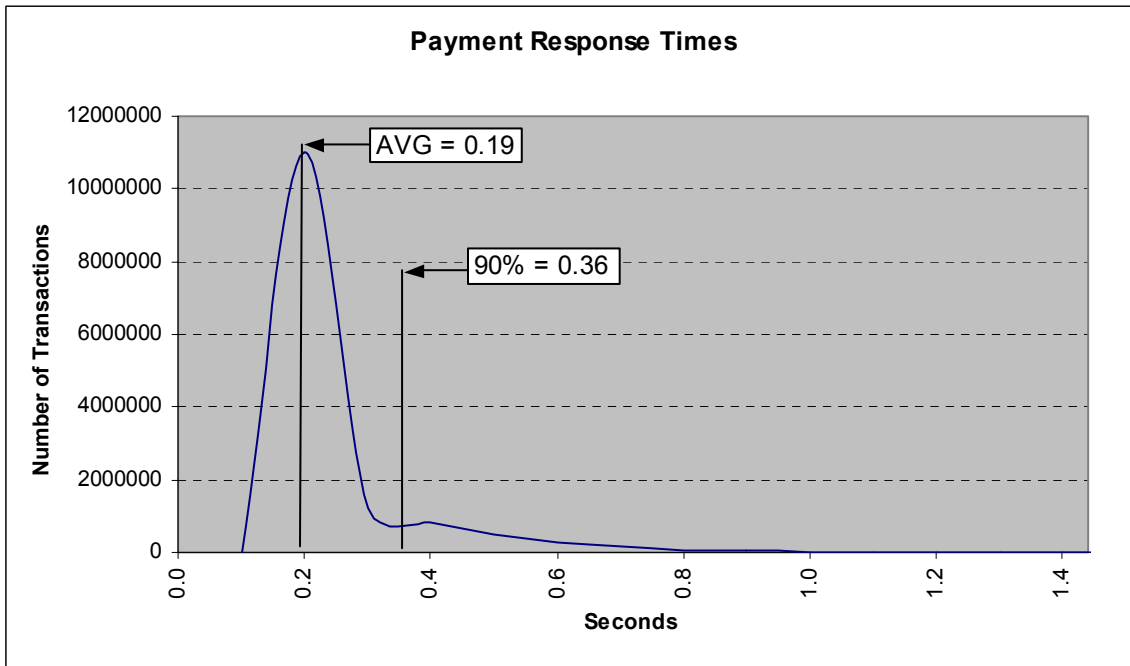


Figure 4. Order Status Response Time Distribution

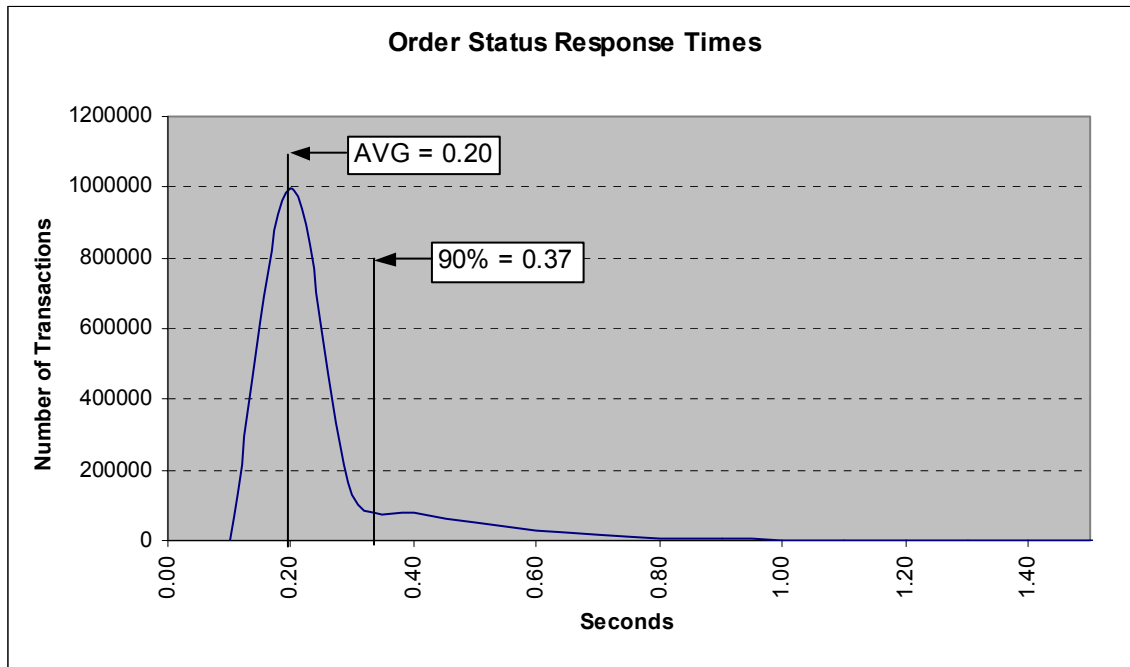


Figure 5. Delivery Response Time Distribution

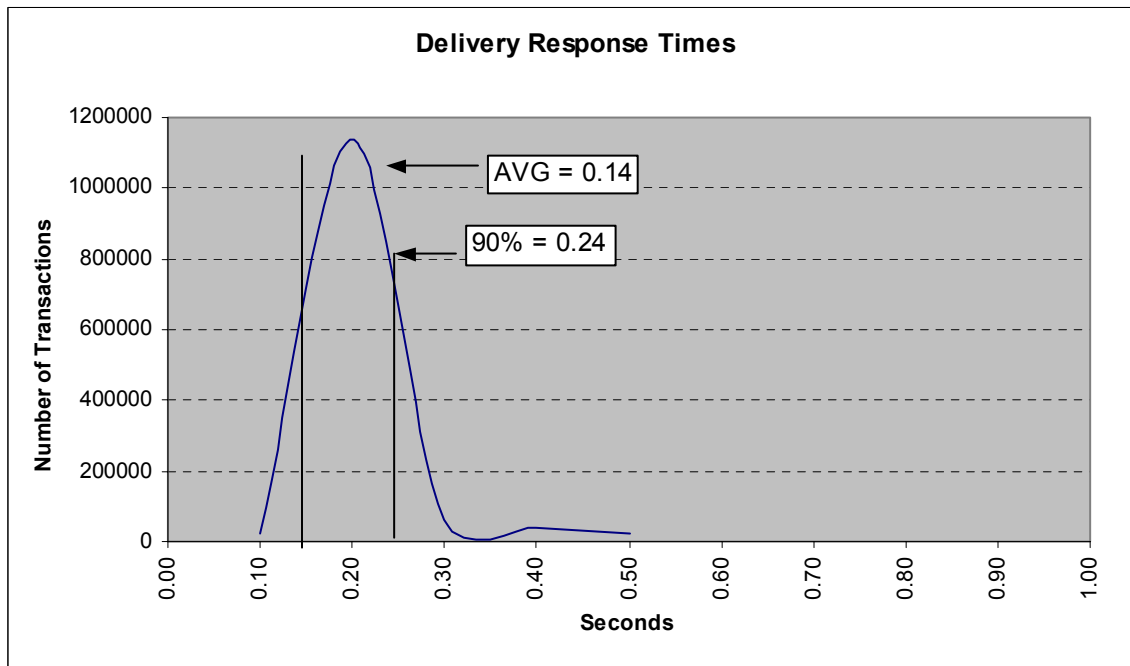


Figure 6. Stock Level Response Time Distribution

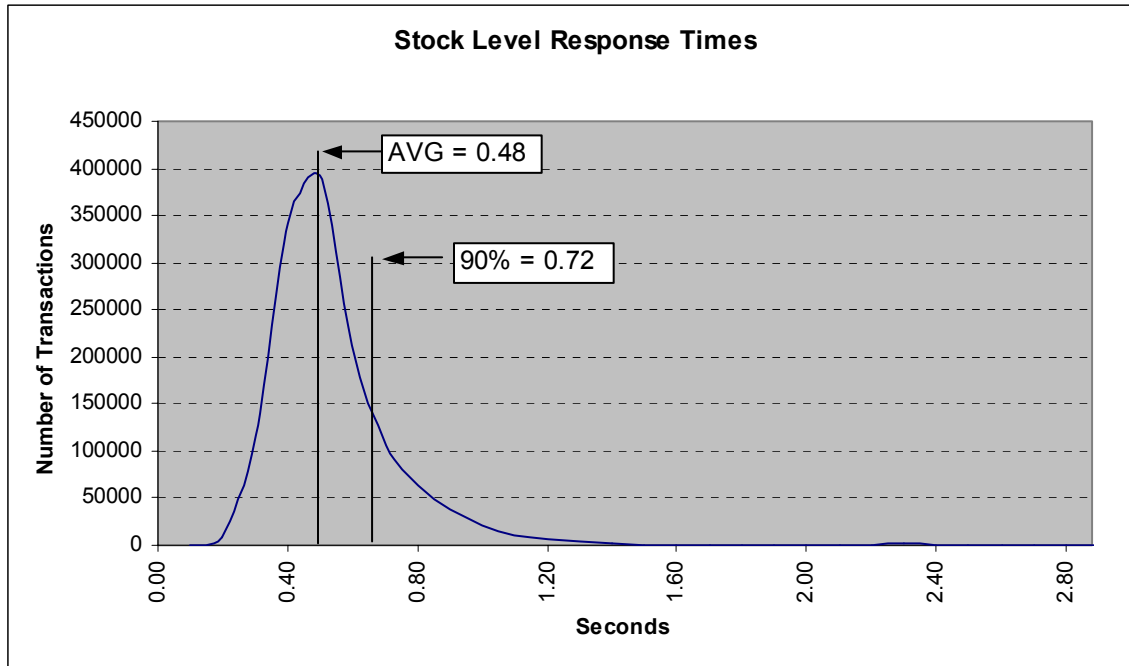


Figure 7. Response Time vs. Throughput

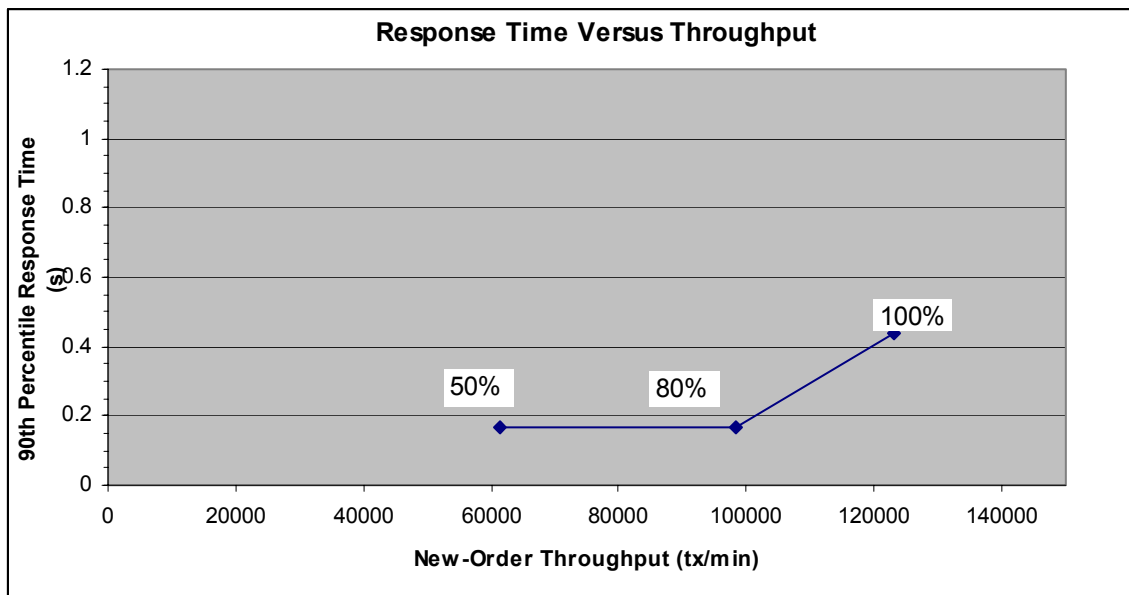


Figure 8. New Order Think Time Distribution

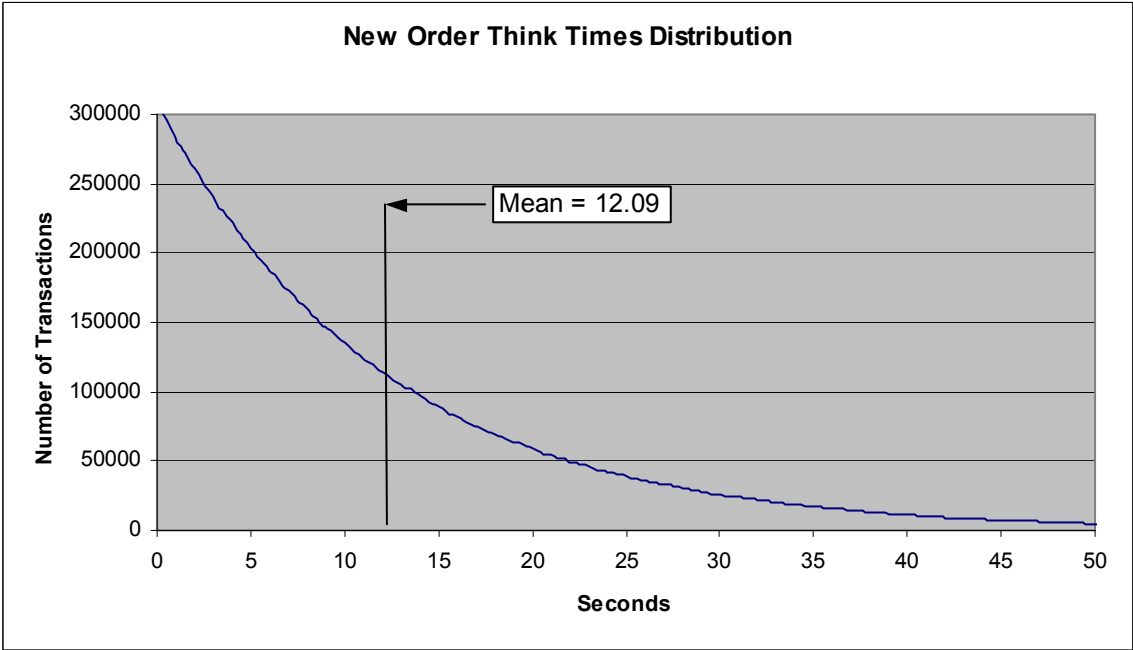
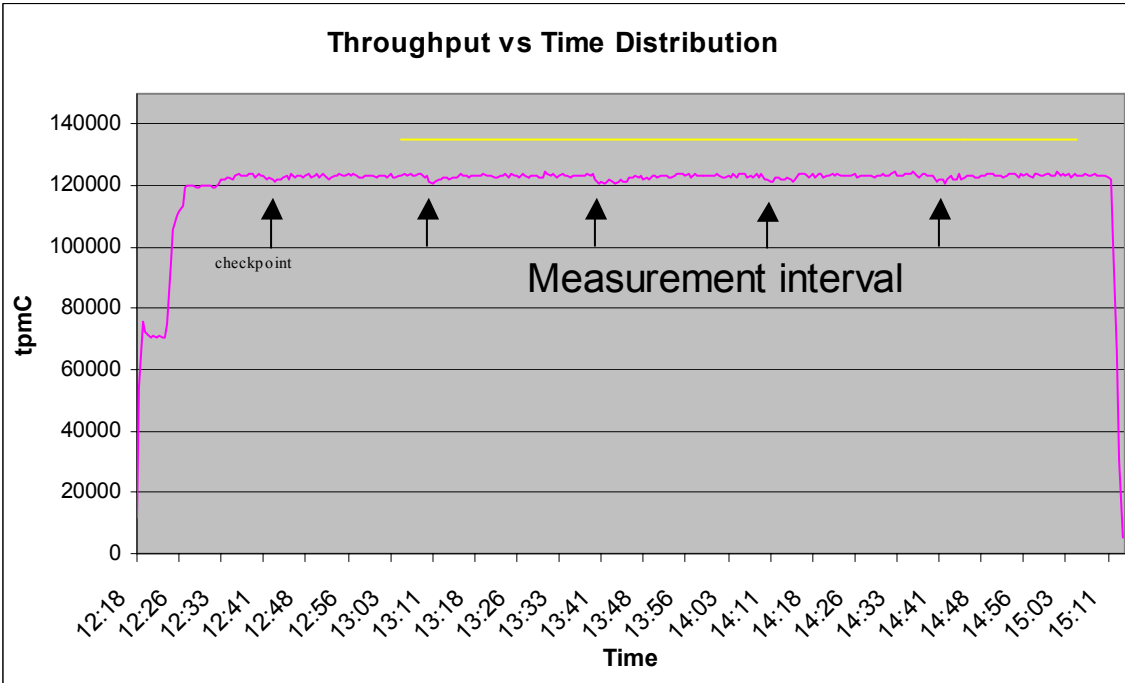


Figure 9. Throughput vs. Time Distribution



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 DBLIB and RPC calls.

To perform checkpoints at specific intervals, the SQL Server *recovery interval* was set to 80 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	60.08%
Transaction Mix	New Order	44.90%
	Payment	43.05%
	Order status	4.00%
	Delivery	4.01%
	Stock level	4.03%

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 21 minutes after the start of the ramp-up. Subsequent checkpoints occurred every 30 minutes. Each checkpoint in the measurement interval lasted approximately 20 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
13:09:48pm.	20 minutes, 0 second
13:39:55pm.	20 minutes, 0 seconds
14:09:52pm.	20 minutes, 0 seconds
14:39:49pm.	20 minutes, 0 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 6 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, 6 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** **123,027 tpmC**
- **Price per tpmC** **\$3.50per tpmC**
- **Availability** **October 31, 2004**

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:

- 6 Microsoft Windows Server 2003, Standard Edition
- 1 Microsoft Windows Server 2003, Enterprise Edition SP1
- 1 Microsoft SQL Server 2000 Enterprise Edition SP3 (per processor)
- 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 Tom Sawyer of Performance Metrics, Inc.

Performance Metrics, Inc.
137 Yankton St., Suite 101
Folsom, CA 95630
(phone) (916) 985-1131
(fax) (916) 985-1185
e-mail: lorna@perfmetrics.com

Availability of the Full Disclosure Report

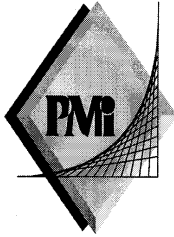
The Full Disclosure Report must be readily available to the public at a reasonable charge, similar to the charges for similar documents by the test sponsor. The report must be made available when results are made public. In order to use the phrase "TPC Benchmark™ C", the Full Disclosure Report must have 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:

TPC
Presidio of San Francisco
Building 572B Ruger St. (surface)
P.O. Box 29920 (mail)
San Francisco, CA 94129-0920

or

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



PERFORMANCE METRICS INC.
TPC Certified Auditors

April 26, 2004

Mr. David Adams
Hewlett-Packard Company
Database Performance Lab
20555 SH 249
Houston, TX 77070

I have verified the TPC Benchmark™ C client/server for the following configuration:

Platform: HP ProLiant DL585 2.4GHz-4P
Database Manager: Microsoft SQL Server 2000 Enterprise Edition
Operating System: Microsoft Windows Server 2003 + SP1, Enterprise Edition
Transaction Manager: Microsoft COM+

Server: HP ProLiant DL585 2.4GHz-4P				
CPUs	Memory	Disks	90% Response	tpmC
4 Opteron @ 2.4 GHz	Main: 64 GB cache: 1MB	393 36GB 10 72GB	0.44	123,027.42

Client: 6 HP ProLiant DL360-G3		
CPUs	Memory	Disks
1 Intel Xeon™ Processor @ 3.06 GHz	Main: 512 MB Cache: 512KB	1 @ 18GB

PERFORMANCE METRICS INC.
TPC Certified Auditors

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 was properly sized and populated.
- The database was properly scaled with 9,792 warehouses all of which were used.
- The ACID properties were met. The loss-of-system and loss-of-memory durability test was performed on the measured system. All other ACID tests were performed on a similarly configured system.
- Input data was generated according to the specified percentages.
- Eight hours of mirrored log space was configured on the measured system.
- Eight hours of dynamic table growth space was configured on the measured system.
- The 60-day space calculation was verified; the measured system had sufficient storage.
- Measurement cycle times included a delay of 0.1 seconds.
- There were 97,920 user contexts present on the system.
- Each group of emulated users started with the same random number seed.
- The NURand constants used for database load and at run time were 123 and 25.
- The steady state portion of the test was 2 hours.
- One checkpoint was taken before the measured interval.
- Four checkpoints were taken during the measured interval.
- The system pricing was checked for major components and maintenance.

Auditor Notes:

None

Sincerely,



Tom Sawyer
Auditor

Appendix A: Source Code

The client source code is listed below.

Methods.h

```
/*      FILE:          METHODS.H
 *
 *      TPC-C Kit Ver. 4.20.000
 *
 *      Microsoft
 *
 *      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;};
        int ErrorNum() {return m_Error;};
        char *ErrorText();
};

static void WriteMessageToEventLog(LPTSTR 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:
    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
        } u;
    };

};

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

    BEGIN_COM_MAP(CTPCC)
        COM_INTERFACE_ENTRY2(IUnknown,
CComObjectRootEx)
        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_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_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_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_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;}
};

```

ReadRegistry.cpp

```

/*      FILE:          READREGISTRY.CPP
*
*      TPC-C Kit Ver. 4.20.000
*
*      Microsoft
*
*      Copyright
*
*      Microsoft, 1999
*
*      All Rights Reserved
*
*
*      not yet
*
*
*      audited
*
*
*      PURPOSE:  Implementation for TPC-C Tuxedo
*
*
*      class.
*
*      Contact:  Charles Levine
*
*      (levine@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
*
*               TRUE  = error reading
registry
*/
BOOL ReadTPCCRegistrySettings( TPCCREGISTRYDATA *pReg
)
{
    HKEY    hKey;
    DWORD  size;
    DWORD  type;
    DWORD  dwTmp;
    char    szTmp[256];

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

    // determine database protocol to use; may
be either ODBC or DBLIB
    pReg->eDB_Protocol = Unspecified;
    size = sizeof(szTmp);

```

```

    if ( RegQueryValueEx(hKey, "DB_Protocol",
0, &type, (BYTE *)&szTmp, &size) == ERROR_SUCCESS )
    {
        if ( !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;

    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];
} TPCCREGISTRYDATA, *PTPCCREGISTRYDATA;

BOOL ReadTPCCRegistrySettings( TPCCREGISTRYDATA *pReg
);

```

WebcInt.dsw

```

Microsoft Developer Studio Workspace File, Format
Version 6.00
# WARNING: DO NOT EDIT OR DELETE THIS WORKSPACE FILE!

#####

Project:
"db_dblib_dll"=.\\db_dblib_dll\\db_dblib_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

#####

Project: "db_odbc_dll"=.\\db_odbc_dll\\db_odbc_dll.dsp
- Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

```

```

}}}
#####
#####
Project: "install"=.\install\install.dsp - Package
Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
  Begin Project Dependency
  Project_Dep_Name isapi_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name tuxapp
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name db_dblib_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name db_odbc_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name tm_com_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name tm_tuxedo_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name tpcc_com_all
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name tpcc_com_ps
  End Project Dependency
}}}

#####
#####
Project: "isapi_dll"=.\isapi_dll\isapi_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
  Begin Project Dependency
  Project_Dep_Name db_dblib_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name db_odbc_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name tm_tuxedo_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name tm_com_dll

```

```

  End Project Dependency
  Project_Dep_Name tm_encina_dll
  End Project Dependency
}}}

#####
#####
Project: "tm_com_dll"=.\tm_com_dll\tm_com_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
  Begin Project Dependency
  Project_Dep_Name tpcc_com_ps
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name tpcc_com_all
  End Project Dependency
}}}

#####
#####
Project:
"tm_encina_dll"=.\tm_encina_dll\tm_encina_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

#####
#####
Project:
"tm_tuxedo_dll"=.\tm_tuxedo_dll\tm_tuxedo_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

#####
#####
Project:
"tpcc_com_all"=.\tpcc_com_all\tpcc_com_all.dsp -
Package Owner=<4>

```

```

Package=<5>
{{{
}}}

Package=<4>
{{{
  Begin Project Dependency
  Project_Dep_Name tpcc_com_ps
  End Project Dependency
}}}

#####
#####
Project: "tpcc_com_ps"=.\tpcc_com_ps\tpcc_com_ps.dsp
- Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

#####
#####
Project: "tuxapp"=.\tuxapp\tuxapp.dsp - Package
Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
  Begin Project Dependency
  Project_Dep_Name db_dblib_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name db_odbc_dll
  End Project Dependency
}}}

#####
#####
Global:

Package=<5>
{{{
}}}

Package=<3>
{{{
}}}

#####
#####

```

WebcInt.dsw

Microsoft Developer Studio Workspace File, Format
Version 6.00
WARNING: DO NOT EDIT OR DELETE THIS WORKSPACE FILE!

#####

Project:
"db_dblib_dll"=.\db_dblib_dll\db_dblib_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

#####

Project: "db_odbc_dll"=.\db_odbc_dll\db_odbc_dll.dsp
- Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

#####

Project: "install"=.\install\install.dsp - Package
Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{

```
Begin Project Dependency
Project_Dep_Name isapi_dll
End Project Dependency
Begin Project Dependency
Project_Dep_Name tuxapp
End Project Dependency
Begin Project Dependency
Project_Dep_Name db_dblib_dll
End Project Dependency
Begin Project Dependency
Project_Dep_Name db_odbc_dll
End Project Dependency
Begin Project Dependency
Project_Dep_Name tm_com_dll
```

```
End Project Dependency
Begin Project Dependency
Project_Dep_Name tm_tuxedo_dll
End Project Dependency
Begin Project Dependency
Project_Dep_Name tpcc_com_all
End Project Dependency
Begin Project Dependency
Project_Dep_Name tpcc_com_ps
End Project Dependency
}}}
```


#####

Project: "isapi_dll"=.\isapi_dll\isapi_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{

```
Begin Project Dependency
Project_Dep_Name db_dblib_dll
End Project Dependency
Begin Project Dependency
Project_Dep_Name db_odbc_dll
End Project Dependency
Begin Project Dependency
Project_Dep_Name tm_tuxedo_dll
End Project Dependency
Begin Project Dependency
Project_Dep_Name tm_com_dll
End Project Dependency
Begin Project Dependency
Project_Dep_Name tm_encina_dll
End Project Dependency
}}}
```


#####

Project: "tm_com_dll"=.\tm_com_dll\tm_com_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{

```
Begin Project Dependency
Project_Dep_Name tpcc_com_ps
End Project Dependency
Begin Project Dependency
Project_Dep_Name tpcc_com_all
End Project Dependency
}}}
```


#####

Project:
"tm_encina_dll"=.\tm_encina_dll\tm_encina_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

#####

Project:
"tm_tuxedo_dll"=.\tm_tuxedo_dll\tm_tuxedo_dll.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

#####

Project:
"tpcc_com_all"=.\tpcc_com_all\tpcc_com_all.dsp -
Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{

```
Begin Project Dependency
Project_Dep_Name tpcc_com_ps
End Project Dependency
}}}
```


#####

Project: "tpcc_com_ps"=.\tpcc_com_ps\tpcc_com_ps.dsp
- Package Owner=<4>

Package=<5>
{{{
}}}

Package=<4>
{{{
}}}

#####

```
Project: "tuxapp"=.\tuxapp\tuxapp.dsp - Package
Owner=<4>
```

```
Package=<5>
{{{
}}}
```

```
Package=<4>
{{{
  Begin Project Dependency
  Project_Dep_Name db_dblib_dll
  End Project Dependency
  Begin Project Dependency
  Project_Dep_Name db_odbc_dll
  End Project Dependency
}}}
```

```
#####
#####
```

```
Global:
```

```
Package=<5>
{{{
}}}
```

```
Package=<3>
{{{
}}}
```

```
#####
#####
```

db_dblib_dll.dsp

```
# Microsoft Developer Studio Project File -
Name="db_dblib_dll" - Package Owner=<4>
# Microsoft Developer Studio Generated Build File,
Format Version 6.00
# ** DO NOT EDIT **
```

```
# TARGETTYPE "Win32 (x86) Dynamic-Link Library" 0x0102
```

```
CFG=db_dblib_dll - Win32 IceCAP
!MESSAGE This is not a valid makefile. To build this
project using NMAKE,
!MESSAGE use the Export Makefile command and run
!MESSAGE
!MESSAGE NMAKE /f "db_dblib_dll.mak".
!MESSAGE
!MESSAGE You can specify a configuration when running
NMAKE
!MESSAGE by defining the macro CFG on the command
line. For example:
!MESSAGE
!MESSAGE NMAKE /f "db_dblib_dll.mak"
CFG="db_dblib_dll - Win32 IceCAP"
!MESSAGE
!MESSAGE Possible choices for configuration are:
```

```
!MESSAGE
!MESSAGE "db_dblib_dll - Win32 Release" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE "db_dblib_dll - Win32 Debug" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE "db_dblib_dll - Win32 IceCAP" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE
```

```
# Begin Project
# PROP AllowPerConfigDependencies 0
# PROP Scc_ProjName ""
# PROP Scc_LocalPath ""
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
```

```
!IF "$(CFG)" == "db_dblib_dll - Win32 Release"
```

```
# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 0
# PROP BASE Output_Dir "Release"
# PROP BASE Intermediate_Dir "Release"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 0
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
```

```
# ADD BASE CPP /nologo /MT /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MD /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "NDEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "NDEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /1 0x409 /d "NDEBUG"
# ADD RSC /1 0x409 /d "NDEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll
/machine:I386
# ADD LINK32 ntdbllib.lib kernel32.lib user32.lib
gdi32.lib winspool.lib comdlg32.lib advapi32.lib
shell32.lib ole32.lib oleaut32.lib uuid.lib /nologo
/subsystem:windows /dll /machine:I386
/out:".bin\tpcc_dblib.dll"
```

```
!ELSEIF "$(CFG)" == "db_dblib_dll - Win32 Debug"
```

```
# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "Debug"
# PROP BASE Intermediate_Dir "Debug"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
```

```
# PROP Use_Debug_Libraries 1
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MTd /W3 /Gm /GX /Zi /Od /D
"WIN32" /D "_DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MDd /W3 /Gm /GX /ZI /Od /D "WIN32"
/D "_DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "_DEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "_DEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /1 0x409 /d "_DEBUG"
# ADD RSC /1 0x409 /d "_DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /pdbtype:sept
# ADD LINK32 ntdbllib.lib kernel32.lib user32.lib
gdi32.lib winspool.lib comdlg32.lib advapi32.lib
shell32.lib ole32.lib oleaut32.lib uuid.lib /nologo
/subsystem:windows /dll /debug /machine:I386
/out:".bin\tpcc_dblib.dll" /pdbtype:sept
```

```
!ELSEIF "$(CFG)" == "db_dblib_dll - Win32 IceCAP"
```

```
# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "db_dblib"
# PROP BASE Intermediate_Dir "db_dblib"
# PROP BASE Ignore_Export_Lib 0
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 1
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MDd /W3 /Gm /GX /Zi /Od /D
"WIN32" /D "_DEBUG" /D "_WINDOWS" /YX /FD /Gh /c
# ADD CPP /nologo /MD /W3 /Gm /GX /Zi /O2 /D "WIN32"
/D "NDEBUG" /D "_WINDOWS" /D "ICECAP" /YX /FD /Gh /c
# ADD BASE MTL /nologo /D "_DEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "_DEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /1 0x409 /d "_DEBUG"
# ADD RSC /1 0x409 /d "_DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 ntdbllib.lib kernel32.lib
user32.lib gdi32.lib winspool.lib comdlg32.lib
advapi32.lib shell32.lib ole32.lib oleaut32.lib
uuid.lib /nologo /subsystem:windows /dll /debug
```



```

/machine:I386 /out:".bin\tpcc_dblib.dll"
/pdbtype:sept
# ADD LINK32 icap.lib ntwdblib.lib kernel32.lib
user32.lib gdi32.lib winspool.lib comdlg32.lib
advapi32.lib shell32.lib ole32.lib oleaut32.lib
uuid.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /out:".bin\tpcc_dblib.dll"
/pdbtype:sept

```

```
!ENDIF
```

```
# Begin Target
```

```

# Name "db_dblib_dll - Win32 Release"
# Name "db_dblib_dll - Win32 Debug"
# Name "db_dblib_dll - Win32 IceCAP"
# Begin Group "Source"

```

```

# PROP Default_Filter "*.cpp"
# Begin Source File

```

```

SOURCE=.\src\tpcc_dblib.cpp
# End Source File
# End Group
# Begin Group "Header"

```

```

# PROP Default_Filter "*.h"
# Begin Source File

```

```

SOURCE=.\common\src\error.h
# End Source File
# Begin Source File

```

```

SOURCE=.\src\tpcc_dblib.h
# End Source File
# Begin Source File

```

```

SOURCE=.\common\src\trans.h
# End Source File
# Begin Source File

```

```

SOURCE=.\common\src\txn_base.h
# End Source File
# End Group
# End Target
# End Project

```

db_odbc_dll.dsp

```

# Microsoft Developer Studio Project File -
Name="db_odbc_dll" - Package Owner=<4>
# Microsoft Developer Studio Generated Build File,
Format Version 6.00
# ** DO NOT EDIT **

```

```
# TARGETTYPE "Win32 (x86) Dynamic-Link Library" 0x0102
```

```

CFG=db_odbc_dll - Win32 IceCAP
!MESSAGE This is not a valid makefile. To build this
project using NMAKE,

```

```

!MESSAGE use the Export Makefile command and run
!MESSAGE
!MESSAGE NMAKE /f "db_odbc_dll.mak".
!MESSAGE
!MESSAGE You can specify a configuration when running
NMAKE
!MESSAGE by defining the macro CFG on the command
line. For example:
!MESSAGE
!MESSAGE NMAKE /f "db_odbc_dll.mak" CFG="db_odbc_dll
- Win32 IceCAP"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "db_odbc_dll - Win32 Release" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE "db_odbc_dll - Win32 Debug" (based on "Win32
(x86) Dynamic-Link Library")
!MESSAGE "db_odbc_dll - Win32 IceCAP" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE

```

```

# Begin Project
# PROP AllowPerConfigDependencies 0
# PROP Scc_ProjName ""
# PROP Scc_LocalPath ""
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe

```

```
!IF "$(CFG)" == "db_odbc_dll - Win32 Release"
```

```

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 0
# PROP BASE Output_Dir "Release"
# PROP BASE Intermediate_Dir "Release"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 0
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MT /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MD /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "NDEBUG" /mktyplib203 /o
/win32 "NUL"
# ADD MTL /nologo /D "NDEBUG" /mktyplib203 /o /win32
"NUL"
# ADD BASE RSC /l 0x409 /d "NDEBUG"
# ADD RSC /l 0x409 /d "NDEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe

```

```

# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll
/machine:I386

```

```

# ADD LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll
/machine:I386 /out:".bin\tpcc_odbc_dll"

```

```
!ELSEIF "$(CFG)" == "db_odbc_dll - Win32 Debug"
```

```

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "Debug"
# PROP BASE Intermediate_Dir "Debug"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 1
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MTd /W3 /Gm /GX /Zi /Od /D
"WIN32" /D "_DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MDd /W3 /GX /Zi /Od /D "WIN32" /D
"_DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "DEBUG" /mktyplib203 /o
/win32 "NUL"
# ADD MTL /nologo /D "DEBUG" /mktyplib203 /o /win32
"NUL"
# ADD BASE RSC /l 0x409 /d "DEBUG"
# ADD RSC /l 0x409 /d "DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /pdbtype:sept
# ADD LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /out:".bin\tpcc_odbc_dll"
/pdbtype:sept

```

```
!ELSEIF "$(CFG)" == "db_odbc_dll - Win32 IceCAP"
```

```

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "db_odbc_"
# PROP BASE Intermediate_Dir "db_odbc_"
# PROP BASE Ignore_Export_Lib 0
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 1
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MD /W3 /Gm /GX /Zi /Od /D
"WIN32" /D "_DEBUG" /D "_WINDOWS" /YX /FD /Gh /c
# ADD CPP /nologo /MD /W3 /Gm /GX /Zi /O2 /D "WIN32"
/D "NDEBUG" /D "_WINDOWS" /D "ICECAP" /YX /FD /Gh /c

```

```
!ELSEIF "$(CFG)" == "db_odbc_dll - Win32 IceCAP"
```

```

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "db_odbc_"
# PROP BASE Intermediate_Dir "db_odbc_"
# PROP BASE Ignore_Export_Lib 0
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 1
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MDd /W3 /Gm /GX /Zi /Od /D
"WIN32" /D "_DEBUG" /D "_WINDOWS" /YX /FD /Gh /c
# ADD CPP /nologo /MD /W3 /Gm /GX /Zi /O2 /D "WIN32"
/D "NDEBUG" /D "_WINDOWS" /D "ICECAP" /YX /FD /Gh /c

```

```

# ADD BASE MTL /nologo /D "_DEBUG" /mktyplib203 /o
/win32 "NUL"
# ADD MTL /nologo /D "_DEBUG" /mktyplib203 /o/win32
"NUL"
# ADD BASE RSC /1 0x409 /d "_DEBUG"
# ADD RSC /1 0x409 /d "_DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib cmdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /out:".bin\tpcc_odbc.dll"
/pdbtype:sept
# ADD LINK32 icap.lib kernel32.lib user32.lib
gdi32.lib winspool.lib cmdlg32.lib advapi32.lib
shell32.lib ole32.lib oleaut32.lib uuid.lib
odbc32.lib odbc32.lib /nologo /subsystem:windows
/dll /debug /machine:I386 /out:".bin\tpcc_odbc.dll"
/pdbtype:sept

!ENDIF

# Begin Target

# Name "db_odbc_dll - Win32 Release"
# Name "db_odbc_dll - Win32 Debug"
# Name "db_odbc_dll - Win32 IceCAP"
# Begin Group "Source"

# PROP Default_Filter "*.cpp"
# Begin Source File

SOURCE=.\src\tpcc_odbc.cpp
# End Source File
# End Group
# Begin Group "Header"

# PROP Default_Filter "*.h"
# Begin Source File

SOURCE=.\common\src\error.h
# End Source File
# Begin Source File

SOURCE=.\src\tpcc_odbc.h
# End Source File
# Begin Source File

SOURCE=.\common\src\trans.h
# End Source File
# Begin Source File

SOURCE=.\common\src\txn_base.h
# End Source File
# End Group
# End Target
# End Project

```

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 */

```

error.h

```

/* FILE: ERROR.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 error exception
classes.
*
* Change history:
* 4.20.000 - updated rev number to
match kit
* 4.21.000 - fixed bug: -CBaseErr
needed to be declared virtual
*/

#pragma once

#ifndef _INC_STRING
#include <string.h>
#endif

const int m_szMsg_size = 512;
const int m_szApp_size = 64;
const int m_szLoc_size = 64;

//error message structure used in ErrorText routines
typedef struct _SERRORMSG
{
    int iError;
    //error id of message
    char szMsg[256];
    //message to sent to browser
} SERRORMSG;

typedef enum _ErrorLevel
{
    ERR_FATAL_LEVEL =
1,
    ERR_WARNING_LEVEL = 2,
    ERR_INFORMATION_LEVEL = 3
} ErrorLevel;

#define ERR_TYPE_LOGIC -1
//logic error in program; internal error
#define ERR_SUCCESS 0
//success (a non-error error)
#define ERR_BAD_ITEM_ID 1
//expected abort record in txnRecord
#define ERR_TYPE_DELIVERY_POST 2
//expected delivery post failed
#define ERR_TYPE_WEBDLL 3
#define ERR_TYPE_SQL 4
//tpcc web generated error
#define ERR_TYPE_DBLIB 5
//sql server generated error
#define ERR_TYPE_ODBC 6
//dblib generated error
//odbc generated error

```

```

#define ERR_TYPE_SOCKET 7
//error on communication socket client rte
only
#define ERR_TYPE_DEADLOCK 8
//dblib and odbc only deadlock condition
#define ERR_TYPE_COM 9
//error from COM call
#define ERR_TYPE_TUXEDO 10
//tuxedo error
#define ERR_TYPE_OS 11
//operating system error
#define ERR_TYPE_MEMORY 12
//memory allocation error
#define ERR_TYPE_TPCC_ODBC 13
//error from tpcc odbc txn module
#define ERR_TYPE_TPCC_DBLIB 14
//error from tpcc dblib txn module
#define ERR_TYPE_DELISRV 15
//delivery server error
#define ERR_TYPE_TXNLOG 16
//txn log error
#define ERR_TYPE_BCCONN 17
//Benchcraft connection class
#define ERR_TYPE_TPCC_CONN 18
//Benchcraft connection class
#define ERR_TYPE_ENCINA 19
//Encina error
#define ERR_TYPE_COMPONENT 20
//error from COM component
#define ERR_TYPE_RTE 21
//Benchcraft rte
#define ERR_TYPE_AUTOMATION 22
//Benchcraft automation errors
#define ERR_TYPE_DRIVER 23
//Driver engine errors
#define ERR_TYPE_RTE_BASE 24
//Framework errors
#define ERR_BUF_OVERFLOW 25
//Buffer overflow during receive
// TPC-W error types
#define ERR_TYPE_TPCW_CONN 50
//Benchcraft connection class

```

```

#define ERR_TYPE_TPCW_HTML 51
//error from TpcwHtml dll
#define ERR_TYPE_TPCW_USER 52
//error from TPC-W user class
#define ERR_TYPE_TPCW_ENG_BASE 53
#define ERR_TYPE_TPCW_ENG_OS 54
#define ERR_TYPE_HTML_RESP 55
#define ERR_TYPE_TPCW_ODBC 56
#define ERR_TYPE_SCHANNEL 57

#define ERR_INS_MEMORY "Insufficient Memory to continue."
#define ERR_UNKNOWN "Unknown error."
#define ERR_MSG_BUF_SIZE 512
#define INV_ERROR_CODE -1
#define ERR_INS_BUF_OVERFLOW "Insufficient Buffer size to recieve HTML pages."

class CBaseErr
{
public:
    CBaseErr(LPCTSTR szLoc = NULL)
    {
        m_idMsg =
INV_ERROR_CODE;
        if (szLoc)
        {
            m_szLoc = new
char[m_szLoc_size];
            strcpy(m_szLoc, szLoc);
        }
        else
            m_szLoc = NULL;
        m_szApp = new
char[m_szApp_size];
        GetModuleFileName(GetModuleHandle(NULL),
m_szApp, m_szApp_size);
    }

    CBaseErr(int idMsg, LPCTSTR szLoc = NULL)
    {
        m_idMsg = idMsg;
        if (szLoc)

```

```

{
    m_szLoc = new
char[m_szLoc_size];
    strcpy(m_szLoc, szLoc);
}
else
    m_szLoc = NULL;
m_szApp = new
char[m_szApp_size];
    GetModuleFileName(GetModuleHandle(NULL),
m_szApp, m_szApp_size);
}

virtual ~CBaseErr(void)
{
    if (m_szApp)
        delete [] m_szApp;
    if (m_szLoc)
        delete [] m_szLoc;
};

virtual void Draw(HWND hwnd, LPCTSTR szStr
= NULL)
{
    int j = 0;
    char szTmp[512];
    if (szStr)
        j = wsprintf(szTmp,
"%s\n",szStr);
    if (ErrorNum() != INV_ERROR_CODE)
        j += wsprintf(szTmp+j,
"Error = %d\n", ErrorNum());
    if (m_szLoc)
        j += wsprintf(szTmp+j,
"Location = %s\n", GetLocation());
    j += wsprintf(szTmp+j, "%s\n",
ErrorText());
    ::MessageBox(hwnd, szTmp,
m_szApp, MB_OK);
}

char *GetApp(void) { return m_szApp; }
char *GetLocation(void) { return m_szLoc; }
virtual int ErrorNum() { return m_idMsg; }

virtual int ErrorType() = 0; // a value
which distinguishes the kind of error that occurred
virtual char *ErrorText() = 0; // a string
(i.e., human readable) representation of the error

protected:
    char *m_szApp;
    char *m_szLoc; // code location where
the error occurred
    int m_idMsg;

```

```

        //short m_errType;
    };

    class CSocketErr : public CBaseErr
    {
    public:
        enum Action
        {
            eNone = 0,
            eSend,
            eSocket,
            eBind,
            eConnect,
            eListen,
            eHost,
            eRecv,
            eGetHostByName,
            eWSACreateEvent,
            eWSASend,
            eWSASendImage,
            eWSAGetOverlappedResult,
            eWSARecv,
            eWSARecvImage,
            eWSAWaitForMultipleEvents,
            eWSAStartup,
            eWSAResetEvent,
            eNonRetryable,
        };

        CSocketErr(Action eAction, LPCTSTR
        szLocation = NULL);

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

        m_szErrorText;
    };

    Action m_eAction;
    char *m_szErrorText;

    int ErrorType() { return ERR_TYPE_SOCKET;};
    char *ErrorText(void);
};

class CSystemErr : public CBaseErr
{
public:
    enum Action
    {
        eNone = 0,
        eTransactNamedPipe,
        eWaitNamedPipe,
        eSetNamedPipeHandleState,
        eCreateFile,
        eCreateProcess,
        eCallNamedPipe,
        eCreateEvent,
        eCreateThread,
        eVirtualAlloc,
    };

```

```

        eReadFile = 10,
        eWriteFile,
        eMapViewOfFile,
        eCreateFileMapping,
        eInitializeSecurityDescriptor,
        eSetSecurityDescriptorDacl,
        eCreateNamedPipe,
        eConnectNamedPipe,
        eWaitForSingleObject,
        eRegOpenKeyEx,
        eRegQueryValueEx = 20,
        ebeginthread,
        eRegEnumValue,
        eRegSetValueEx,
        eRegCreateKeyEx,
        eWaitForMultipleObjects,
        eRegisterClassEx,
        eCreateWindow,
        eCreateSemaphore,
        eFSeek,
        eFRead,
        eFWrite,
        eTmpFile,
        eSetFilePointer,
        eNew,
    };

    CSystemErr(Action
    eAction, LPCTSTR szLocation);
    CSystemErr(int iError,
    Action eAction, LPCTSTR szLocation);
    int ErrorType() { return
    ERR_TYPE_OS;};
    char *ErrorText(void);
    void Draw(HWND hwnd, LPCTSTR szStr =
    NULL);

    Action m_eAction;

private:
    char m_szMsg[ERR_MSG_BUF_SIZE];
};

class CMemoryErr : public CBaseErr
{
public:
    CMemoryErr();

    int ErrorType() {return ERR_TYPE_MEMORY;};
    char *ErrorText() {return ERR_INS_MEMORY;};
};

class CBufferOverflowErr : public CBaseErr
{
public:
    CBufferOverflowErr(int, LPTSTR);

    int ErrorType() {return ERR_BUF_OVERFLOW;};

    char *ErrorText() {return
    ERR_INS_BUF_OVERFLOW;};
};

```

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.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 Developer Studio generated resource
script.
//
#include "resource.h"

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

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

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

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

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

IDD_DIALOG1 DIALOGEX 0, 0, 219, 351
STYLE DS_MODALFRAME | DS_CENTER | WS_MINIMIZEBOX |
WS_POPUP | WS_CAPTION |
WS_SYSMENU
CAPTION "TPC-C Web Client Installation Utility"
FONT 8, "MS Sans Serif"
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
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_SETFOREGROUND | DS_3DLOOK | DS_CENTER |
WS_POPUP | WS_BORDER
EXSTYLE WS_EX_STATICEDGE
FONT 12, "MS Sans Serif", 0, 0, 0x1
BEGIN
DEFPUSHBUTTON "OK", IDOK, 33, 45, 50, 9
CTEXT      "HTML TPC-C Installation
Successfull", IDC_RESULTS, 7, 22,
102, 18, 0, WS_EX_CLIENTEDGE
ICON
IDI_ICON2, IDC_STATIC, 50, 7, 18, 20, SS_REALSIZEIMAGE,
WS_EX_TRANSPARENT
END

IDD_DIALOG3 DIALOG DISCARDABLE 0, 0, 91, 40
STYLE DS_SYSMODAL | 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 DISCARDABLE 0, 0, 291, 202
STYLE 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 DISCARDABLE
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 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

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

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

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

```

```

        VALUE "OriginalFilename", "install.exe\0"
        VALUE "ProductName", "Microsoft
install\0"
        VALUE "ProductVersion", "0, 4, 20, 0\0"
    END
    END
    BLOCK "VarFileInfo"
    BEGIN
        VALUE "Translation", 0x409, 1200
    END
END

#endif // !_MAC

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

IDR_LICENSE1          LICENSE DISCARDABLE
"license.txt"

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

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

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

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

```

install_com.cpp

```

/* FILE:          INSTALL_COM.CPP
 *               Microsoft
TPC-C Kit Ver. 4.20.000
 *               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 +
// DLL
"tpcc_com_all.dll";
        bstrTemp3 = bstrDllPath +
// type library (TLB)
"tpcc_com_all.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";
            bstrTemp2 = "dummy string (do not
remove)";
            vTmp = bstrTemp2;
            hr = pCatalogObjectCo-
>put_Value(bstrTemp, vTmp);
            if (!SUCCEEDED(hr)) goto Error;

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

            bstrTemp = "MaxPoolSize";

```



```

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

                        pCatalogObjectMethod->Release();
                        pCatalogObjectMethod = NULL;

                        lCountMethod-
-;
                }

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

                pCatalogObjectItf-
>Release();
                pCatalogObjectItf =
NULL;

                lCountItf--;
        }

        pCatalogObjectCo->Release();
        pCatalogObjectCo = NULL;

        lCountCo--;
}

```

```

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

        pCatalogCollectionApp->Release();
        pCatalogCollectionApp = NULL;

        pCatalogCollectionCo->Release();
        pCatalogCollectionCo = NULL;

        pCatalogCollectionItf->Release();
        pCatalogCollectionItf = NULL;

        pCatalogCollectionMethod->Release();
        pCatalogCollectionMethod = NULL;

Error:
        CoUninitialize();

        if (!SUCCEEDED(hr))
        {
                LPTSTR lpBuf;
                DWORD dwRes =
FormatMessage(FORMAT_MESSAGE_ALLOCATE_BUFFER |
FORMAT_MESSAGE_FROM_SYSTEM,
                NULL,
                hr,
                MAKELANGID(LANG_NEUTRAL,
                SUBLANG_DEFAULT),
                (LPTSTR)
&lpBuf,
                0,
                NULL);
        //
        // tprintf(_T("Error adding
components. HRESULT: 0x%x\n%s"), hr, lpBuf);
        return TRUE;
        }
        else
        return FALSE;
}

```

isapi_dll.dsp

```

# Microsoft Developer Studio Project File -
Name="isapi_dll" - Package Owner=<4>
# Microsoft Developer Studio Generated Build File,
Format Version 6.00
# ** DO NOT EDIT **

# TARGETTYPE "Win32 (x86) Dynamic-Link Library" 0x0102
CFG=isapi_dll - Win32 IceCAP

```

```

!MESSAGE This is not a valid makefile. To build this
project using NMAKE,
!MESSAGE use the Export Makefile command and run
!MESSAGE
!MESSAGE NMAKE /f "isapi_dll.mak".
!MESSAGE
!MESSAGE You can specify a configuration when running
NMAKE
!MESSAGE by defining the macro CFG on the command
line. For example:
!MESSAGE
!MESSAGE NMAKE /f "isapi_dll.mak" CFG="isapi_dll -
Win32 IceCAP"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "isapi_dll - Win32 Release" (based on "Win32
(x86) Dynamic-Link Library")
!MESSAGE "isapi_dll - Win32 Debug" (based on "Win32
(x86) Dynamic-Link Library")
!MESSAGE "isapi_dll - Win32 IceCAP" (based on "Win32
(x86) Dynamic-Link Library")
!MESSAGE

# Begin Project
# PROP AllowPerConfigDependencies 0
# PROP Scc_ProjName ""
# PROP Scc_LocalPath ""
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe

!IF "$(CFG)" == "isapi_dll - Win32 Release"

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 0
# PROP BASE Output_Dir "Release"
# PROP BASE Intermediate_Dir "Release"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 0
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MT /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MD /W3 /GX /O2 /D "NDEBUG" /D
"WIN32" /D "_WINDOWS" /FR /YX /FD /c
# ADD BASE MTL /nologo /D "NDEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "NDEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /1 0x409 /d "NDEBUG"
# ADD RSC /1 0x409 /d "NDEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
kernel32.lib user32.lib gdi32.lib winspool.lib
comdlg32.lib advapi32.lib shell32.lib ole32.lib
oleaut32.lib uuid.lib odbc32.lib
/subsystem:windows /dll /debug /machine:I386
/out:".bin\tpcc.dll" /pdbtype:sept
# SUBTRACT LINK32 /profile /pdb:none /defaultlib

!ELSEIF "$(CFG)" == "isapi_dll - Win32 Debug"

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "Debug"
# PROP BASE Intermediate_Dir "Debug"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 1
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MTd /W3 /Gm /GX /Zi /Od /D
"WIN32" /D "_DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MDd /W3 /GX /ZI /Od /D "DEBUG" /D
"WIN32" /D "_WINDOWS" /FR /YX /FD /c
# ADD BASE MTL /nologo /D "DEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "DEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /1 0x409 /d "DEBUG"
# ADD RSC /1 0x409 /d "DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /out:".bin\tpcc.dll" /pdbtype:sept
# SUBTRACT BASE LINK32 /profile /pdb:none
# ADD LINK32 icap.lib
..\common\txnlog\lib\release\rtetime.lib
..\common\txnlog\lib\release\spinlock.lib
..\common\txnlog\lib\release\error.lib
..\common\txnlog\lib\release\txnolog.lib wsoc32.lib
kernel32.lib user32.lib gdi32.lib winspool.lib
comdlg32.lib advapi32.lib shell32.lib ole32.lib
oleaut32.lib uuid.lib odbc32.lib odbccp32.lib /nologo
/subsystem:windows /dll /debug /machine:I386
/out:".bin\tpcc.dll" /pdbtype:sept
# SUBTRACT LINK32 /profile /pdb:none /map

!ENDIF

# Begin Target

# Name "isapi_dll - Win32 Release"
# Name "isapi_dll - Win32 Debug"
# Name "isapi_dll - Win32 IceCAP"
# Begin Group "Source"

# PROP Default_Filter "*.cpp, *.def, *.rc"
# Begin Source File

SOURCE=.\src\tpcc.cpp
# End Source File
# Begin Source File

SOURCE=.\src\tpcc.def
# End Source File
# Begin Source File

SOURCE=.\src\tpcc.rc
# End Source File
# End Group

```

```

odbccp32.lib /nologo /subsystem:windows /dll
/machine:I386
# ADD LINK32 ..\common\txnlog\lib\release\rtetime.lib
..\common\txnlog\lib\release\spinlock.lib
..\common\txnlog\lib\release\error.lib
..\common\txnlog\lib\release\txnolog.lib wsoc32.lib
kernel32.lib user32.lib gdi32.lib winspool.lib
comdlg32.lib advapi32.lib shell32.lib ole32.lib
oleaut32.lib uuid.lib odbc32.lib odbccp32.lib /nologo
/subsystem:windows /dll /machine:I386
/nodfaultlib:"LIBCMT" /out:".bin\tpcc.dll"
# SUBTRACT LINK32 /nodfaultlib

!ELSEIF "$(CFG)" == "isapi_dll - Win32 Debug"

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "Debug"
# PROP BASE Intermediate_Dir "Debug"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 1
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MTd /W3 /Gm /GX /Zi /Od /D
"WIN32" /D "_DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MDd /W3 /GX /ZI /Od /D "DEBUG" /D
"WIN32" /D "_WINDOWS" /FR /YX /FD /c
# ADD BASE MTL /nologo /D "DEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "DEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /1 0x409 /d "DEBUG"
# ADD RSC /1 0x409 /d "DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /pdbtype:sept
# ADD LINK32 ..\common\txnlog\lib\debug\rtetime.lib
..\common\txnlog\lib\debug\spinlock.lib
..\common\txnlog\lib\debug\error.lib
..\common\txnlog\lib\debug\txnolog.lib wsoc32.lib
kernel32.lib user32.lib gdi32.lib winspool.lib
comdlg32.lib advapi32.lib shell32.lib ole32.lib
oleaut32.lib uuid.lib odbc32.lib odbccp32.lib /nologo
/subsystem:windows /dll /debug /machine:I386
/nodfaultlib:"LIBCMT" /out:".bin\tpcc.dll"
/pdbtype:sept
# SUBTRACT LINK32 /profile /pdb:none /defaultlib

!ELSEIF "$(CFG)" == "isapi_dll - Win32 IceCAP"

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "isapi_dl"
# PROP BASE Intermediate_Dir "isapi_dl"

```

```

# PROP BASE Ignore_Export_Lib 0
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 1
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MDd /W3 /GX /Zi /Od /D
"_DEBUG" /D "WIN32" /D "_WINDOWS" /FR /YX /FD /Gh /c
# ADD CPP /nologo /MD /W3 /GX /Zi /O2 /D "NDEBUG" /D
"ICECAP" /D "WIN32" /D "_WINDOWS" /FR /YX /FD /Gh /c
# ADD BASE MTL /nologo /D "_DEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "_DEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /1 0x409 /d "DEBUG"
# ADD RSC /1 0x409 /d "DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /out:".bin\tpcc.dll" /pdbtype:sept
# SUBTRACT BASE LINK32 /profile /pdb:none
# ADD LINK32 icap.lib
..\common\txnlog\lib\release\rtetime.lib
..\common\txnlog\lib\release\spinlock.lib
..\common\txnlog\lib\release\error.lib
..\common\txnlog\lib\release\txnolog.lib wsoc32.lib
kernel32.lib user32.lib gdi32.lib winspool.lib
comdlg32.lib advapi32.lib shell32.lib ole32.lib
oleaut32.lib uuid.lib odbc32.lib odbccp32.lib /nologo
/subsystem:windows /dll /debug /machine:I386
/out:".bin\tpcc.dll" /pdbtype:sept
# SUBTRACT LINK32 /profile /pdb:none /map

!ENDIF

# Begin Target

# Name "isapi_dll - Win32 Release"
# Name "isapi_dll - Win32 Debug"
# Name "isapi_dll - Win32 IceCAP"
# Begin Group "Source"

# PROP Default_Filter "*.cpp, *.def, *.rc"
# Begin Source File

SOURCE=.\src\tpcc.cpp
# End Source File
# Begin Source File

SOURCE=.\src\tpcc.def
# End Source File
# Begin Source File

SOURCE=.\src\tpcc.rc
# End Source File
# End Group

```

```

# Begin Group "Header Files"

# PROP Default_Filter "*.h, *.hpp"
# Begin Source File

SOURCE=..\common\src\error.h
# End Source File
# Begin Source File

SOURCE=..\common\src\ReadRegistry.h
# End Source File
# Begin Source File

SOURCE=..\src\tpcc.h
# End Source File
# Begin Source File

SOURCE=..\db_dblib_dll\src\tpcc_dblib.h
# End Source File
# Begin Source File

SOURCE=..\db_odbc_dll\src\tpcc_odbc.h
# End Source File
# Begin Source File

SOURCE=..\tm_tuxedo_dll\src\tpcc_tux.h
# End Source File
# Begin Source File

SOURCE=..\common\src\trans.h
# End Source File
# Begin Source File

SOURCE=..\common\src\txn_base.h
# End Source File
# End Group
# End Target
# End Project

```

rtetime.h

```

/* FILE: rtetime.h : header file
 * Copyright 1997 Microsoft Corp., All rights
reserved.
 *
 * Source code licensed to Tandem Computers for
Internal
 * use only. Redistribution of source or object
files or
 * any derivative works is prohibited. By agreement,
this
 * notice may not be removed.
 *
 * Authors: Charles Levine, Philip Durr
 * Microsoft Corp.
 */
//FILE: RTETIME.H

```

```

#define MAX_JULIAN_TIME
0x7FFFFFFFFFFFFFFF
#define JULIAN_TIME __int64
#define TC_TIME DWORD
extern "C"
{
    BOOL InitJulianTime(LPSYSTEMTIME
lpInitTime);
    JULIAN_TIME GetJulianTime(void);
    DWORD MyTickCount(void);
    void GetJulianAndTC(JULIAN_TIME
*pJulian, DWORD *pTC);
    JULIAN_TIME ConvertTo64BitTime(int iYear, int
iMonth, int iDay, int iHour, int iMinute, int
iSecond);
    JULIAN_TIME Get64BitTime(LPSYSTEMTIME
lpInitTime);
    int JulianDay( int yr, int
mm, int dd );
    void JulianToTime(JULIAN_TIME
julianTS, int* yr, int* mm, int* dd, int *hh, int
*mi, int *ss );
    void JulianToCalendar( int day, int*
yr, int* mm, int* dd );
}

```

spinlock.h

```

/* FILE: SPINLOCK.H
 *
 * Copyright 1997 Microsoft Corp., All rights
reserved.
 *
 * Source code licensed to Tandem Computers for
Internal
 * use only. Redistribution of source or object
files or
 * any derivative works is prohibited. By agreement,
this
 * notice may not be removed.
 *
 * Authors: Mike Parkes, Charles Levine, Philip Durr
 * Microsoft Corp.
 */
#ifdef _INC_Spinlock
    const LONG LockClosed = 1;
    const LONG LockOpen = 0;

    /*****
    *
    * Spinlock and Semaphore locking.
    *
    * This class provides a very
conservative locking scheme.
    * The assumption behind the code is that
locks will be

```

```

 * held for a very short time. When a
lock is taken a memory
 * location is exchanged. All other
threads that want this
 * lock wait by spinning and sometimes
sleeping on a semaphore
 * until it becomes free again. The only
other choice is not
 * to wait at all and move on to do
something else. This
 * module should normally be used in
conjunction with cache
 * aligned memory in minimize cache line
misses.
 *
 *****/
class Spinlock
{
    // Private data.
HANDLE
Semaphore;
volatile LONG
m_Spinlock;
volatile LONG
Waiting;

#ifdef _DEBUG
    // Counters for
debugging builds.
volatile LONG
TotalLocks;
volatile LONG
TotalSleeps;
volatile LONG
TotalSpins;
volatile LONG
TotalWaits;
#endif
public:
    // Public functions.
Spinlock( void );
inline BOOL ClaimLock(
inline void
ReleaseLock( void );
~Spinlock( void );
// Disabled operations.
Spinlock( const
Spinlock & Copy );
void operator=( const
Spinlock & Copy );
private:
    // Private functions.
inline BOOL
ClaimSpinlock( volatile LONG *sl );

```

```

        void WaitForLock( void
);
        void WakeAllSleepers(
void );
    };
/*****
*
* A guaranteed atomic exchange.
*
* An attempt is made to claim the
Spinlock. This action is
* guaranteed to be atomic.
*
*****/

    inline BOOL Spinlock::ClaimSpinlock(
volatile LONG *Spinlock )
    {
        #ifdef _DEBUG
            InterlockedIncrement(
(LPLONG) & TotalLocks );
        #endif
        return ( (*Spinlock) ==
LockOpen) && (InterlockedExchange( (LPLONG)Spinlock,
LockClosed ) == LockOpen) );
    }
/*****
*
* Claim the Spinlock.
*
* Claim the lock if available else wait
or exit.
*
*****/

    inline BOOL Spinlock::ClaimLock( BOOL Wait
)
    {
        if ( ! ClaimSpinlock( (volatile
LONG*) & m_Spinlock ) )
        {
            if ( Wait )

                WaitForLock();

            return Wait;
        }
        return TRUE;
    }
/*****
*
* Release the Spinlock.
*
* Release the lock and if needed wakeup
any sleepers.
*****/

```

```

*
*****/
***/

    inline void Spinlock::ReleaseLock( void )
    {
        m_Spinlock = LockOpen;
        if ( Waiting > 0 )
            WakeAllSleepers();
    }

    #define _INC_Spinlock

#endif

tm_com_dll.dsp

# Microsoft Developer Studio Project File -
Name="tm_com_dll" - Package Owner=<4>
# Microsoft Developer Studio Generated Build File,
Format Version 6.00
# ** DO NOT EDIT **

# TARGETTYPE "Win32 (x86) Dynamic-Link Library" 0x0102

CFG=tm_com_dll - Win32 Debug
!MESSAGE This is not a valid makefile. To build this
project using NMAKE,
!MESSAGE use the Export Makefile command and run
!MESSAGE
!MESSAGE NMAKE /f "tm_com_dll.mak".
!MESSAGE
!MESSAGE You can specify a configuration when running
NMAKE
!MESSAGE by defining the macro CFG on the command
line. For example:
!MESSAGE
!MESSAGE NMAKE /f "tm_com_dll.mak" CFG="tm_com_dll -
Win32 Debug"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "tm_com_dll - Win32 Release" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE "tm_com_dll - Win32 Debug" (based on "Win32
(x86) Dynamic-Link Library")
!MESSAGE

# Begin Project
# PROP AllowPerConfigDependencies 0
# PROP Scc_ProjName ""
# PROP Scc_LocalPath ""
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe

!IF "$(CFG)" == "tm_com_dll - Win32 Release"

# PROP BASE Use_MFC 0

```

```

# PROP BASE Use_Debug_Libraries 0
# PROP BASE Output_Dir "Release"
# PROP BASE Intermediate_Dir "Release"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 0
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MT /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MD /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "NDEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "NDEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /l 0x409 /d "NDEBUG"
# ADD RSC /l 0x409 /d "NDEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll
/machine:I386
# ADD LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll
/machine:I386 /out:".bin\tpcc_com.dll"

!ELSEIF "$(CFG)" == "tm_com_dll - Win32 Debug"

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "Debug"
# PROP BASE Intermediate_Dir "Debug"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 1
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MTd /W3 /Gm /GX /ZI /Od /D
"WIN32" /D "_DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MDd /W3 /Gm /GX /ZI /Od /D "WIN32"
/D "_DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "_DEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "_DEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /l 0x409 /d "_DEBUG"
# ADD RSC /l 0x409 /d "_DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe

```

```
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /pdbtype:sept
# ADD LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /out:".bin\tpcc_com.dll" /pdbtype:sept

!ENDIF

# Begin Target

# Name "tm_com_dll - Win32 Release"
# Name "tm_com_dll - Win32 Debug"
# Begin Source File

SOURCE=.\src\tpcc_com.cpp
# End Source File
# Begin Source File

SOURCE=.\src\tpcc_com.h
# End Source File
# End Target
# End Project
```

tpcc.def

```
LIBRARY TPCC.DLL

EXPORTS

    GetExtensionVersion @1
    HttpExtensionProc @2
    TerminateExtension @3
```

tpcc.def

```
LIBRARY TPCC.DLL

EXPORTS

    GetExtensionVersion @1
    HttpExtensionProc @2
    TerminateExtension @3
```

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;
    int //synchronization id
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 );
    dwSystemErr;
    m_SystemErr =
    m_szErrorText = NULL;
};

-CWEBCLNT_ERR()
{
    if (m_szTextDetail !=
NULL)
        delete []
m_szTextDetail;
    if (m_szErrorText !=
NULL)
        delete []
m_szErrorText;
};

WEBERROR m_Error;
char
char
*m_szTextDetail; //
*m_szErrorText;
char
DWORD m_SystemErr;

int ErrorType() {return
ERR_TYPE_WEBDLL;};

int ErrorNum() {return m_Error;};
char *ErrorText();
};

//These constants have already been defined in
engstut.h, but since we do
//not want to include it in the delisrv executable
#define TXN_EVENT_START 2
#define TXN_EVENT_STOP 4
#define TXN_EVENT_WARNING 6
//used to record a warning into the log

//function prototypes

BOOL APIENTRY DllMain(HANDLE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved);
void WriteMessageToEventLog(LPTSTR lpszMsg);
void ProcessQueryString(EXTENSION_CONTROL_BLOCK
*pECB, int *pCmd, int *pFormId, int *pTermId, int
*pSyncId);
void WelcomeForm(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer);
void SubmitCmd(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer);
void BeginCmd(EXTENSION_CONTROL_BLOCK *pECB, int
iFormId, int iTermId);
void ProcessCmd(EXTENSION_CONTROL_BLOCK *pECB, int
iFormId, int iTermId);
void StatsCmd(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer);

```

```

void ErrorMessage(EXTENSION_CONTROL_BLOCK *pECB, int
iError, int iErrorType, char *szMsg, int iTermId);
void GetKeyValue(char **pQueryString, char *pKey,
char *pValue, int iMax, WEBERROR err);
int GetIntKeyValue(char **pQueryString, char *pKey,
WEBERROR NoKeyErr, WEBERROR NotIntErr);
void TermInit(void);
void TermDeleteAll(void);
int TermAdd(void);
void TermDelete(int id);
void ErrorForm(EXTENSION_CONTROL_BLOCK *pECB, int
iType, int iErrorNum, int iTermId, int iSyncId, char
*szErrorText, char *szBuffer );
void MakeMainMenuForm(int iTermId, int iSyncId, char
*szForm);
void MakeStockLevelForm(int iTermId, STOCK_LEVEL_DATA
*pStockLevelData, BOOL bInput, char *szForm);
void MakeNewOrderForm(int iTermId, NEW_ORDER_DATA
*pNewOrderData, BOOL bInput, char *szForm);
void MakePaymentForm(int iTermId, PAYMENT_DATA
*pPaymentData, BOOL bInput, char *szForm);
void MakeOrderStatusForm(int iTermId,
ORDER_STATUS_DATA *pOrderStatusData, BOOL bInput,
char *szForm);
void MakeDeliveryForm(int iTermId, DELIVERY_DATA
*pDeliveryData, BOOL bInput, char *szForm);
void ProcessNewOrderForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void ProcessPaymentForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void ProcessOrderStatusForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
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(short w_id, short
o_carrier_id);
BOOL IsNumeric(char *ptr);
BOOL IsDecimal(char *ptr);
void DeliveryWorkerThread(void *ptr);

```

tpcc.rc

```

//Microsoft Developer Studio generated resource
script.
//
#include "resource.h"

#define APSTUDIO_READONLY_SYMBOLS
////////////////////////////////////
////////////////////////////////////
//
// Generated from the TEXTINCLUDE 2 resource.

```

```

//
#include "afxres.h"

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

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

#if !defined(APX_RESOURCE_DLL) ||
defined(APX_TARG_ENU)
#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
END

```

```

#endif // APSTUDIO_INVOKED

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

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

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



---


tpcc_com.cpp

/* FILE: TPC_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
        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 )
#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;
    }

    int ErrorNum() {return m_hr;}

    char *ErrorText()
    {
        if ( m_hr == S_OK )
            sprintf(
m_szErrorText, "Error: Class %d, error # %d",
m_iErrorType, m_iError );
        else
            sprintf(
m_szErrorText, "Error: COM HRESULT %x", m_hr );
        return m_szErrorText;
    }
};

class DllDecl CTPCC_COM : public CTPCC_BASE
{
private:
    BOOL m_bSinglePool;

    // COM Interface pointers
ITPCC*
m_pNewOrder;
ITPCC*
m_pPayment;
ITPCC*
m_pStockLevel;
ITPCC*
m_pOrderStatus;

    struct COM_DATA
    {
        int ErrorType;
        int error;
        union
        {
            NEW_ORDER_DATA NewOrder;
            PAYMENT_DATA Payment;

```

```

            DELIVERY_DATA Delivery;
            STOCK_LEVEL_DATA StockLevel;
            ORDER_STATUS_DATA OrderStatus;
        } u;
    } *m_pTxn;

    VARIANT m_vTxn;

public:
    CTPCC_COM(BOOL bSinglePool);
    ~CTPCC_COM(void);

    inline PNEW_ORDER_DATA
    BuffAddr_NewOrder() { return
&m_pTxn->u.NewOrder; }
    inline PPAYMENT_DATA
    BuffAddr_Payment() { return
&m_pTxn->u.Payment; }
    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_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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), W1, Zp8, env=Win32 (32b run),
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_AXP64)

#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,
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
,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_AXP64) */

#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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), W1, Zp8, env=Win64 (32b
run,appending), 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_AXP64)

#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,
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_AXP64) */

```

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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run),
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_AXP64)

#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__

#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

#endif /* !defined(_M_IA64) && !defined(_M_AXP64) */

#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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/

```

```

/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), W1, Zp8, env=Win64 (32b
run,appending), 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_AXP64)

#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,
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_AXP64) */

```

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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/

```

```

/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), W1, Zp8, env=Win32 (32b run),
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_AXP64)

#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,
LIBID_TPCCLib, 0x122A3117, 0x2520, 0x11D3, 0xBA, 0x71, 0x00, 0x
, 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_AXP64) */

#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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run, appending), 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_HEADER( )

#ifdef _M_IA64 || defined(_M_AXP64)

#ifdef __cplusplus
extern "C"{
#endif

#include <rpc.h>
#include <rpcndr.h>

#ifdef _MIDL_USE_GUIDDEF_

#ifndef INITGUID
#define INITGUID
#include <guiddef.h>
#undef INITGUID
#else
#include <guiddef.h>
#endif

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

DEFINE_GUID(name,l,w1,w2,b1,b2,b3,b4,b5,b6,b7,b8)

#else /* !_MIDL_USE_GUIDDEF_

#ifndef __IID_DEFINED__
#define __IID_DEFINED__

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

#endif /* __IID_DEFINED__

#ifndef CLSID_DEFINED
#define CLSID_DEFINED
typedef IID CLSID;
#endif /* CLSID_DEFINED

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \
    const type name =
{ l,w1,w2,{ b1,b2,b3,b4,b5,b6,b7,b8 } }

#endif ! _MIDL_USE_GUIDDEF_

MIDL_DEFINE_GUID(IID,
LIBID_TPCCLib, 0x122A3117, 0x2520, 0x11D3, 0xBA, 0x71, 0x00
, 0xC0, 0x4F, 0xBF, 0xE0, 0x8B);

```

```

MIDL_DEFINE_GUID(CLSID,
CLSID_TPCC, 0x122A3128, 0x2520, 0x11D3, 0xBA, 0x71, 0x00, 0x
C0, 0x4F, 0xBF, 0xE0, 0x8B);

MIDL_DEFINE_GUID(CLSID,
CLSID_NewOrder, 0x975BAABF, 0x84A7, 0x11D2, 0xBA, 0x47, 0x0
0, 0xC0, 0x4F, 0xBF, 0xE0, 0x8B);

MIDL_DEFINE_GUID(CLSID,
CLSID_OrderStatus, 0x266836AD, 0xA50D, 0x11D2, 0xBA, 0x4E,
0x00, 0xC0, 0x4F, 0xBF, 0xE0, 0x8B);

MIDL_DEFINE_GUID(CLSID,
CLSID_Payment, 0xCD02F7EF, 0xA4FA, 0x11D2, 0xBA, 0x4E, 0x00
, 0xC0, 0x4F, 0xBF, 0xE0, 0x8B);

MIDL_DEFINE_GUID(CLSID,
CLSID_StockLevel, 0x2668369E, 0xA50D, 0x11D2, 0xBA, 0x4E, 0
x00, 0xC0, 0x4F, 0xBF, 0xE0, 0x8B);

#undef MIDL_DEFINE_GUID

#ifdef __cplusplus
}
#endif

#endif /* defined(_M_IA64) || defined(_M_AXP64) */

```

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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run),
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*/
#ifdef __REQUIRED_RPCNDR_H_VERSION__
#define __REQUIRED_RPCNDR_H_VERSION__ 440
#endif

#include "rpc.h"
#include "rpcndr.h"

#ifdef __tpcc_com_all_h__
#define __tpcc_com_all_h__

/* Forward Declarations */

#ifdef __TPCC_FWD_DEFINED__
#define __TPCC_FWD_DEFINED__

#ifdef __cplusplus
typedef class TPCC TPCC;
#else
typedef struct TPCC TPCC;
#endif /* __cplusplus */
#endif /* __TPCC_FWD_DEFINED__ */

#ifdef __NewOrder_FWD_DEFINED__
#define __NewOrder_FWD_DEFINED__

#ifdef __cplusplus
typedef class NewOrder NewOrder;
#else
typedef struct NewOrder NewOrder;
#endif /* __cplusplus */
#endif /* __NewOrder_FWD_DEFINED__ */

#ifdef __OrderStatus_FWD_DEFINED__
#define __OrderStatus_FWD_DEFINED__

#ifdef __cplusplus
typedef class OrderStatus OrderStatus;
#else
typedef struct OrderStatus OrderStatus;
#endif /* __cplusplus */
#endif /* __OrderStatus_FWD_DEFINED__ */

#ifdef __Payment_FWD_DEFINED__
#define __Payment_FWD_DEFINED__

#ifdef __cplusplus
typedef class Payment Payment;
#else
typedef struct Payment Payment;
#endif /* __cplusplus */

```

```

#endif /* __Payment_FWD_DEFINED__ */

#ifdef __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_FAR * __RPC_USER
MIDL_user_allocate(size_t);
void __RPC_USER MIDL_user_free( void __RPC_FAR * );

/* interface __MIDL_itf_tpcc_com_all_0000 */
/* [local] */

extern RPC_IF_HANDLE
__MIDL_itf_tpcc_com_all_0000_v0_0_c_ifspec;
extern RPC_IF_HANDLE
__MIDL_itf_tpcc_com_all_0000_v0_0_s_ifspec;

#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

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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), W1, Zp8, env=Win32 (32b run),
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_AXP64)

#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 __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,
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_AXP64) */

#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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:

```

```

Oicf (OptLev=i2), W1, Zp8, env=Win64 (32b
run,appending), 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_AXP64)

#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 __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,
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_AXP64) */
```

tpcc_com_all.rc

```
//Microsoft Developer Studio generated resource
script.
//
#include "resource.h"

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

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

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

#ifdef APSTUDIO_INVOKED
////////////////////////////////////
////////////////////////////////////
//
// TEXTINCLUDE
//
1 TEXTINCLUDE DISCARDABLE
BEGIN
    "resource.h\0"
END

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

3 TEXTINCLUDE DISCARDABLE
BEGIN
    "1 TYPELIB \"tpcc_com_all.tlb\"\r\n"
    "\0"
END

#endif // APSTUDIO_INVOKED

#ifdef _MAC
////////////////////////////////////
////////////////////////////////////
//
// Version
//

VS_VERSION_INFO VERSIONINFO
FILEVERSION 1,0,0,1
PRODUCTVERSION 1,0,0,1
FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
FILEFLAGS 0x1L
#else
FILEFLAGS 0x0L
#endif
FILEOS 0x4L
FILETYPE 0x2L
FILESUBTYPE 0x0L
BEGIN
    BLOCK "StringFileInfo"
    BEGIN
        BLOCK "040904B0"
        BEGIN
```

```
        VALUE "CompanyName", "\0"
        VALUE "FileDescription", "tpcc_com_all
Module\0"
        VALUE "FileVersion", "1, 0, 0, 1\0"
        VALUE "InternalName", "TPCCNEWORDER\0"
        VALUE "LegalCopyright", "Copyright
1997\0"
        VALUE "OriginalFilename",
"tpcc_com_all.DLL\0"
        VALUE "ProductName", "tpcc_com_all
Module\0"
        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
////////////////////////////////////
////////////////////////////////////

#ifdef APSTUDIO_INVOKED
////////////////////////////////////
////////////////////////////////////
//
// Generated from the TEXTINCLUDE 3 resource.
```



```
//
1 TYPELIB "tpcc_com_all.tlb"

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

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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run),
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_AXP64)

#ifdef __cplusplus
extern "C"{
#endif

#include <rpc.h>
#include <rpcndr.h>

#ifdef _MIDL_USE_GUIDDEF_

#ifndef INITGUID
#define INITGUID
#include <guiddef.h>
#undef INITGUID
#else
#include <guiddef.h>
#endif

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

```
DEFINE_GUID(name,l,w1,w2,b1,b2,b3,b4,b5,b6,b7,b8)

#else // !_MIDL_USE_GUIDDEF_

#ifndef __IID_DEFINED__
#define __IID_DEFINED__

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

#endif // __IID_DEFINED__

#ifndef CLSID_DEFINED
#define CLSID_DEFINED
typedef IID CLSID;
#endif // CLSID_DEFINED

#define
MIDL_DEFINE_GUID(type,name,l,w1,w2,b1,b2,b3,b4,b5,b6,
b7,b8) \
    const type name =
    {l,w1,w2,{b1,b2,b3,b4,b5,b6,b7,b8}}

#endif !_MIDL_USE_GUIDDEF_

MIDL_DEFINE_GUID(IID,
LIBID_TPCLLib,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

#endif /* !defined(_M_IA64) && !defined(_M_AXP64)*/

#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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run,appending), 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_AXP64)

#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 __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,
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_AXP64) */

```

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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=12), W1, Zp8, env=Win32 (32b run),
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( )

#ifdef !defined(_M_IA64) && !defined(_M_AXP64)

#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,
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_AXP64) */

```

```

#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 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run, appending), 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_HEADER( )

#if defined(_M_IA64) || defined(_M_AXP64)

#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,
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_AXP64) */

```

tpcc_com_no.rgs

```

HKCR
{
    TPCC.NewOrder.1 = s 'NewOrder Class'
    {
        CLSID = s '{975BAABF-84A7-11D2-
BA47-00C04FBFE08B}'
    }
    TPCC.NewOrder = s 'NewOrder Class'
    {
        CurVer = s 'TPCC.NewOrder.1'
    }
    NoRemove CLSID
    {
        ForceRemove {975BAABF-84A7-11D2-
BA47-00C04FBFE08B} = s 'NewOrder Class'
    }
    'TPCC.NewOrder.1'
        ProgID = s

        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'
    }
    'TPCC.OrderStatus.1'
        ProgID = s

        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%'
        }
    }
    ThreadingModel = s 'Both'
}
}

```

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 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run),
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_AXP64)
#define USE_STUBLESS_PROXY

/* verify that the <rpcproxy.h> version is high
enough to compile this file*/
#ifndef REDO_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 997
#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;

extern const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString;

/* 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={0xFE6E6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
{
    0,
    34,
    68,
    102,
    136,
    170
};

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0
};

CINTERFACE_PROXY_VTABLE(9) _ITPCCProxyVtbl =
{
    &ITPCC_ProxyInfo,
    &IID_ITPCC,
    IUnknown_QueryInterface_Proxy,
    IUnknown_AddRef_Proxy,
    IUnknown_Release_Proxy ,
    (void *)-1 /* ITPCC::NewOrder */ ,
    (void *)-1 /* ITPCC::Payment */ ,
    (void *)-1 /* ITPCC::Delivery */ ,
    (void *)-1 /* ITPCC::StockLevel */ ,
    (void *)-1 /* ITPCC::OrderStatus */ ,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =

```

```

{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

static const MIDL_STUB_DESC Object_StubDesc =
{
    0,
    NdrOleAllocate,
    NdrOleFree,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0x5030118, /* MIDL Version 5.3.280 */
    0,
    UserMarshalRoutines,
    0, /* notify & notify_flag routine table */
    0x1, /* MIDL flag */
    0, /* Reserved3 */
    0, /* Reserved4 */
    0 /* Reserved5 */
};

#pragma data_seg("rdata")

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
{
    {
        VARIANT_UserSize,
        VARIANT_UserMarshal,
        VARIANT_UserUnmarshal,
        VARIANT_UserFree
    }
};

#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_marshall] or
[user_marshall] 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 /*
        Old Flags: object, Oi2 */
        /* 2 */ NdrPcLong( 0x0 ), /* 0 */
        /* 6 */ NdrPcShort( 0x3 ), /* 3 */
        #ifndef _ALPHA_
        #ifndef _PPC_
        #if !defined(_MIPS_)
        /* 8 */ NdrPcShort( 0x1c ), /* x86 Stack
        size/offset = 28 */
        #else
        NdrPcShort( 0x20 ), /*
        MIPS Stack size/offset = 32 */
        #endif
        #else
        NdrPcShort( 0x20 ), /*
        PPC Stack size/offset = 32 */
        #endif
        #else
        NdrPcShort( 0x28 ), /*
        Alpha Stack size/offset = 40 */
        #endif
        /* 10 */ NdrPcShort( 0x0 ), /* 0 */
        /* 12 */ NdrPcShort( 0x8 ), /* 8 */
        /* 14 */ 0x7, /* Oi2 Flags: srv must
        size, clt must size, has return, */
        0x3, /*
        3 */

        /* Parameter txn_in */
        /* 16 */ NdrPcShort( 0x8b ), /* Flags: must size,
        must free, in, by val, */
        #ifndef _ALPHA_
        #ifndef _PPC_
        #if !defined(_MIPS_)
        /* 18 */ NdrPcShort( 0x4 ), /* x86 Stack
        size/offset = 4 */
        #else
        NdrPcShort( 0x8 ), /*
        MIPS Stack size/offset = 8 */
        #endif
        #else
        NdrPcShort( 0x8 ), /*
        PPC Stack size/offset = 8 */
        #endif
        #else
        NdrPcShort( 0x8 ), /*
        Alpha Stack size/offset = 8 */

```

```

#endif
/* 20 */ NdrPcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 22 */ NdrPcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 24 */ NdrPcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrPcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrPcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrPcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 26 */ NdrPcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 28 */ NdrPcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 30 */ NdrPcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrPcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrPcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrPcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 32 */ 0x8, /* FC_LONG */
0x0, /*
0 */

/* Procedure Payment */

/* 34 */ 0x33, /* FC_AUTO_HANDLE */
0x6c, /*

Old Flags: object, Oi2 */
/* 36 */ NdrPcLong( 0x0 ), /* 0 */
/* 40 */ NdrPcShort( 0x4 ), /* 4 */
#ifndef _ALPHA_
#ifndef _PPC_

```

```

#if !defined(_MIPS_)
/* 42 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 52 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 54 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 56 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 58 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */

```

```

#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 60 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 62 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 64 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 76 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 86 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 88 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 90 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 92 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 94 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 96 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 98 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif

```

```

#else
                                NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 110 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 120 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */

```

```

#endif
/* 122 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 124 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 126 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
                                NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 128 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 130 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 132 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
                                NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef ALPHA_
#ifndef PPC_

```

```

#if !defined( MIPS_ )
/* 144 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 154 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 156 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 158 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 160 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
                                NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */

```

```

#endif
#else
    NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 162 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

    /* Return value */

/* 164 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA_
#ifdef PPC_
#ifdef MIPS_
/* 166 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
    NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
    NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
    NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 168 */ 0x8, /* FC_LONG */
/* 0 */ 0x0, /*

    /* Procedure CallSetComplete */

/* 170 */ 0x33, /* FC_AUTO_HANDLE */
/* 0x6c, */

Old Flags: object, Oi2 */
/* 172 */ NdrFcLong( 0x0 ), /* 0 */
/* 176 */ NdrFcShort( 0x8 ), /* 8 */
#ifdef ALPHA_
/* 178 */ NdrFcShort( 0x8 ), /* x86, MIPS, PPC Stack
size/offset = 8 */
#else
    NdrFcShort( 0x10 ), /*
Alpha Stack size/offset = 16 */
#endif
/* 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, */
#ifdef ALPHA_
/* 188 */ NdrFcShort( 0x4 ), /* x86, MIPS, PPC Stack
size/offset = 4 */
#else

```

```

    NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 190 */ 0x8, /* FC_LONG */
/* 0 */ 0x0, /*

    }
};

static const MIDL_TYPE_FORMAT_STRING
_MIDL_TypeFormatString =
{
    0,
    {
        NdrFcShort( 0x0 ), /*
0 */
/* 2 */
0x12, 0x0, /*
FC_UP */
/* 4 */ NdrFcShort( 0x3b0 ), /* Offset=
944 (948) */
/* 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( 0x2b ), /* 43 */
/* 18 */ NdrFcLong( 0x3 ), /* 3 */
/* 22 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 24 */ NdrFcLong( 0x11 ), /* 17 */
/* 28 */ NdrFcShort( 0x8001 ), /* Simple arm
type: FC_BYTE */
/* 30 */ NdrFcLong( 0x2 ), /* 2 */
/* 34 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 36 */ NdrFcLong( 0x4 ), /* 4 */
/* 40 */ NdrFcShort( 0x800a ), /* Simple arm
type: FC_FLOAT */
/* 42 */ NdrFcLong( 0x5 ), /* 5 */
/* 46 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 48 */ NdrFcLong( 0xb ), /* 11 */
/* 52 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 54 */ NdrFcLong( 0xa ), /* 10 */
/* 58 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 60 */ NdrFcLong( 0x6 ), /* 6 */
/* 64 */ NdrFcShort( 0xd6 ), /* Offset= 214 (278) */
/* 66 */ NdrFcLong( 0x7 ), /* 7 */
/* 70 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 72 */ NdrFcLong( 0x8 ), /* 8 */

```

```

/* 76 */ NdrFcShort( 0xd0 ), /* Offset= 208 (284) */
/* 78 */ NdrFcLong( 0xd ), /* 13 */
/* 82 */ NdrFcShort( 0xe2 ), /* Offset= 226 (308) */
/* 84 */ NdrFcLong( 0x9 ), /* 9 */
/* 88 */ NdrFcShort( 0xee ), /* Offset= 238 (326) */
/* 90 */ NdrFcLong( 0x2000 ), /* 8192 */
/* 94 */ NdrFcShort( 0xfa ), /* Offset= 250 (344) */
/* 96 */ NdrFcLong( 0x24 ), /* 36 */
/* 100 */ NdrFcShort( 0x308 ), /* Offset=
776 (876) */
/* 102 */ NdrFcLong( 0x4024 ), /* 16420 */
/* 106 */ NdrFcShort( 0x302 ), /* Offset=
770 (876) */
/* 108 */ NdrFcLong( 0x4011 ), /* 16401 */
/* 112 */ NdrFcShort( 0x300 ), /* Offset=
768 (880) */
/* 114 */ NdrFcLong( 0x4002 ), /* 16386 */
/* 118 */ NdrFcShort( 0x2fe ), /* Offset=
766 (884) */
/* 120 */ NdrFcLong( 0x4003 ), /* 16387 */
/* 124 */ NdrFcShort( 0x2fc ), /* Offset=
764 (888) */
/* 126 */ NdrFcLong( 0x4004 ), /* 16388 */
/* 130 */ NdrFcShort( 0x2fa ), /* Offset=
762 (892) */
/* 132 */ NdrFcLong( 0x4005 ), /* 16389 */
/* 136 */ NdrFcShort( 0x2f8 ), /* Offset=
760 (896) */
/* 138 */ NdrFcLong( 0x400b ), /* 16395 */
/* 142 */ NdrFcShort( 0x2e6 ), /* Offset=
742 (884) */
/* 144 */ NdrFcLong( 0x400a ), /* 16394 */
/* 148 */ NdrFcShort( 0x2e4 ), /* Offset=
740 (888) */
/* 150 */ NdrFcLong( 0x4006 ), /* 16390 */
/* 154 */ NdrFcShort( 0x2ea ), /* Offset=
746 (900) */
/* 156 */ NdrFcLong( 0x4007 ), /* 16391 */
/* 160 */ NdrFcShort( 0x2e0 ), /* Offset=
736 (896) */
/* 162 */ NdrFcLong( 0x4008 ), /* 16392 */
/* 166 */ NdrFcShort( 0x2e2 ), /* Offset=
738 (904) */
/* 168 */ NdrFcLong( 0x400d ), /* 16397 */
/* 172 */ NdrFcShort( 0x2e0 ), /* Offset=
736 (908) */
/* 174 */ NdrFcLong( 0x4009 ), /* 16393 */
/* 178 */ NdrFcShort( 0x2de ), /* Offset=
734 (912) */
/* 180 */ NdrFcLong( 0x6000 ), /* 24576 */
/* 184 */ NdrFcShort( 0x2dc ), /* Offset=
732 (916) */
/* 186 */ NdrFcLong( 0x400c ), /* 16396 */
/* 190 */ NdrFcShort( 0x2da ), /* Offset=
730 (920) */
/* 192 */ NdrFcLong( 0x10 ), /* 16 */
/* 196 */ NdrFcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 198 */ NdrFcLong( 0x12 ), /* 18 */
/* 202 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 204 */ NdrFcLong( 0x13 ), /* 19 */

```



```

/* 208 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 210 */ NdrFcLong( 0x16 ), /* 22 */
/* 214 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 216 */ NdrFcLong( 0x17 ), /* 23 */
/* 220 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 222 */ NdrFcLong( 0xe ), /* 14 */
/* 226 */ NdrFcShort( 0x2be ), /* Offset=
702 (928) */
/* 228 */ NdrFcLong( 0x400e ), /* 16398 */
/* 232 */ NdrFcShort( 0x2c4 ), /* Offset=
708 (940) */
/* 234 */ NdrFcLong( 0x4010 ), /* 16400 */
/* 238 */ NdrFcShort( 0x2c2 ), /* Offset=
706 (944) */
/* 240 */ NdrFcLong( 0x4012 ), /* 16402 */
/* 244 */ NdrFcShort( 0x280 ), /* Offset=
640 (884) */
/* 246 */ NdrFcLong( 0x4013 ), /* 16403 */
/* 250 */ NdrFcShort( 0x27e ), /* Offset=
638 (888) */
/* 252 */ NdrFcLong( 0x4016 ), /* 16406 */
/* 256 */ NdrFcShort( 0x278 ), /* Offset=
632 (888) */
/* 258 */ NdrFcLong( 0x4017 ), /* 16407 */
/* 262 */ NdrFcShort( 0x272 ), /* Offset=
626 (888) */
/* 264 */ NdrFcLong( 0x0 ), /* 0 */
/* 268 */ NdrFcShort( 0x0 ), /* Offset= 0 (268) */
/* 270 */ NdrFcLong( 0x1 ), /* 1 */
/* 274 */ NdrFcShort( 0x0 ), /* Offset= 0 (274) */
/* 276 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(275) */
/* 278 */

FC_STRUCT */
0x15, /*
7 */
/* 280 */ NdrFcShort( 0x8 ), /* 8 */
/* 282 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 284 */

0x12, 0x0, /*
FC_UP */
/* 286 */ NdrFcShort( 0xc ), /* Offset= 12 (298) */
/* 288 */

0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 290 */ NdrFcShort( 0x2 ), /* 2 */
/* 292 */ 0x9, /* Corr desc: FC_ULONG
*/
0x0, /*
*/
/* 294 */ NdrFcShort( 0xffffc ), /* -4 */
/* 296 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 298 */

```

```

0x17, /*
FC_CSTRUCT */
0x3, /*
3 */
/* 300 */ NdrFcShort( 0x8 ), /* 8 */
/* 302 */ NdrFcShort( 0xffffffff2 ), /* Offset= -
14 (288) */
/* 304 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 306 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 308 */

0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 310 */ NdrFcLong( 0x0 ), /* 0 */
/* 314 */ NdrFcShort( 0x0 ), /* 0 */
/* 316 */ NdrFcShort( 0x0 ), /* 0 */
/* 318 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 320 */ 0x0, /* 0 */
0x0, /*
0 */
/* 322 */ 0x0, /* 0 */
0x0, /*
0 */
/* 324 */ 0x0, /* 0 */
0x46, /*
70 */
/* 326 */

0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 328 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 332 */ NdrFcShort( 0x0 ), /* 0 */
/* 334 */ NdrFcShort( 0x0 ), /* 0 */
/* 336 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 338 */ 0x0, /* 0 */
0x0, /*
0 */
/* 340 */ 0x0, /* 0 */
0x0, /*
0 */
/* 342 */ 0x0, /* 0 */
0x46, /*
70 */
/* 344 */

0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 346 */ NdrFcShort( 0x2 ), /* Offset= 2 (348) */
/* 348 */

0x12, 0x0, /*
FC_UP */
/* 350 */ NdrFcShort( 0x1fc ), /* Offset=
508 (858) */
/* 352 */

```

```

0x2a, /*
FC_ENCAPSULATED_UNION */
0x49, /*
73 */
/* 354 */ NdrFcShort( 0x18 ), /* 24 */
/* 356 */ NdrFcShort( 0xa ), /* 10 */
/* 358 */ NdrFcLong( 0x8 ), /* 8 */
/* 362 */ NdrFcShort( 0x58 ), /* Offset= 88 (450) */
/* 364 */ NdrFcLong( 0xd ), /* 13 */
/* 368 */ NdrFcShort( 0x78 ), /* Offset= 120 (488) */
/* 370 */ NdrFcLong( 0x9 ), /* 9 */
/* 374 */ NdrFcShort( 0x94 ), /* Offset= 148 (522) */
/* 376 */ NdrFcLong( 0xc ), /* 12 */
/* 380 */ NdrFcShort( 0xbc ), /* Offset= 188 (568) */
/* 382 */ NdrFcLong( 0x24 ), /* 36 */
/* 386 */ NdrFcShort( 0x114 ), /* Offset=
276 (662) */
/* 388 */ NdrFcLong( 0x800d ), /* 32781 */
/* 392 */ NdrFcShort( 0x130 ), /* Offset=
304 (696) */
/* 394 */ NdrFcLong( 0x10 ), /* 16 */
/* 398 */ NdrFcShort( 0x148 ), /* Offset=
328 (726) */
/* 400 */ NdrFcLong( 0x2 ), /* 2 */
/* 404 */ NdrFcShort( 0x160 ), /* Offset=
352 (756) */
/* 406 */ NdrFcLong( 0x3 ), /* 3 */
/* 410 */ NdrFcShort( 0x178 ), /* Offset=
376 (786) */
/* 412 */ NdrFcLong( 0x14 ), /* 20 */
/* 416 */ NdrFcShort( 0x190 ), /* Offset=
400 (816) */
/* 418 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(417) */
/* 420 */

0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 422 */ NdrFcShort( 0x4 ), /* 4 */
/* 424 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 426 */ NdrFcShort( 0x0 ), /* 0 */
/* 428 */

0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 430 */

0x48, /*
FC_VARIABLE_REPEAT */
0x49, /*
FC_FIXED_OFFSET */
/* 432 */ NdrFcShort( 0x4 ), /* 4 */
/* 434 */ NdrFcShort( 0x0 ), /* 0 */
/* 436 */ NdrFcShort( 0x1 ), /* 1 */
/* 438 */ NdrFcShort( 0x0 ), /* 0 */
/* 440 */ NdrFcShort( 0x0 ), /* 0 */
/* 442 */ 0x12, 0x0, /* FC_UP */
/* 444 */ NdrFcShort( 0xffffffff6e ), /* Offset= -
146 (298) */

```

```

/* 446 */
FC_END */
0x5b, /*
/*
FC_LONG */
/* 448 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 450 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 452 */ NdrFcShort( 0x8 ), /* 8 */
/* 454 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 456 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 458 */ NdrFcShort( 0x4 ), /* 4 */
/* 460 */ NdrFcShort( 0x4 ), /* 4 */
/* 462 */ 0x11, 0x0, /* FC_RP */
/* 464 */ NdrFcShort( 0xfffffd4 ), /* Offset= -
44 (420) */
/* 466 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 468 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 470 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 472 */ NdrFcShort( 0x0 ), /* 0 */
/* 474 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 476 */ NdrFcShort( 0x0 ), /* 0 */
/* 478 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 482 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 484 */ NdrFcShort( 0xfffff50 ), /* Offset= -
176 (308) */
/* 486 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 488 */
0x1a, /*
FC_BOGUS_STRUCT */

0x3, /*
3 */
/* 490 */ NdrFcShort( 0x8 ), /* 8 */
/* 492 */ NdrFcShort( 0x0 ), /* 0 */
/* 494 */ NdrFcShort( 0x6 ), /* Offset= 6 (500) */
/* 496 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 498 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 500 */
0x11, 0x0, /*
FC_RP */
/* 502 */ NdrFcShort( 0xffffffe0 ), /* Offset= -
32 (470) */
/* 504 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 506 */ NdrFcShort( 0x0 ), /* 0 */
/* 508 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 510 */ NdrFcShort( 0x0 ), /* 0 */
/* 512 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 518 */ NdrFcShort( 0xfffff40 ), /* Offset= -
192 (326) */
/* 520 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 522 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 524 */ NdrFcShort( 0x8 ), /* 8 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 532 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 534 */
0x11, 0x0, /*
FC_RP */
/* 536 */ NdrFcShort( 0xffffffe0 ), /* Offset= -
32 (504) */
/* 538 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 540 */ NdrFcShort( 0x4 ), /* 4 */

0x3, /*
*/
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 544 */ NdrFcShort( 0x0 ), /* 0 */
/* 546 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 548 */
0x48, /*
FC_VARIABLE_REPEAT */
0x49, /*
FC_FIXED_OFFSET */
/* 550 */ NdrFcShort( 0x4 ), /* 4 */
/* 552 */ NdrFcShort( 0x0 ), /* 0 */
/* 554 */ NdrFcShort( 0x1 ), /* 1 */
/* 556 */ NdrFcShort( 0x0 ), /* 0 */
/* 558 */ NdrFcShort( 0x0 ), /* 0 */
/* 560 */ 0x12, 0x0, /* FC_UP */
/* 562 */ NdrFcShort( 0x182 ), /* Offset=
386 (948) */
/* 564 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 566 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 568 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 570 */ NdrFcShort( 0x8 ), /* 8 */
/* 572 */ NdrFcShort( 0x0 ), /* 0 */
/* 574 */ NdrFcShort( 0x6 ), /* Offset= 6 (580) */
/* 576 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 578 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 580 */
0x11, 0x0, /*
FC_RP */
/* 582 */ NdrFcShort( 0xfffffd4 ), /* Offset= -
44 (538) */
/* 584 */
0x2E, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 586 */ NdrFcLong( 0x2f ), /* 47 */
/* 590 */ NdrFcShort( 0x0 ), /* 0 */
/* 592 */ NdrFcShort( 0x0 ), /* 0 */
/* 594 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 596 */ 0x0, /* 0 */

```

```

0x0, /*
0 */
/* 598 */ 0x0, /* 0 */
0x0, /*
0 */
/* 600 */ 0x0, /* 0 */
0x46, /*
70 */
/* 602 */
FC_CARRAY */
0x1b, /*
0x0, /*
0 */
/* 604 */ NdrFcShort( 0x1 ), /* 1 */
/* 606 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 608 */ NdrFcShort( 0x4 ), /* 4 */
/* 610 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 612 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 614 */ NdrFcShort( 0x10 ), /* 16 */
/* 616 */ NdrFcShort( 0x0 ), /* 0 */
/* 618 */ NdrFcShort( 0xa ), /* Offset= 10 (628) */
/* 620 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 622 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 624 */ NdrFcShort( 0xfffffd8 ), /* Offset= -
40 (584) */
/* 626 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 628 */
0x12, 0x0, /*
FC_UP */
/* 630 */ NdrFcShort( 0xfffffe4 ), /* Offset= -
28 (602) */
/* 632 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 634 */ NdrFcShort( 0x4 ), /* 4 */
/* 636 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 638 */ NdrFcShort( 0x0 ), /* 0 */
/* 640 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */

```

```

/* 642 */
FC_VARIABLE_REPEAT */
0x48, /*
FC_FIXED_OFFSET */
/* 644 */ NdrFcShort( 0x4 ), /* 4 */
/* 646 */ NdrFcShort( 0x0 ), /* 0 */
/* 648 */ NdrFcShort( 0x1 ), /* 1 */
/* 650 */ NdrFcShort( 0x0 ), /* 0 */
/* 652 */ NdrFcShort( 0x0 ), /* 0 */
/* 654 */ 0x12, 0x0, /* FC_UP */
/* 656 */ NdrFcShort( 0xfffffd4 ), /* Offset= -
44 (612) */
/* 658 */
0x5b, /*
FC_END */
0x0, /*
FC_LONG */
/* 660 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 662 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 664 */ NdrFcShort( 0x8 ), /* 8 */
/* 666 */ NdrFcShort( 0x0 ), /* 0 */
/* 668 */ NdrFcShort( 0x6 ), /* Offset= 6 (674) */
/* 670 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 672 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 674 */
0x11, 0x0, /*
FC_RP */
/* 676 */ NdrFcShort( 0xfffffd4 ), /* Offset= -
44 (632) */
/* 678 */
0x1d, /*
FC_SMPARRAY */
0x0, /*
0 */
/* 680 */ NdrFcShort( 0x8 ), /* 8 */
/* 682 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 684 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 686 */ NdrFcShort( 0x10 ), /* 16 */
/* 688 */ 0x8, /* FC_LONG */
0x6, /*
FC_SHORT */
/* 690 */ 0x6, /* FC_SHORT */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 692 */ 0x0, /* 0 */

```

```

NdrFcShort( 0xffffffff
), /* Offset= -15 (678) */
0x5b, /*
FC_END */
/* 696 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 698 */ NdrFcShort( 0x18 ), /* 24 */
/* 700 */ NdrFcShort( 0x0 ), /* 0 */
/* 702 */ NdrFcShort( 0xa ), /* Offset= 10 (712) */
/* 704 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 706 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 708 */ NdrFcShort( 0xfffffe8 ), /* Offset= -
24 (684) */
/* 710 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 712 */
0x11, 0x0, /*
FC_RP */
/* 714 */ NdrFcShort( 0xfffff0c ), /* Offset= -
244 (470) */
/* 716 */
0x1b, /*
FC_CARRAY */
0x0, /*
0 */
/* 718 */ NdrFcShort( 0x1 ), /* 1 */
/* 720 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 722 */ NdrFcShort( 0x0 ), /* 0 */
/* 724 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 726 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 728 */ NdrFcShort( 0x8 ), /* 8 */
/* 730 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 732 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 734 */ NdrFcShort( 0x4 ), /* 4 */
/* 736 */ NdrFcShort( 0x4 ), /* 4 */
/* 738 */ 0x12, 0x0, /* FC_UP */

```

```

/* 740 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (716) */
/* 742 */
FC_END */
0x5b, /*
FC_LONG */
/* 744 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 746 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 748 */ NdrFcShort( 0x2 ), /* 2 */
/* 750 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 752 */ NdrFcShort( 0x0 ), /* 0 */
/* 754 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 756 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 758 */ NdrFcShort( 0x8 ), /* 8 */
/* 760 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 762 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 764 */ NdrFcShort( 0x4 ), /* 4 */
/* 766 */ NdrFcShort( 0x4 ), /* 4 */
/* 768 */ 0x12, 0x0, /* FC_UP */
/* 770 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (746) */
/* 772 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 774 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 776 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 778 */ NdrFcShort( 0x4 ), /* 4 */
/* 780 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */

```

```

0x0, /*
*/
/* 782 */ NdrFcShort( 0x0 ), /* 0 */
/* 784 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 786 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 788 */ NdrFcShort( 0x8 ), /* 8 */
/* 790 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 792 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 794 */ NdrFcShort( 0x4 ), /* 4 */
/* 796 */ NdrFcShort( 0x4 ), /* 4 */
/* 798 */ 0x12, 0x0, /* FC_UP */
/* 800 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (776) */
/* 802 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 804 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 806 */
0x1b, /*
FC_CARRAY */
0x7, /*
7 */
/* 808 */ NdrFcShort( 0x8 ), /* 8 */
/* 810 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 812 */ NdrFcShort( 0x0 ), /* 0 */
/* 814 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 816 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 818 */ NdrFcShort( 0x8 ), /* 8 */
/* 820 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 822 */

```

```

0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 824 */ NdrFcShort( 0x4 ), /* 4 */
/* 826 */ NdrFcShort( 0x4 ), /* 4 */
/* 828 */ 0x12, 0x0, /* FC_UP */
/* 830 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (806) */
/* 832 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 834 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 836 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 838 */ NdrFcShort( 0x8 ), /* 8 */
/* 840 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 842 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 844 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 846 */ NdrFcShort( 0x8 ), /* 8 */
/* 848 */ 0x7, /* Corr desc: FC_USHORT
*/
0x0, /*
*/
/* 850 */ NdrFcShort( 0xffd8 ), /* -40 */
/* 852 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 854 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
18 (836) */
/* 856 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 858 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 860 */ NdrFcShort( 0x28 ), /* 40 */
/* 862 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
18 (844) */
/* 864 */ NdrFcShort( 0x0 ), /* Offset= 0 (864) */
/* 866 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 868 */ 0x38, /* FC_ALIGN4 */

```

```

0x8, /*
FC_LONG */
/* 870 */ 0x8, /* FC_LONG */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 872 */ 0x0, /* 0 */
NdrPcShort( 0xfffffdf7
), /* Offset= -521 (352) */
0x5b, /*
FC_END */
/* 876 */
0x12, 0x0, /*
FC_UP */
/* 878 */ NdrPcShort( 0xfffffef6 ), /* Offset= -
266 (612) */
/* 880 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 882 */ 0x1, /* FC_BYTE */
0x5c, /*
FC_PAD */
/* 884 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 886 */ 0x6, /* FC_SHORT */
0x5c, /*
FC_PAD */
/* 888 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 890 */ 0x8, /* FC_LONG */
0x5c, /*
FC_PAD */
/* 892 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 894 */ 0xa, /* FC_FLOAT */
0x5c, /*
FC_PAD */
/* 896 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 898 */ 0xc, /* FC_DOUBLE */
0x5c, /*
FC_PAD */
/* 900 */
0x12, 0x0, /*
FC_UP */
/* 902 */ NdrPcShort( 0xfffffd90 ), /* Offset= -
624 (278) */
/* 904 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 906 */ NdrPcShort( 0xfffffd92 ), /* Offset= -
622 (284) */
/* 908 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 910 */ NdrPcShort( 0xfffffda6 ), /* Offset= -
602 (308) */
/* 912 */
0x12, 0x10, /*
FC_UP [pointer_deref] */

```

```

/* 914 */ NdrPcShort( 0xfffffdb4 ), /* Offset= -
588 (326) */
/* 916 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 918 */ NdrPcShort( 0xfffffdc2 ), /* Offset= -
574 (344) */
/* 920 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 922 */ NdrPcShort( 0x2 ), /* Offset= 2 (924) */
/* 924 */
0x12, 0x0, /*
FC_UP */
/* 926 */ NdrPcShort( 0x16 ), /* Offset= 22 (948) */
/* 928 */
0x15, /*
FC_STRUCT */
0x7, /*
7 */
/* 930 */ NdrPcShort( 0x10 ), /* 16 */
/* 932 */ 0x6, /* FC_SHORT */
0x1, /*
FC_BYTE */
/* 934 */ 0x1, /* FC_BYTE */
0x38, /*
FC_ALIGNM4 */
/* 936 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 938 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 940 */
0x12, 0x0, /*
FC_UP */
/* 942 */ NdrPcShort( 0xfffffff2 ), /* Offset= -
14 (928) */
/* 944 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 946 */ 0x2, /* FC_CHAR */
0x5c, /*
FC_PAD */
/* 948 */
0x1a, /*
FC_BOGUS_STRUCT */
0x7, /*
7 */
/* 950 */ NdrPcShort( 0x20 ), /* 32 */
/* 952 */ NdrPcShort( 0x0 ), /* 0 */
/* 954 */ NdrPcShort( 0x0 ), /* Offset= 0 (954) */
/* 956 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 958 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 960 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 962 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/

```

```

0x0, /*
0 */
/* 964 */ NdrPcShort( 0xfffffc42 ), /* Offset= -
958 (6) */
/* 966 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 968 */ 0xb4, /* FC_USER_MARSHAL */
0x83, /*
131 */
/* 970 */ NdrPcShort( 0x0 ), /* 0 */
/* 972 */ NdrPcShort( 0x10 ), /* 16 */
/* 974 */ NdrPcShort( 0x0 ), /* 0 */
/* 976 */ NdrPcShort( 0xfffffc32 ), /* Offset= -
974 (2) */
/* 978 */
0x11, 0x4, /*
FC_RP [allocated_on_stack] */
/* 980 */ NdrPcShort( 0x6 ), /* Offset= 6 (986) */
/* 982 */
0x13, 0x0, /*
FC_OP */
/* 984 */ NdrPcShort( 0xfffffcdc ), /* Offset= -
36 (948) */
/* 986 */ 0xb4, /* FC_USER_MARSHAL */
0x83, /*
131 */
/* 988 */ NdrPcShort( 0x0 ), /* 0 */
/* 990 */ NdrPcShort( 0x10 ), /* 16 */
/* 992 */ NdrPcShort( 0x0 ), /* 0 */
/* 994 */ NdrPcShort( 0xfffffff4 ), /* Offset= -
12 (982) */
0x0
}
};
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_AXP64) */

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

/* this ALWAYS GENERATED file contains the proxy stub
code */

/* File created by MIDL compiler version 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run,appending), 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_HEADERING( )

#if defined(_M_IA64) || defined(_M_AXP64)
#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 979
#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;

extern const MIDL_TYPE_FORMAT_STRING
_MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
_MIDL_ProcFormatString;

/* 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={0xFEED6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

```

```

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
{
    0,
    44,
    88,
    132,
    176,
    220
};

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    _MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    _MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0
};

CINTERFACE_PROXY_VTABLE(9) _ITPCCProxyVtbl =
{
    &ITPCC_ProxyInfo,
    &IID_ITPCC,
    IUnknown_QueryInterface_Proxy,
    IUnknown_AddRef_Proxy,
    IUnknown_Release_Proxy ,
    (void *)-1 /* ITPCC::NewOrder */ ,
    (void *)-1 /* ITPCC::Payment */ ,
    (void *)-1 /* ITPCC::Delivery */ ,
    (void *)-1 /* ITPCC::StockLevel */ ,
    (void *)-1 /* ITPCC::OrderStatus */ ,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

```



```

/* 84 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifndef ALPHA
/* 96 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifndef ALPHA
/* 116 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 118 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 120 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifndef ALPHA
/* 122 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else

```

```

NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 124 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 126 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef ALPHA
/* 128 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifndef ALPHA
/* 140 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifndef ALPHA
/* 160 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 162 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

```

```

/* Parameter txn_out */

/* 164 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifndef ALPHA
/* 166 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 168 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 170 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef ALPHA
/* 172 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifndef ALPHA
/* 184 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 204 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 206 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 208 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 210 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 212 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 214 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 216 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 218 */ 0x8, /* FC_LONG */
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, axp64 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, axp64 Stack
size/offset = 8 */
/* 250 */ 0x8, /* FC_LONG */
0 */

0 */

}

};

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
0,
{
NdrFcShort( 0x0 ), /*
0 */
/* 2 */
0x12, 0x0, /*
FC_UP */
/* 4 */ NdrFcShort( 0x39e ), /* Offset=
926 (930) */
/* 6 */
FC_NON_ENCAPSULATED_UNION /*
0x9, /*
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( 0x2b ), /* 43 */
/* 20 */ NdrFcLong( 0x3 ), /* 3 */
/* 24 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 26 */ NdrFcLong( 0x11 ), /* 17 */
/* 30 */ NdrFcShort( 0x8001 ), /* Simple arm
type: FC_BYTE */
/* 32 */ NdrFcLong( 0x2 ), /* 2 */
/* 36 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 38 */ NdrFcLong( 0x4 ), /* 4 */
/* 42 */ NdrFcShort( 0x800a ), /* Simple arm
type: FC_FLOAT */
/* 44 */ NdrFcLong( 0x5 ), /* 5 */
/* 48 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 50 */ NdrFcLong( 0xb ), /* 11 */
/* 54 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 56 */ NdrFcLong( 0xa ), /* 10 */

```

```

/* 60 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 62 */ NdrFcLong( 0x6 ), /* 6 */
/* 66 */ NdrFcShort( 0xd6 ), /* Offset= 214 (280) */
/* 68 */ NdrFcLong( 0x7 ), /* 7 */
/* 72 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 74 */ NdrFcLong( 0x8 ), /* 8 */
/* 78 */ NdrFcShort( 0xd0 ), /* Offset= 208 (286) */
/* 80 */ NdrFcLong( 0xd ), /* 13 */
/* 84 */ NdrFcShort( 0xe4 ), /* Offset= 228 (312) */
/* 86 */ NdrFcLong( 0x9 ), /* 9 */
/* 90 */ NdrFcShort( 0xf0 ), /* Offset= 240 (330) */
/* 92 */ NdrFcLong( 0x2000 ), /* 8192 */
/* 96 */ NdrFcShort( 0xfc ), /* Offset= 252 (348) */
/* 98 */ NdrFcLong( 0x24 ), /* 36 */
/* 102 */ NdrFcShort( 0x2f4 ), /* Offset=
756 (858) */
/* 104 */ NdrFcLong( 0x4024 ), /* 16420 */
/* 108 */ NdrFcShort( 0x2ee ), /* Offset=
750 (858) */
/* 110 */ NdrFcLong( 0x4011 ), /* 16401 */
/* 114 */ NdrFcShort( 0x2ec ), /* Offset=
748 (862) */
/* 116 */ NdrFcLong( 0x4002 ), /* 16386 */
/* 120 */ NdrFcShort( 0x2ea ), /* Offset=
746 (866) */
/* 122 */ NdrFcLong( 0x4003 ), /* 16387 */
/* 126 */ NdrFcShort( 0x2e8 ), /* Offset=
744 (870) */
/* 128 */ NdrFcLong( 0x4004 ), /* 16388 */
/* 132 */ NdrFcShort( 0x2e6 ), /* Offset=
742 (874) */
/* 134 */ NdrFcLong( 0x4005 ), /* 16389 */
/* 138 */ NdrFcShort( 0x2e4 ), /* Offset=
740 (878) */
/* 140 */ NdrFcLong( 0x400b ), /* 16395 */
/* 144 */ NdrFcShort( 0x2d2 ), /* Offset=
722 (866) */
/* 146 */ NdrFcLong( 0x400a ), /* 16394 */
/* 150 */ NdrFcShort( 0x2d0 ), /* Offset=
720 (870) */
/* 152 */ NdrFcLong( 0x4006 ), /* 16390 */
/* 156 */ NdrFcShort( 0x2d6 ), /* Offset=
726 (882) */
/* 158 */ NdrFcLong( 0x4007 ), /* 16391 */
/* 162 */ NdrFcShort( 0x2cc ), /* Offset=
716 (878) */
/* 164 */ NdrFcLong( 0x4008 ), /* 16392 */
/* 168 */ NdrFcShort( 0x2ce ), /* Offset=
718 (886) */
/* 170 */ NdrFcLong( 0x400d ), /* 16397 */
/* 174 */ NdrFcShort( 0x2cc ), /* Offset=
716 (890) */
/* 176 */ NdrFcLong( 0x4009 ), /* 16393 */
/* 180 */ NdrFcShort( 0x2ca ), /* Offset=
714 (894) */
/* 182 */ NdrFcLong( 0x6000 ), /* 24576 */
/* 186 */ NdrFcShort( 0x2c8 ), /* Offset=
712 (898) */
/* 188 */ NdrFcLong( 0x400c ), /* 16396 */
/* 192 */ NdrFcShort( 0x2c6 ), /* Offset=
710 (902) */

```

```

/* 194 */ NdrFcLong( 0x10 ), /* 16 */
/* 198 */ NdrFcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 200 */ NdrFcLong( 0x12 ), /* 18 */
/* 204 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 206 */ NdrFcLong( 0x13 ), /* 19 */
/* 210 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 212 */ NdrFcLong( 0x16 ), /* 22 */
/* 216 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 218 */ NdrFcLong( 0x17 ), /* 23 */
/* 222 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 224 */ NdrFcLong( 0xe ), /* 14 */
/* 228 */ NdrFcShort( 0x2aa ), /* Offset=
682 (910) */
/* 230 */ NdrFcLong( 0x400e ), /* 16398 */
/* 234 */ NdrFcShort( 0x2b0 ), /* Offset=
688 (922) */
/* 236 */ NdrFcLong( 0x4010 ), /* 16400 */
/* 240 */ NdrFcShort( 0x2ae ), /* Offset=
686 (926) */
/* 242 */ NdrFcLong( 0x4012 ), /* 16402 */
/* 246 */ NdrFcShort( 0x26c ), /* Offset=
620 (866) */
/* 248 */ NdrFcLong( 0x4013 ), /* 16403 */
/* 252 */ NdrFcShort( 0x26a ), /* Offset=
618 (870) */
/* 254 */ NdrFcLong( 0x4016 ), /* 16406 */
/* 258 */ NdrFcShort( 0x264 ), /* Offset=
612 (870) */
/* 260 */ NdrFcLong( 0x4017 ), /* 16407 */
/* 264 */ NdrFcShort( 0x25e ), /* Offset=
606 (870) */
/* 266 */ NdrFcLong( 0x0 ), /* 0 */
/* 270 */ NdrFcShort( 0x0 ), /* Offset= 0 (270) */
/* 272 */ NdrFcLong( 0x1 ), /* 1 */
/* 276 */ NdrFcShort( 0x0 ), /* Offset= 0 (276) */
/* 278 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(277) */
/* 280 */
FC_STRUCT /*
0x15, /*
7 */
0x7, /*
/* 282 */ NdrFcShort( 0x8 ), /* 8 */
/* 284 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 286 */
0x12, 0x0, /*
FC_UP */
/* 288 */ NdrFcShort( 0xe ), /* Offset= 14 (302) */
/* 290 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 292 */ NdrFcShort( 0x2 ), /* 2 */
/* 294 */ 0x9, /* Corr desc: FC_ULONG
*/

```

```

0x0, /*
*/
/* 296 */ NdrFcShort( 0xfffc ), /* -4 */
/* 298 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 300 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 302 */
0x17, /*
FC_CSTRUCT */
0x3, /*
3 */
/* 304 */ NdrFcShort( 0x8 ), /* 8 */
/* 306 */ NdrFcShort( 0xffffffff0 ), /* Offset= -
16 (290) */
/* 308 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 310 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 312 */
0x2E, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 314 */ NdrFcLong( 0x0 ), /* 0 */
/* 318 */ NdrFcShort( 0x0 ), /* 0 */
/* 320 */ NdrFcShort( 0x0 ), /* 0 */
/* 322 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 324 */ 0x0, /* 0 */
0x0, /*
0 */
/* 326 */ 0x0, /* 0 */
0x0, /*
0 */
/* 328 */ 0x0, /* 0 */
0x46, /*
70 */
/* 330 */
0x2E, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 332 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 336 */ NdrFcShort( 0x0 ), /* 0 */
/* 338 */ NdrFcShort( 0x0 ), /* 0 */
/* 340 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 342 */ 0x0, /* 0 */
0x0, /*
0 */
/* 344 */ 0x0, /* 0 */
0x0, /*
0 */
/* 346 */ 0x0, /* 0 */
0x46, /*
70 */
/* 348 */

```

```

0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 350 */ NdrFcShort( 0x2 ), /* Offset= 2 (352) */
/* 352 */
0x12, 0x0, /*
FC_UP */
/* 354 */ NdrFcShort( 0x1e6 ), /* Offset=
486 (840) */
/* 356 */
0x2a, /*
FC_ENCAPSULATED_UNION */
0x89, /*
137 */
/* 358 */ NdrFcShort( 0x20 ), /* 32 */
/* 360 */ NdrFcShort( 0xa ), /* 10 */
/* 362 */ NdrFcLong( 0x8 ), /* 8 */
/* 366 */ NdrFcShort( 0x50 ), /* Offset= 80 (446) */
/* 368 */ NdrFcLong( 0xd ), /* 13 */
/* 372 */ NdrFcShort( 0x70 ), /* Offset= 112 (484) */
/* 374 */ NdrFcLong( 0x9 ), /* 9 */
/* 378 */ NdrFcShort( 0x90 ), /* Offset= 144 (522) */
/* 380 */ NdrFcLong( 0xc ), /* 12 */
/* 384 */ NdrFcShort( 0xb0 ), /* Offset= 176 (560) */
/* 386 */ NdrFcLong( 0x24 ), /* 36 */
/* 390 */ NdrFcShort( 0x104 ), /* Offset=
260 (650) */
/* 392 */ NdrFcLong( 0x800d ), /* 32781 */
/* 396 */ NdrFcShort( 0x120 ), /* Offset=
288 (684) */
/* 398 */ NdrFcLong( 0x10 ), /* 16 */
/* 402 */ NdrFcShort( 0x13a ), /* Offset=
314 (716) */
/* 404 */ NdrFcLong( 0x2 ), /* 2 */
/* 408 */ NdrFcShort( 0x150 ), /* Offset=
336 (744) */
/* 410 */ NdrFcLong( 0x3 ), /* 3 */
/* 414 */ NdrFcShort( 0x166 ), /* Offset=
358 (772) */
/* 416 */ NdrFcLong( 0x14 ), /* 20 */
/* 420 */ NdrFcShort( 0x17c ), /* Offset=
380 (800) */
/* 422 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(421) */
/* 424 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 426 */ NdrFcShort( 0x0 ), /* 0 */
/* 428 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 430 */ NdrFcShort( 0x0 ), /* 0 */
/* 432 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 434 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 438 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 440 */
0x12, 0x0, /*
FC_UP */
/* 442 */ NdrFcShort( 0xffffffff74 ), /* Offset= -
140 (302) */

```

```

/* 444 */ 0x5c,          /* FC_PAD */
FC_END /*
/* 446 */
FC_BOGUS_STRUCT */
0x1a,          /*
0x3,          /*
3 */
/* 448 */ NdrPcShort( 0x10 ), /* 16 */
/* 450 */ NdrPcShort( 0x0 ), /* 0 */
/* 452 */ NdrPcShort( 0x6 ), /* Offset= 6 (458) */
/* 454 */ 0x8,          /* FC_LONG */
0x39,          /*
FC_ALIGNM8 */
/* 456 */ 0x36,        /* FC_POINTER */
0x5b,          /*
FC_END /*
/* 458 */
0x11, 0x0,     /*
FC_RP */
/* 460 */ NdrPcShort( 0xfffff5dc ), /* Offset= -
36 (424) */
/* 462 */
0x21,          /*
FC_BOGUS_ARRAY */
0x3,          /*
3 */
/* 464 */ NdrPcShort( 0x0 ), /* 0 */
/* 466 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,          /*
*/
/* 468 */ NdrPcShort( 0x0 ), /* 0 */
/* 470 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 472 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 476 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 478 */ 0x4c,        /* FC_EMBEDDED_COMPLEX
*/
0x0,          /*
0 */
/* 480 */ NdrPcShort( 0xfffff58 ), /* Offset= -
168 (312) */
/* 482 */ 0x5c,        /* FC_PAD */
0x5b,          /*
FC_END /*
/* 484 */
0x1a,          /*
FC_BOGUS_STRUCT */
0x3,          /*
0x3,          /*
3 */
/* 486 */ NdrPcShort( 0x10 ), /* 16 */
/* 488 */ NdrPcShort( 0x0 ), /* 0 */
/* 490 */ NdrPcShort( 0x6 ), /* Offset= 6 (496) */
/* 492 */ 0x8,          /* FC_LONG */
0x39,          /*
FC_ALIGNM8 */
/* 494 */ 0x36,        /* FC_POINTER */
0x5b,          /*
FC_END /*
/* 496 */
0x11, 0x0,     /*
FC_RP */

```

```

/* 498 */ NdrPcShort( 0xfffff5dc ), /* Offset= -
36 (462) */
/* 500 */
0x21,          /*
FC_BOGUS_ARRAY */
0x3,          /*
3 */
/* 502 */ NdrPcShort( 0x0 ), /* 0 */
/* 504 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,          /*
*/
/* 506 */ NdrPcShort( 0x0 ), /* 0 */
/* 508 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 510 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 514 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 516 */ 0x4c,        /* FC_EMBEDDED_COMPLEX
*/
0x0,          /*
0 */
/* 518 */ NdrPcShort( 0xfffff44 ), /* Offset= -
188 (330) */
/* 520 */ 0x5c,        /* FC_PAD */
0x5b,          /*
FC_END /*
/* 522 */
0x1a,          /*
FC_BOGUS_STRUCT */
0x3,          /*
3 */
/* 524 */ NdrPcShort( 0x10 ), /* 16 */
/* 526 */ NdrPcShort( 0x0 ), /* 0 */
/* 528 */ NdrPcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8,          /* FC_LONG */
0x39,          /*
FC_ALIGNM8 */
/* 532 */ 0x36,        /* FC_POINTER */
0x5b,          /*
FC_END /*
/* 534 */
0x11, 0x0,     /*
FC_RP */
/* 536 */ NdrPcShort( 0xfffff5dc ), /* Offset= -
36 (500) */
/* 538 */
0x21,          /*
FC_BOGUS_ARRAY */
0x3,          /*
3 */
/* 540 */ NdrPcShort( 0x0 ), /* 0 */
/* 542 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,          /*
*/
/* 544 */ NdrPcShort( 0x0 ), /* 0 */
/* 546 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 548 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 552 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 554 */
0x12, 0x0,     /*
FC_UP */

```

```

/* 556 */ NdrPcShort( 0x176 ), /* Offset=
374 (930) */
/* 558 */ 0x5c,        /* FC_PAD */
0x5b,          /*
FC_END /*
/* 560 */
0x1a,          /*
FC_BOGUS_STRUCT */
0x3,          /*
3 */
/* 562 */ NdrPcShort( 0x10 ), /* 16 */
/* 564 */ NdrPcShort( 0x0 ), /* 0 */
/* 566 */ NdrPcShort( 0x6 ), /* Offset= 6 (572) */
/* 568 */ 0x8,          /* FC_LONG */
0x39,          /*
FC_ALIGNM8 */
/* 570 */ 0x36,        /* FC_POINTER */
0x5b,          /*
FC_END /*
/* 572 */
0x11, 0x0,     /*
FC_RP */
/* 574 */ NdrPcShort( 0xfffff5dc ), /* Offset= -
36 (538) */
/* 576 */
0x2f,          /*
FC_IP */
0x5a,          /*
FC_CONSTANT_IID */
/* 578 */ NdrPcLong( 0x2f ), /* 47 */
/* 582 */ NdrPcShort( 0x0 ), /* 0 */
/* 584 */ NdrPcShort( 0x0 ), /* 0 */
/* 586 */ 0xc0,        /* 192 */
0x0,          /*
0 */
/* 588 */ 0x0,          /* 0 */
0x0,          /*
0 */
/* 590 */ 0x0,          /* 0 */
0x0,          /*
0 */
/* 592 */ 0x0,          /* 0 */
0x46,         /*
70 */
/* 594 */
0x1b,          /*
FC_CARRAY */
0x0,          /*
0 */
/* 596 */ NdrPcShort( 0x1 ), /* 1 */
/* 598 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,          /*
*/
/* 600 */ NdrPcShort( 0x4 ), /* 4 */
/* 602 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 604 */ 0x1,          /* FC_BYTE */
0x5b,          /*
FC_END /*
/* 606 */
0x1a,          /*
FC_BOGUS_STRUCT */

```

```

0x3, /*
3 */
/* 608 */ NdrPcShort( 0x18 ), /* 24 */
/* 610 */ NdrPcShort( 0x0 ), /* 0 */
/* 612 */ NdrPcShort( 0xc ), /* Offset= 12 (624) */
/* 614 */ 0x8, /* FC_LONG */
FC_LONG /*
/* 616 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 618 */ NdrPcShort( 0xfffffd6 ), /* Offset= -
42 (576) */
/* 620 */ 0x39, /* FC_ALIGNM8 */
FC_POINTER /*
/* 622 */ 0x5c, /* FC_PAD */
FC_END /*
/* 624 */
0x12, 0x0, /*
FC_UP /*
/* 626 */ NdrPcShort( 0xfffffe0 ), /* Offset= -
32 (594) */
/* 628 */
0x21, /*
FC_BOGUS_ARRAY /*
0x3, /*
3 */
/* 630 */ NdrPcShort( 0x0 ), /* 0 */
/* 632 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 634 */ NdrPcShort( 0x0 ), /* 0 */
/* 636 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 638 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 642 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 644 */
0x12, 0x0, /*
FC_UP /*
/* 646 */ NdrPcShort( 0xfffffd8 ), /* Offset= -
40 (606) */
/* 648 */ 0x5c, /* FC_PAD */
FC_END /*
/* 650 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 652 */ NdrPcShort( 0x10 ), /* 16 */
/* 654 */ NdrPcShort( 0x0 ), /* 0 */
/* 656 */ NdrPcShort( 0x6 ), /* Offset= 6 (662) */
/* 658 */ 0x8, /* FC_LONG */
FC_ALIGNM8 /*
/* 660 */ 0x36, /* FC_POINTER */
FC_END /*
/* 662 */

```

```

0x11, 0x0, /*
FC_RP /*
/* 664 */ NdrPcShort( 0xfffffdc ), /* Offset= -
36 (628) */
/* 666 */
0x1d, /*
FC_SMPARRAY /*
0x0, /*
0 */
/* 668 */ NdrPcShort( 0x8 ), /* 8 */
/* 670 */ 0x1, /* FC_BYTE */
FC_END /*
/* 672 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 674 */ NdrPcShort( 0x10 ), /* 16 */
/* 676 */ 0x8, /* FC_LONG */
FC_SHORT /*
/* 678 */ 0x6, /* FC_SHORT */
FC_EMBEDDED_COMPLEX /*
/* 680 */ 0x0, /* 0 */
NdrPcShort( 0xffffff1
), /* Offset= -15 (666) */
FC_END /*
/* 684 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 686 */ NdrPcShort( 0x20 ), /* 32 */
/* 688 */ NdrPcShort( 0x0 ), /* 0 */
/* 690 */ NdrPcShort( 0xa ), /* Offset= 10 (700) */
/* 692 */ 0x8, /* FC_LONG */
FC_ALIGNM8 /*
/* 694 */ 0x36, /* FC_POINTER */
FC_EMBEDDED_COMPLEX /*
/* 696 */ 0x0, /* 0 */
NdrPcShort( 0xfffffe7
), /* Offset= -25 (672) */
FC_END /*
/* 700 */
0x11, 0x0, /*
FC_RP /*
/* 702 */ NdrPcShort( 0xffffff10 ), /* Offset= -
240 (462) */
/* 704 */
0x1b, /*
FC_CARRAY /*
0x0, /*
0 */
/* 706 */ NdrPcShort( 0x1 ), /* 1 */
/* 708 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */

```

```

0x0, /*
*/
/* 710 */ NdrPcShort( 0x0 ), /* 0 */
/* 712 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 714 */ 0x1, /* FC_BYTE */
FC_END /*
/* 716 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 718 */ NdrPcShort( 0x10 ), /* 16 */
/* 720 */ NdrPcShort( 0x0 ), /* 0 */
/* 722 */ NdrPcShort( 0x6 ), /* Offset= 6 (728) */
/* 724 */ 0x8, /* FC_LONG */
FC_ALIGNM8 /*
/* 726 */ 0x36, /* FC_POINTER */
FC_END /*
/* 728 */
0x12, 0x0, /*
FC_UP /*
/* 730 */ NdrPcShort( 0xfffffe6 ), /* Offset= -
26 (704) */
/* 732 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 734 */ NdrPcShort( 0x2 ), /* 2 */
/* 736 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 738 */ NdrPcShort( 0x0 ), /* 0 */
/* 740 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 742 */ 0x6, /* FC_SHORT */
FC_END /*
/* 744 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 746 */ NdrPcShort( 0x10 ), /* 16 */
/* 748 */ NdrPcShort( 0x0 ), /* 0 */
/* 750 */ NdrPcShort( 0x6 ), /* Offset= 6 (756) */
/* 752 */ 0x8, /* FC_LONG */
FC_ALIGNM8 /*
/* 754 */ 0x36, /* FC_POINTER */
FC_END /*
/* 756 */
0x12, 0x0, /*
FC_UP /*
/* 758 */ NdrPcShort( 0xfffffe6 ), /* Offset= -
26 (732) */
/* 760 */

```

```

0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 762 */ NdrFcShort( 0x4 ), /* 4 */
/* 764 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 766 */ NdrFcShort( 0x0 ), /* 0 */
/* 768 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 770 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 772 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 774 */ NdrFcShort( 0x10 ), /* 16 */
/* 776 */ NdrFcShort( 0x0 ), /* 0 */
/* 778 */ NdrFcShort( 0x6 ), /* Offset= 6 (784) */
/* 780 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 782 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 784 */
0x12, 0x0, /*
FC_UP */
/* 786 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (760) */
/* 788 */
0x1b, /*
FC_CARRAY */
0x7, /*
7 */
/* 790 */ NdrFcShort( 0x8 ), /* 8 */
/* 792 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 794 */ NdrFcShort( 0x0 ), /* 0 */
/* 796 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 798 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 800 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 802 */ NdrFcShort( 0x10 ), /* 16 */
/* 804 */ NdrFcShort( 0x0 ), /* 0 */
/* 806 */ NdrFcShort( 0x6 ), /* Offset= 6 (812) */
/* 808 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 810 */ 0x36, /* FC_POINTER */

```

```

0x5b, /*
FC_END */
/* 812 */
0x12, 0x0, /*
FC_UP */
/* 814 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (788) */
/* 816 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 818 */ NdrFcShort( 0x8 ), /* 8 */
/* 820 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 822 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 824 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 826 */ NdrFcShort( 0x8 ), /* 8 */
/* 828 */ 0x7, /* Corr desc: FC_USHORT
*/
0x0, /*
*/
/* 830 */ NdrFcShort( 0xffc8 ), /* -56 */
/* 832 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 834 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 836 */ NdrFcShort( 0xffffffffec ), /* Offset= -
20 (816) */
/* 838 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 840 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 842 */ NdrFcShort( 0x38 ), /* 56 */
/* 844 */ NdrFcShort( 0xffffffffec ), /* Offset= -
20 (824) */
/* 846 */ NdrFcShort( 0x0 ), /* Offset= 0 (846) */
/* 848 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 850 */ 0x38, /* FC_ALIGNM4 */
0x8, /*
FC_LONG */
/* 852 */ 0x8, /* FC_LONG */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 854 */ 0x4, /* 4 */
NdrFcShort( 0xfffffe0d
), /* Offset= -499 (356) */

```

```

0x5b, /*
FC_END */
/* 858 */
0x12, 0x0, /*
FC_UP */
/* 860 */ NdrFcShort( 0xffffffff02 ), /* Offset= -
254 (606) */
/* 862 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 864 */ 0x1, /* FC_BYTE */
0x5c, /*
FC_PAD */
/* 866 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 868 */ 0x6, /* FC_SHORT */
0x5c, /*
FC_PAD */
/* 870 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 872 */ 0x8, /* FC_LONG */
0x5c, /*
FC_PAD */
/* 874 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 876 */ 0xa, /* FC_FLOAT */
0x5c, /*
FC_PAD */
/* 878 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 880 */ 0xc, /* FC_DOUBLE */
0x5c, /*
FC_PAD */
/* 882 */
0x12, 0x0, /*
FC_UP */
/* 884 */ NdrFcShort( 0xfffffda4 ), /* Offset= -
604 (280) */
/* 886 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 888 */ NdrFcShort( 0xfffffda6 ), /* Offset= -
602 (286) */
/* 890 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 892 */ NdrFcShort( 0xfffffdbc ), /* Offset= -
580 (312) */
/* 894 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 896 */ NdrFcShort( 0xfffffdca ), /* Offset= -
566 (330) */
/* 898 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 900 */ NdrFcShort( 0xfffffdd8 ), /* Offset= -
552 (348) */
/* 902 */

```

```

                                0x12, 0x10,    /*
FC_UP [pointer_deref] */
/* 904 */ NdrPcShort( 0x2 ), /* Offset= 2 (906) */
/* 906 */
                                0x12, 0x0,    /*
FC_UP */
/* 908 */ NdrPcShort( 0x16 ), /* Offset= 22 (930) */
/* 910 */
                                0x15,        /*
FC_STRUCT */
                                0x7,        /*
7 */
/* 912 */ NdrPcShort( 0x10 ), /* 16 */
/* 914 */ 0x6, /* FC_SHORT */
                                0x1,        /*
FC_BYTE */
/* 916 */ 0x1, /* FC_BYTE */
                                0x38,      /*
FC_ALIGNM4 */
/* 918 */ 0x8, /* FC_LONG */
                                0x39,      /*
FC_ALIGNM8 */
/* 920 */ 0xb, /* FC_HYPER */
                                0x5b,      /*
FC_END */
/* 922 */
                                0x12, 0x0,    /*
FC_UP */
/* 924 */ NdrPcShort( 0xffffffff2 ), /* Offset= -
14 (910) */
/* 926 */
                                0x12, 0x8,    /*
FC_UP [simple_pointer] */
/* 928 */ 0x2, /* FC_CHAR */
                                0x5c,      /*
FC_PAD */
/* 930 */
                                0x1a,        /*
FC_BOGUS_STRUCT */
                                0x7,        /*
7 */
/* 932 */ NdrPcShort( 0x20 ), /* 32 */
/* 934 */ NdrPcShort( 0x0 ), /* 0 */
/* 936 */ NdrPcShort( 0x0 ), /* Offset= 0 (936) */
/* 938 */ 0x8, /* FC_LONG */
                                0x8,        /*
FC_LONG */
/* 940 */ 0x6, /* FC_SHORT */
                                0x6,        /*
FC_SHORT */
/* 942 */ 0x6, /* FC_SHORT */
                                0x6,        /*
FC_SHORT */
/* 944 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
                                0x0,        /*
0 */
/* 946 */ NdrPcShort( 0xfffffc54 ), /* Offset= -
940 (6) */
/* 948 */ 0x5c, /* FC_PAD */
                                0x5b,      /*
FC_END */
/* 950 */ 0xb4, /* FC_USER_MARSHAL */

```

```

                                0x83,        /*
131 */
/* 952 */ NdrPcShort( 0x0 ), /* 0 */
/* 954 */ NdrPcShort( 0x18 ), /* 24 */
/* 956 */ NdrPcShort( 0x0 ), /* 0 */
/* 958 */ NdrPcShort( 0xfffffc44 ), /* Offset= -
956 (2) */
/* 960 */
                                0x11, 0x4,    /*
FC_RP [allocated_on_stack] */
/* 962 */ NdrPcShort( 0x6 ), /* Offset= 6 (968) */
/* 964 */
                                0x13, 0x0,    /*
FC_OP */
/* 966 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (930) */
/* 968 */ 0xb4, /* FC_USER_MARSHAL */
                                0x83,      /*
131 */
/* 970 */ NdrPcShort( 0x0 ), /* 0 */
/* 972 */ NdrPcShort( 0x18 ), /* 24 */
/* 974 */ NdrPcShort( 0x0 ), /* 0 */
/* 976 */ NdrPcShort( 0xfffffff4 ), /* Offset= -
12 (964) */
                                0x0
                                };
const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    ( CInterfaceProxyVtbl *) &ITPCCProxyVtbl,
    0
};
const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    ( CInterfaceStubVtbl *) &ITPCCStubVtbl,
    0
};
PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};
#define _tpcc_com_ps_CHECK_IID(n)
IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)
int _stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{
    if( !_tpcc_com_ps_CHECK_IID(0) )
    {
        *pIndex = 0;
        return 1;
    }
}

```

```

    }
    return 0;
}
const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,
    (PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
    (const PCInterfaceName *) &
_tpcc_com_ps_InterfaceNamesList,
    0, // no delegation
    &_tpcc_com_ps_IID_Lookup,
    1,
    2,
    0, /* table of [async_uuid] interfaces */
    0, /* Filler1 */
    0, /* Filler2 */
    0 /* Filler3 */
};
#endif /* defined(_M_IA64) || defined(_M_AXP64) */

```

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 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=12), Wl, Zp8, env=Win32 (32b run),
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_AXP64)
#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"
#ifdef __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 997
#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;

extern const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString;

/* Standard interface: __MIDL_itf_tpcc_com_ps_0000,
ver. 0.0,
GUID={0x00000000,0x0000,0x0000,{0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00}} */

/* Object interface: IUnknown, ver. 0.0,
GUID={0x00000000,0x0000,0x0000,{0xC0,0x00,0x00,0x00,0x00,0x00,0x00,0x46}} */

/* Object interface: ITPCC, ver. 0.0,
GUID={0xFEED6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0x4F,0xBF,0xE0,0x8B}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

#pragma code_seg(".orpc")

```

```

static const unsigned short
ITPCC_FormatStringOffsetTable =
{
    0,
    34,
    68,
    102,
    136,
    170
};

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo =
{
    &Object_StubDesc,
    __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 *)-1 /* ITPCC::NewOrder */,
    (void *)-1 /* ITPCC::Payment */,
    (void *)-1 /* ITPCC::Delivery */,
    (void *)-1 /* ITPCC::StockLevel */,
    (void *)-1 /* ITPCC::OrderStatus */,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

static const MIDL_STUB_DESC Object_StubDesc =
{

```

```

    0,
    NdrOleAllocate,
    NdrOleFree,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    __MIDL_TypeFormatString.Format,
    1, /* -error bounds_check flag */
    0x20000, /* Ndr library version */
    0,
    0x5030118, /* MIDL Version 5.3.280 */
    0,
    UserMarshalRoutines,
    0, /* notify & notify_flag routine table */
    0x1, /* MIDL flag */
    0, /* Reserved3 */
    0, /* Reserved4 */
    0 /* Reserved5 */
};

#pragma data_seg(".rdata")

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
{
    {
        VARIANT_UserSize,
        VARIANT_UserMarshal,
        VARIANT_UserUnmarshal,
        VARIANT_UserFree
    }
};

#ifdef __RPC_WIN32__
#error Invalid build platform for this stub.
#endif

#ifdef TARGET_IS_NT40_OR_LATER
#error You need a Windows NT 4.0 or later to run this
stub because it uses these features:
#error -Oif or -Oicf, [wire_marshal] or
[user_marshal] attribute.
#error However, your C/C++ compilation flags indicate
you intend to run this app on earlier systems.
#error This app will die there with the
RPC_X_WRONG_STUB_VERSION error.
#endif

static const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString =
{
    0,
    {
        /* Procedure NewOrder */

```

```

                                0x33,          /*
FC_AUTO_HANDLE */
                                0x6c,          /*
Old Flags:  object, Oi2 */
/* 2 */ NdrFcLong( 0x0 ), /* 0 */
/* 6 */ NdrFcShort( 0x3 ), /* 3 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 8 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 18 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 20 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 22 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)

```

```

/* 24 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
                                NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 26 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 28 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 30 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
                                NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 42 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif

```

```

                                NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 52 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 54 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 56 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 58 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
                                NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 60 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 62 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */

```



```

#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 64 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 76 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 86 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else

```

```

NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 88 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 90 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 92 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 94 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 96 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 98 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 110 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 120 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 122 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 124 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_

```

```

#if !defined(_MIPS_)
/* 126 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 128 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 130 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 132 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 144 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#endif

```

```

#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 154 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 156 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 158 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 160 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 162 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

```

```

/* 164 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 166 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
/* 178 */ NdrFcShort( 0x8 ), /* x86, MIPS, PPC Stack
size/offset = 8 */
#else
NdrFcShort( 0x10 ), /*
Alpha Stack size/offset = 16 */
#endif
/* 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, */
#ifndef _ALPHA_
/* 188 */ NdrFcShort( 0x4 ), /* x86, MIPS, PPC Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 190 */ 0x8, /* FC_LONG */
0x0, /*
0 */

0x0

};

```

```

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
    0,
    {
        0 /*
        /* 2 */
        FC_UP /*
        /* 4 */ NdrPcShort( 0x3b0 ), /* Offset=
        944 (948) */
        /* 6 */
        FC_NON_ENCAPSULATED_UNION /*
        /* 8 */ 0x7, /* Corr desc: FC_USHORT
        */
        /* 10 */ NdrPcShort( 0xffff8 ), /* -8 */
        /* 12 */ NdrPcShort( 0x2 ), /* Offset= 2 (14) */
        /* 14 */ NdrPcShort( 0x10 ), /* 16 */
        /* 16 */ NdrPcShort( 0x2b ), /* 43 */
        /* 18 */ NdrPcLong( 0x3 ), /* 3 */
        /* 22 */ NdrPcShort( 0x8008 ), /* Simple arm
        type: FC_LONG */
        /* 24 */ NdrPcLong( 0x11 ), /* 17 */
        /* 28 */ NdrPcShort( 0x8001 ), /* Simple arm
        type: FC_BYTE */
        /* 30 */ NdrPcLong( 0x2 ), /* 2 */
        /* 34 */ NdrPcShort( 0x8006 ), /* Simple arm
        type: FC_SHORT */
        /* 36 */ NdrPcLong( 0x4 ), /* 4 */
        /* 40 */ NdrPcShort( 0x800a ), /* Simple arm
        type: FC_FLOAT */
        /* 42 */ NdrPcLong( 0x5 ), /* 5 */
        /* 46 */ NdrPcShort( 0x800c ), /* Simple arm
        type: FC_DOUBLE */
        /* 48 */ NdrPcLong( 0xb ), /* 11 */
        /* 52 */ NdrPcShort( 0x8006 ), /* Simple arm
        type: FC_SHORT */
        /* 54 */ NdrPcLong( 0xa ), /* 10 */
        /* 58 */ NdrPcShort( 0x8008 ), /* Simple arm
        type: FC_LONG */
        /* 60 */ NdrPcLong( 0x6 ), /* 6 */
        /* 64 */ NdrPcShort( 0xd6 ), /* Offset= 214 (278) */
        /* 66 */ NdrPcLong( 0x7 ), /* 7 */
        /* 70 */ NdrPcShort( 0x800c ), /* Simple arm
        type: FC_DOUBLE */
        /* 72 */ NdrPcLong( 0x8 ), /* 8 */
        /* 76 */ NdrPcShort( 0xd0 ), /* Offset= 208 (284) */
        /* 78 */ NdrPcLong( 0xd ), /* 13 */
        /* 82 */ NdrPcShort( 0xe2 ), /* Offset= 226 (308) */
        /* 84 */ NdrPcLong( 0x9 ), /* 9 */
        /* 88 */ NdrPcShort( 0xee ), /* Offset= 238 (326) */
        /* 90 */ NdrPcLong( 0x2000 ), /* 8192 */
        /* 94 */ NdrPcShort( 0xfa ), /* Offset= 250 (344) */
        /* 96 */ NdrPcLong( 0x24 ), /* 36 */
        /* 100 */ NdrPcShort( 0x308 ), /* Offset=
        776 (876) */
        /* 102 */ NdrPcLong( 0x4024 ), /* 16420 */

```

```

/* 106 */ NdrPcShort( 0x302 ), /* Offset=
770 (876) */
/* 108 */ NdrPcLong( 0x4011 ), /* 16401 */
/* 112 */ NdrPcShort( 0x300 ), /* Offset=
768 (880) */
/* 114 */ NdrPcLong( 0x4002 ), /* 16386 */
/* 118 */ NdrPcShort( 0x2fe ), /* Offset=
766 (884) */
/* 120 */ NdrPcLong( 0x4003 ), /* 16387 */
/* 124 */ NdrPcShort( 0x2fc ), /* Offset=
764 (888) */
/* 126 */ NdrPcLong( 0x4004 ), /* 16388 */
/* 130 */ NdrPcShort( 0x2fa ), /* Offset=
762 (892) */
/* 132 */ NdrPcLong( 0x4005 ), /* 16389 */
/* 136 */ NdrPcShort( 0x2f8 ), /* Offset=
760 (896) */
/* 138 */ NdrPcLong( 0x400b ), /* 16395 */
/* 142 */ NdrPcShort( 0x2e6 ), /* Offset=
742 (884) */
/* 144 */ NdrPcLong( 0x400a ), /* 16394 */
/* 148 */ NdrPcShort( 0x2e4 ), /* Offset=
740 (888) */
/* 150 */ NdrPcLong( 0x4006 ), /* 16390 */
/* 154 */ NdrPcShort( 0x2ea ), /* Offset=
746 (900) */
/* 156 */ NdrPcLong( 0x4007 ), /* 16391 */
/* 160 */ NdrPcShort( 0x2e0 ), /* Offset=
736 (896) */
/* 162 */ NdrPcLong( 0x4008 ), /* 16392 */
/* 166 */ NdrPcShort( 0x2e2 ), /* Offset=
738 (904) */
/* 168 */ NdrPcLong( 0x400d ), /* 16397 */
/* 172 */ NdrPcShort( 0x2e0 ), /* Offset=
736 (908) */
/* 174 */ NdrPcLong( 0x4009 ), /* 16393 */
/* 178 */ NdrPcShort( 0x2de ), /* Offset=
734 (912) */
/* 180 */ NdrPcLong( 0x6000 ), /* 24576 */
/* 184 */ NdrPcShort( 0x2dc ), /* Offset=
732 (916) */
/* 186 */ NdrPcLong( 0x400c ), /* 16396 */
/* 190 */ NdrPcShort( 0x2da ), /* Offset=
730 (920) */
/* 192 */ NdrPcLong( 0x10 ), /* 16 */
/* 196 */ NdrPcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 198 */ NdrPcLong( 0x12 ), /* 18 */
/* 202 */ NdrPcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 204 */ NdrPcLong( 0x13 ), /* 19 */
/* 208 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 210 */ NdrPcLong( 0x16 ), /* 22 */
/* 214 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 216 */ NdrPcLong( 0x17 ), /* 23 */
/* 220 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 222 */ NdrPcLong( 0xe ), /* 14 */
/* 226 */ NdrPcShort( 0x2be ), /* Offset=
702 (928) */
/* 228 */ NdrPcLong( 0x400e ), /* 16398 */

```

```

/* 232 */ NdrPcShort( 0x2c4 ), /* Offset=
708 (940) */
/* 234 */ NdrPcLong( 0x4010 ), /* 16400 */
/* 238 */ NdrPcShort( 0x2c2 ), /* Offset=
706 (944) */
/* 240 */ NdrPcLong( 0x4012 ), /* 16402 */
/* 244 */ NdrPcShort( 0x280 ), /* Offset=
640 (884) */
/* 246 */ NdrPcLong( 0x4013 ), /* 16403 */
/* 250 */ NdrPcShort( 0x27e ), /* Offset=
638 (888) */
/* 252 */ NdrPcLong( 0x4016 ), /* 16406 */
/* 256 */ NdrPcShort( 0x278 ), /* Offset=
632 (888) */
/* 258 */ NdrPcLong( 0x4017 ), /* 16407 */
/* 262 */ NdrPcShort( 0x272 ), /* Offset=
626 (888) */
/* 264 */ NdrPcLong( 0x0 ), /* 0 */
/* 268 */ NdrPcShort( 0x0 ), /* Offset= 0 (268) */
/* 270 */ NdrPcLong( 0x1 ), /* 1 */
/* 274 */ NdrPcShort( 0x0 ), /* Offset= 0 (274) */
/* 276 */ NdrPcShort( 0xffffffff ), /* Offset= -1
(275) */
/* 278 */
FC_STRUCT /*
/* 280 */ NdrPcShort( 0x8 ), /* 8 */
/* 282 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 284 */
0x12, 0x0, /*
FC_UP */
/* 286 */ NdrPcShort( 0xc ), /* Offset= 12 (298) */
/* 288 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 290 */ NdrPcShort( 0x2 ), /* 2 */
/* 292 */ 0x9, /* Corr desc: FC_ULONG
*/
0x0, /*
*/
/* 294 */ NdrPcShort( 0xfffc ), /* -4 */
/* 296 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 298 */
0x17, /*
FC_CSTRUCT */
0x3, /*
3 */
/* 300 */ NdrPcShort( 0x8 ), /* 8 */
/* 302 */ NdrPcShort( 0xffffffff2 ), /* Offset= -
14 (288) */
/* 304 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 306 */ 0x5c, /* FC_PAD */

```

```

0x5b, /*
FC_END */
/* 308 */
0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 310 */ NdrFcLong( 0x0 ), /* 0 */
/* 314 */ NdrFcShort( 0x0 ), /* 0 */
/* 316 */ NdrFcShort( 0x0 ), /* 0 */
/* 318 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 320 */ 0x0, /* 0 */
0x0, /*
0 */
/* 322 */ 0x0, /* 0 */
0x0, /*
0 */
/* 324 */ 0x0, /* 0 */
0x46, /*
70 */
/* 326 */
0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 328 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 332 */ NdrFcShort( 0x0 ), /* 0 */
/* 334 */ NdrFcShort( 0x0 ), /* 0 */
/* 336 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 338 */ 0x0, /* 0 */
0x0, /*
0 */
/* 340 */ 0x0, /* 0 */
0x0, /*
0 */
/* 342 */ 0x0, /* 0 */
0x46, /*
70 */
/* 344 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 346 */ NdrFcShort( 0x2 ), /* Offset= 2 (348) */
/* 348 */
0x12, 0x0, /*
FC_UP */
/* 350 */ NdrFcShort( 0x1fc ), /* Offset=
508 (858) */
/* 352 */
0x2a, /*
FC_ENCAPSULATED_UNION */
0x49, /*
73 */
/* 354 */ NdrFcShort( 0x18 ), /* 24 */
/* 356 */ NdrFcShort( 0xa ), /* 10 */
/* 358 */ NdrFcLong( 0x8 ), /* 8 */
/* 362 */ NdrFcShort( 0x58 ), /* Offset= 88 (450) */
/* 364 */ NdrFcLong( 0xd ), /* 13 */
/* 368 */ NdrFcShort( 0x78 ), /* Offset= 120 (488) */
/* 370 */ NdrFcLong( 0x9 ), /* 9 */

```

```

/* 374 */ NdrFcShort( 0x94 ), /* Offset= 148 (522) */
/* 376 */ NdrFcLong( 0xc ), /* 12 */
/* 380 */ NdrFcShort( 0xbc ), /* Offset= 188 (568) */
/* 382 */ NdrFcLong( 0x24 ), /* 36 */
/* 386 */ NdrFcShort( 0x114 ), /* Offset=
276 (662) */
/* 388 */ NdrFcLong( 0x800d ), /* 32781 */
/* 392 */ NdrFcShort( 0x130 ), /* Offset=
304 (696) */
/* 394 */ NdrFcLong( 0x10 ), /* 16 */
/* 398 */ NdrFcShort( 0x148 ), /* Offset=
328 (726) */
/* 400 */ NdrFcLong( 0x2 ), /* 2 */
/* 404 */ NdrFcShort( 0x160 ), /* Offset=
352 (756) */
/* 406 */ NdrFcLong( 0x3 ), /* 3 */
/* 410 */ NdrFcShort( 0x178 ), /* Offset=
376 (786) */
/* 412 */ NdrFcLong( 0x14 ), /* 20 */
/* 416 */ NdrFcShort( 0x190 ), /* Offset=
400 (816) */
/* 418 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(417) */
/* 420 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 422 */ NdrFcShort( 0x4 ), /* 4 */
/* 424 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 426 */ NdrFcShort( 0x0 ), /* 0 */
/* 428 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 430 */
0x48, /*
FC_VARIABLE_REPEAT */
0x49, /*
FC_FIXED_OFFSET */
/* 432 */ NdrFcShort( 0x4 ), /* 4 */
/* 434 */ NdrFcShort( 0x0 ), /* 0 */
/* 436 */ NdrFcShort( 0x1 ), /* 1 */
/* 438 */ NdrFcShort( 0x0 ), /* 0 */
/* 440 */ NdrFcShort( 0x0 ), /* 0 */
/* 442 */ 0x12, 0x0, /* FC_UP */
/* 444 */ NdrFcShort( 0xffffffff6e ), /* Offset= -
146 (298) */
/* 446 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 448 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 450 */

```

```

0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 452 */ NdrFcShort( 0x8 ), /* 8 */
/* 454 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 456 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 458 */ NdrFcShort( 0x4 ), /* 4 */
/* 460 */ NdrFcShort( 0x4 ), /* 4 */
/* 462 */ 0x11, 0x0, /* FC_RP */
/* 464 */ NdrFcShort( 0xffffffffd4 ), /* Offset= -
44 (420) */
/* 466 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 468 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 470 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 472 */ NdrFcShort( 0x0 ), /* 0 */
/* 474 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 476 */ NdrFcShort( 0x0 ), /* 0 */
/* 478 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 482 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 484 */ NdrFcShort( 0xffffffff50 ), /* Offset= -
176 (308) */
/* 486 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 488 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 490 */ NdrFcShort( 0x8 ), /* 8 */
/* 492 */ NdrFcShort( 0x0 ), /* 0 */
/* 494 */ NdrFcShort( 0x6 ), /* Offset= 6 (500) */
/* 496 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 498 */ 0x5c, /* FC_PAD */

```

```

                                0x5b,          /*
FC_END */
/* 500 */
                                0x11, 0x0,      /*
FC_RP */
/* 502 */ NdrFcShort( 0xffffffff ), /* Offset= -
32 (470) */
/* 504 */
                                0x21,          /*
FC_BOGUS_ARRAY */
3 */
/* 506 */ NdrFcShort( 0x0 ), /* 0 */
/* 508 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 510 */ NdrFcShort( 0x0 ), /* 0 */
/* 512 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
                                0x0,          /*
0 */
/* 518 */ NdrFcShort( 0xffffffff40 ), /* Offset= -
192 (326) */
/* 520 */ 0x5c, /* FC_PAD */
                                0x5b,          /*
FC_END */
/* 522 */
                                0x1a,          /*
FC_BOGUS_STRUCT */
3 */
/* 524 */ NdrFcShort( 0x8 ), /* 8 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
                                0x36,          /*
FC_POINTER */
/* 532 */ 0x5c, /* FC_PAD */
                                0x5b,          /*
FC_END */
/* 534 */
                                0x11, 0x0,      /*
FC_RP */
/* 536 */ NdrFcShort( 0xffffffffe0 ), /* Offset= -
32 (504) */
/* 538 */
                                0x1b,          /*
FC_CARRAY */
3 */
/* 540 */ NdrFcShort( 0x4 ), /* 4 */
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 544 */ NdrFcShort( 0x0 ), /* 0 */
/* 546 */
                                0x4b,          /*
FC_PP */
                                0x5c,          /*
FC_PAD */

```

```

/* 548 */
FC_VARIABLE_REPEAT */
                                0x48,          /*
                                0x49,          /*
FC_FIXED_OFFSET */
/* 550 */ NdrFcShort( 0x4 ), /* 4 */
/* 552 */ NdrFcShort( 0x0 ), /* 0 */
/* 554 */ NdrFcShort( 0x1 ), /* 1 */
/* 556 */ NdrFcShort( 0x0 ), /* 0 */
/* 558 */ NdrFcShort( 0x0 ), /* 0 */
/* 560 */ 0x12, 0x0, /* FC_UP */
/* 562 */ NdrFcShort( 0x182 ), /* Offset=
386 (948) */
/* 564 */
                                0x5b,          /*
FC_END */
                                0x8,          /*
FC_LONG */
/* 566 */ 0x5c, /* FC_PAD */
                                0x5b,          /*
FC_END */
/* 568 */
                                0x1a,          /*
FC_BOGUS_STRUCT */
3 */
/* 570 */ NdrFcShort( 0x8 ), /* 8 */
/* 572 */ NdrFcShort( 0x0 ), /* 0 */
/* 574 */ NdrFcShort( 0x6 ), /* Offset= 6 (580) */
/* 576 */ 0x8, /* FC_LONG */
                                0x36,          /*
FC_POINTER */
/* 578 */ 0x5c, /* FC_PAD */
                                0x5b,          /*
FC_END */
/* 580 */
                                0x11, 0x0,      /*
FC_RP */
/* 582 */ NdrFcShort( 0xffffffffd4 ), /* Offset= -
44 (538) */
/* 584 */
                                0x2f,          /*
FC_IP */
                                0x5a,          /*
FC_CONSTANT_IID */
/* 586 */ NdrFcLong( 0x2f ), /* 47 */
/* 590 */ NdrFcShort( 0x0 ), /* 0 */
/* 592 */ NdrFcShort( 0x0 ), /* 0 */
/* 594 */ 0xc0, /* 192 */
                                0x0,          /*
0 */
/* 596 */ 0x0, /* 0 */
                                0x0,          /*
0 */
/* 598 */ 0x0, /* 0 */
                                0x0,          /*
0 */
/* 600 */ 0x0, /* 0 */
                                0x46,          /*
70 */
/* 602 */

```

```

                                0x1b,          /*
FC_CARRAY */
                                0x0,          /*
0 */
/* 604 */ NdrFcShort( 0x1 ), /* 1 */
/* 606 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 608 */ NdrFcShort( 0x4 ), /* 4 */
/* 610 */ 0x1, /* FC_BYTE */
                                0x5b,          /*
FC_END */
/* 612 */
                                0x1a,          /*
FC_BOGUS_STRUCT */
3 */
/* 614 */ NdrFcShort( 0x10 ), /* 16 */
/* 616 */ NdrFcShort( 0x0 ), /* 0 */
/* 618 */ NdrFcShort( 0xa ), /* Offset= 10 (628) */
/* 620 */ 0x8, /* FC_LONG */
                                0x8,          /*
FC_LONG */
/* 622 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
                                0x0,          /*
0 */
/* 624 */ NdrFcShort( 0xffffffffd8 ), /* Offset= -
40 (584) */
/* 626 */ 0x36, /* FC_POINTER */
                                0x5b,          /*
FC_END */
/* 628 */
                                0x12, 0x0,      /*
FC_UP */
/* 630 */ NdrFcShort( 0xffffffffe4 ), /* Offset= -
28 (602) */
/* 632 */
                                0x1b,          /*
FC_CARRAY */
3 */
/* 634 */ NdrFcShort( 0x4 ), /* 4 */
/* 636 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 638 */ NdrFcShort( 0x0 ), /* 0 */
/* 640 */
                                0x4b,          /*
FC_PP */
                                0x5c,          /*
FC_PAD */
/* 642 */
                                0x48,          /*
FC_VARIABLE_REPEAT */
                                0x49,          /*
FC_FIXED_OFFSET */
/* 644 */ NdrFcShort( 0x4 ), /* 4 */
/* 646 */ NdrFcShort( 0x0 ), /* 0 */
/* 648 */ NdrFcShort( 0x1 ), /* 1 */
/* 650 */ NdrFcShort( 0x0 ), /* 0 */

```

```

/* 652 */ NdrFcShort( 0x0 ), /* 0 */
/* 654 */ 0x12, 0x0, /* FC_UP */
/* 656 */ NdrFcShort( 0xffffffffd4 ), /* Offset= -
44 (612) */
/* 658 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 660 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 662 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 664 */ NdrFcShort( 0x8 ), /* 8 */
/* 666 */ NdrFcShort( 0x0 ), /* 0 */
/* 668 */ NdrFcShort( 0x6 ), /* Offset= 6 (674) */
/* 670 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 672 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 674 */
0x11, 0x0, /*
FC_RP */
/* 676 */ NdrFcShort( 0xffffffffd4 ), /* Offset= -
44 (632) */
/* 678 */
0x1d, /*
FC_SMPARRAY */
0x0, /*
0 */
/* 680 */ NdrFcShort( 0x8 ), /* 8 */
/* 682 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 684 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 686 */ NdrFcShort( 0x10 ), /* 16 */
/* 688 */ 0x8, /* FC_LONG */
0x6, /*
FC_SHORT */
/* 690 */ 0x6, /* FC_SHORT */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 692 */ 0x0, /* 0 */
NdrFcShort( 0xfffffffff1
), /* Offset= -15 (678) */
0x5b, /*
FC_END */
/* 696 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */

```

```

/* 698 */ NdrFcShort( 0x18 ), /* 24 */
/* 700 */ NdrFcShort( 0x0 ), /* 0 */
/* 702 */ NdrFcShort( 0xa ), /* Offset= 10 (712) */
/* 704 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 706 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
0x0, /*
0 */
/* 708 */ NdrFcShort( 0xffffffffe8 ), /* Offset= -
24 (684) */
/* 710 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 712 */
0x11, 0x0, /*
FC_RP */
/* 714 */ NdrFcShort( 0xffffffff0c ), /* Offset= -
244 (470) */
/* 716 */
0x1b, /*
FC_CARRAY */
0x0, /*
0 */
/* 718 */ NdrFcShort( 0x1 ), /* 1 */
/* 720 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 722 */ NdrFcShort( 0x0 ), /* 0 */
/* 724 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 726 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 728 */ NdrFcShort( 0x8 ), /* 8 */
/* 730 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 732 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 734 */ NdrFcShort( 0x4 ), /* 4 */
/* 736 */ NdrFcShort( 0x4 ), /* 4 */
/* 738 */ 0x12, 0x0, /* FC_UP */
/* 740 */ NdrFcShort( 0xffffffffe8 ), /* Offset= -
24 (716) */
/* 742 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 744 */ 0x8, /* FC_LONG */

```

```

0x5b, /*
FC_END */
/* 746 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 748 */ NdrFcShort( 0x2 ), /* 2 */
/* 750 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 752 */ NdrFcShort( 0x0 ), /* 0 */
/* 754 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 756 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 758 */ NdrFcShort( 0x8 ), /* 8 */
/* 760 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 762 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 764 */ NdrFcShort( 0x4 ), /* 4 */
/* 766 */ NdrFcShort( 0x4 ), /* 4 */
/* 768 */ 0x12, 0x0, /* FC_UP */
/* 770 */ NdrFcShort( 0xffffffffe8 ), /* Offset= -
24 (746) */
/* 772 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 774 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 776 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 778 */ NdrFcShort( 0x4 ), /* 4 */
/* 780 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 782 */ NdrFcShort( 0x0 ), /* 0 */
/* 784 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 786 */
0x16, /*
FC_PSTRUCT */

```

```

3 */
/* 788 */ NdrFcShort( 0x8 ), /* 8 */
/* 790 */
FC_PP */
/* 792 */
FC_PAD */
/* 792 */
FC_NO_REPEAT */
FC_PAD */
/* 794 */ NdrFcShort( 0x4 ), /* 4 */
/* 796 */ NdrFcShort( 0x4 ), /* 4 */
/* 798 */ 0x12, 0x0, /* FC_UP */
/* 800 */ NdrFcShort( 0xfffffe8 ), /* Offset= -
24 (776) */
/* 802 */
FC_END */
FC_LONG */
/* 804 */ 0x8, /* FC_LONG */
FC_END */
/* 806 */
FC_CARRAY */
7 */
/* 808 */ NdrFcShort( 0x8 ), /* 8 */
/* 810 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
/* 812 */ NdrFcShort( 0x0 ), /* 0 */
/* 814 */ 0xb, /* FC_HYPER */
FC_END */
/* 816 */
FC_PSTRUCT */
3 */
/* 818 */ NdrFcShort( 0x8 ), /* 8 */
/* 820 */
FC_PP */
FC_PAD */
/* 822 */
FC_NO_REPEAT */
FC_PAD */
/* 824 */ NdrFcShort( 0x4 ), /* 4 */
/* 826 */ NdrFcShort( 0x4 ), /* 4 */
/* 828 */ 0x12, 0x0, /* FC_UP */
/* 830 */ NdrFcShort( 0xfffffe8 ), /* Offset= -
24 (806) */
/* 832 */

```

```

FC_END */
FC_LONG */
/* 834 */ 0x8, /* FC_LONG */
FC_END */
/* 836 */
FC_STRUCT */
3 */
/* 838 */ NdrFcShort( 0x8 ), /* 8 */
/* 840 */ 0x8, /* FC_LONG */
FC_LONG */
/* 842 */ 0x5c, /* FC_PAD */
FC_END */
/* 844 */
FC_CARRAY */
3 */
/* 846 */ NdrFcShort( 0x8 ), /* 8 */
/* 848 */ 0x7, /* Corr desc: FC_USHORT
*/
/* 850 */ NdrFcShort( 0xffd8 ), /* -40 */
/* 852 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0 */
/* 854 */ NdrFcShort( 0xfffffee ), /* Offset= -
18 (836) */
/* 856 */ 0x5c, /* FC_PAD */
FC_END */
/* 858 */
FC_BOGUS_STRUCT */
3 */
/* 860 */ NdrFcShort( 0x28 ), /* 40 */
/* 862 */ NdrFcShort( 0xfffffee ), /* Offset= -
18 (844) */
/* 864 */ NdrFcShort( 0x0 ), /* Offset= 0 (864) */
/* 866 */ 0x6, /* FC_SHORT */
FC_SHORT */
/* 868 */ 0x38, /* FC_ALIGNM4 */
FC_LONG */
/* 870 */ 0x8, /* FC_LONG */
FC_EMBEDDED_COMPLEX */
/* 872 */ 0x0, /* 0 */
), /* Offset= -521 (352) */
FC_END */

```

```

/* 876 */
FC_UP */
/* 878 */ NdrFcShort( 0xfffffef6 ), /* Offset= -
266 (612) */
/* 880 */
FC_UP [simple_pointer] */
/* 882 */ 0x1, /* FC_BYTE */
FC_PAD */
/* 884 */
FC_UP [simple_pointer] */
/* 886 */ 0x6, /* FC_SHORT */
FC_PAD */
/* 888 */
FC_UP [simple_pointer] */
/* 890 */ 0x8, /* FC_LONG */
FC_PAD */
/* 892 */
FC_UP [simple_pointer] */
/* 894 */ 0xa, /* FC_FLOAT */
FC_PAD */
/* 896 */
FC_UP [simple_pointer] */
/* 898 */ 0xc, /* FC_DOUBLE */
FC_PAD */
/* 900 */
FC_UP */
/* 902 */ NdrFcShort( 0xfffffd90 ), /* Offset= -
624 (278) */
/* 904 */
FC_UP [pointer_deref] */
/* 906 */ NdrFcShort( 0xfffffd92 ), /* Offset= -
622 (284) */
/* 908 */
FC_UP [pointer_deref] */
/* 910 */ NdrFcShort( 0xfffffda6 ), /* Offset= -
602 (308) */
/* 912 */
FC_UP [pointer_deref] */
/* 914 */ NdrFcShort( 0xfffffdb4 ), /* Offset= -
588 (326) */
/* 916 */
FC_UP [pointer_deref] */
/* 918 */ NdrFcShort( 0xfffffdc2 ), /* Offset= -
574 (344) */
/* 920 */
FC_UP [pointer_deref] */

```

```

/* 922 */ NdrFcShort( 0x2 ), /* Offset= 2 (924) */
/* 924 */
                                0x12, 0x0, /*
FC_UP */
/* 926 */ NdrFcShort( 0x16 ), /* Offset= 22 (948) */
/* 928 */
                                0x15, /*
FC_STRUCT */
                                0x7, /*
7 */
/* 930 */ NdrFcShort( 0x10 ), /* 16 */
/* 932 */ 0x6, /* FC_SHORT */
                                0x1, /*
FC_BYTE */
/* 934 */ 0x1, /* FC_BYTE */
                                0x38, /*
FC_ALIGNM4 */
/* 936 */ 0x8, /* FC_LONG */
                                0x39, /*
FC_ALIGNM8 */
/* 938 */ 0xb, /* FC_HYPER */
                                0x5b, /*
FC_END */
/* 940 */
                                0x12, 0x0, /*
FC_UP */
/* 942 */ NdrFcShort( 0xffffffff2 ), /* Offset= -
14 (928) */
/* 944 */
                                0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 946 */ 0x2, /* FC_CHAR */
                                0x5c, /*
FC_PAD */
/* 948 */
                                0x1a, /*
FC_BOGUS_STRUCT */
                                0x7, /*
7 */
/* 950 */ NdrFcShort( 0x20 ), /* 32 */
/* 952 */ NdrFcShort( 0x0 ), /* 0 */
/* 954 */ NdrFcShort( 0x0 ), /* Offset= 0 (954) */
/* 956 */ 0x8, /* FC_LONG */
                                0x8, /*
FC_LONG */
/* 958 */ 0x6, /* FC_SHORT */
                                0x6, /*
FC_SHORT */
/* 960 */ 0x6, /* FC_SHORT */
                                0x6, /*
FC_SHORT */
/* 962 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
                                0x0, /*
0 */
/* 964 */ NdrFcShort( 0xfffffc42 ), /* Offset= -
958 (6) */
/* 966 */ 0x5c, /* FC_PAD */
                                0x5b, /*
FC_END */
/* 968 */ 0xb4, /* FC_USER_MARSHAL */
                                0x83, /*
131 */

```

```

/* 970 */ NdrFcShort( 0x0 ), /* 0 */
/* 972 */ NdrFcShort( 0x10 ), /* 16 */
/* 974 */ NdrFcShort( 0x0 ), /* 0 */
/* 976 */ NdrFcShort( 0xfffffc32 ), /* Offset= -
974 (2) */
/* 978 */
                                0x11, 0x4, /*
FC_RP [allocated_on_stack] */
/* 980 */ NdrFcShort( 0x6 ), /* Offset= 6 (986) */
/* 982 */
                                0x13, 0x0, /*
FC_OP */
/* 984 */ NdrFcShort( 0xfffff4dc ), /* Offset= -
36 (948) */
/* 986 */ 0xb4, /* FC_USER_MARSHAL */
                                0x83, /*
131 */
/* 988 */ NdrFcShort( 0x0 ), /* 0 */
/* 990 */ NdrFcShort( 0x10 ), /* 16 */
/* 992 */ NdrFcShort( 0x0 ), /* 0 */
/* 994 */ NdrFcShort( 0xfffff4f4 ), /* Offset= -
12 (982) */
                                0x0
    };
const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    ( CInterfaceProxyVtbl * ) &ITPCCProxyVtbl,
    0
};
const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    ( CInterfaceStubVtbl * ) &ITPCCStubVtbl,
    0
};
PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};
#define _tpcc_com_ps_CHECK_IID(n)
IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)
int __stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{
    if( !_tpcc_com_ps_CHECK_IID(0) )
    {
        *pIndex = 0;
        return 1;
    }
}

```

```

return 0;
}
const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,
    (PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
    (Const PCInterfaceName *) &
_tpcc_com_ps_InterfaceNamesList,
    0, // no delegation
    &_tpcc_com_ps_IID_Lookup,
    1,
    2,
    0, /* table of [async_uuid] interfaces */
    0, /* Filler1 */
    0, /* Filler2 */
    0, /* Filler3 */
};
#endif /* !defined(_M_IA64) && !defined(_M_AXP64) */
#pragma warning( disable: 4049 ) /* more than 64k
source lines */
/* this ALWAYS GENERATED file contains the proxy stub
code */
/* File created by MIDL compiler version 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run,appending), 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_HEADER( )
#if defined(_M_IA64) || defined(_M_AXP64)
#define USE_STUBLESS_PROXY
/* verify that the <rpcproxy.h> version is high
enough to compile this file*/
#ifndef __REQD_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 979
#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;

extern const MIDL_TYPE_FORMAT_STRING
_MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
_MIDL_ProcFormatString;

/* 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}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
{
    0,
    44,
    88,
    132,

```

```

    176,
    220
};

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    _MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    _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 *)-1 /* ITPCC::NewOrder */ ,
    (void *)-1 /* ITPCC::Payment */ ,
    (void *)-1 /* ITPCC::Delivery */ ,
    (void *)-1 /* ITPCC::StockLevel */ ,
    (void *)-1 /* ITPCC::OrderStatus */ ,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

static const MIDL_STUB_DESC Object_StubDesc =
{
    0,
    NdrOleAllocate,
    NdrOleFree,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    0
};

```

```

    0,
    _MIDL_TypeFormatString.Format,
    1, /* -error bounds_check flag */
    0x50002, /* Ndr library version */
    0,
    0x5030118, /* MIDL Version 5.3.280 */
    0,
    UserMarshalRoutines,
    0, /* notify & notify_flag routine table */
    0x1, /* MIDL flag */
    0, /* Reserved3 */
    0, /* Reserved4 */
    0 /* Reserved5 */
};

#pragma data_seg(".rdata")

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
{
    {
        VARIANT_UserSize
        ,VARIANT_UserMarshal
        ,VARIANT_UserUnmarshal
        ,VARIANT_UserFree
    }
};

#if !defined(_RPC_WIN64_)
#error Invalid build platform for this stub.
#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 */
#ifdef _ALPHA_
        /* 8 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
        NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
        /* 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, */
#ifdef ALPHA
/* 28 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
                                NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 30 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 32 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 34 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
                                NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 36 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 38 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 40 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
                                NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifdef ALPHA
/* 52 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else

```

```

                                NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 72 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
                                NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 74 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 76 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 78 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
                                NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 80 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 82 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 84 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
                                NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifdef ALPHA
/* 96 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
                                NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 116 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
                                NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 118 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 120 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 122 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
                                NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 124 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 126 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA

```

```

/* 128 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
    NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 130 */ 0x8, /* FC_LONG */
0 *, /*
/* Procedure StockLevel */
/* 132 */ 0x33, /* FC_AUTO_HANDLE */
0x6c, /*
Old Flags: object, Oi2 */
/* 134 */ NdrFcLong( 0x0 ), /* 0 */
/* 138 */ NdrFcShort( 0x6 ), /* 6 */
#ifdef ALPHA
/* 140 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
    NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 160 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
    NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 162 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */
/* Parameter txn_out */
/* 164 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 166 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else

```

```

NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 168 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */
/* Return value */
/* 170 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 172 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
    NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 174 */ 0x8, /* FC_LONG */
0 *, /*
/* Procedure OrderStatus */
/* 176 */ 0x33, /* FC_AUTO_HANDLE */
0x6c, /*
Old Flags: object, Oi2 */
/* 178 */ NdrFcLong( 0x0 ), /* 0 */
/* 182 */ NdrFcShort( 0x7 ), /* 7 */
#ifdef ALPHA
/* 184 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
    NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 204 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
    NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 206 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

```

```

/* Parameter txn_out */
/* 208 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 210 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
    NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 212 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */
/* Return value */
/* 214 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 216 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
    NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 218 */ 0x8, /* FC_LONG */
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, axp64 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 */
/* 246 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
/* 248 */ NdrFcShort( 0x8 ), /* ia64, axp64 Stack
size/offset = 8 */
/* 250 */ 0x8, /* FC_LONG */
0 *, /*
0 */

```

```

    }
    };
static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
    0,
    {
        NdrPcShort( 0x0 ), /*
/* 2 */
        0x12, 0x0, /*
FC_UP */
/* 4 */ NdrPcShort( 0x39e ), /* Offset=
926 (930) */
/* 6 */
        0x2b, /*
FC_NON_ENCAPSULATED_UNION */
        0x9, /*
FC_ULONG */
/* 8 */ 0x7, /* Corr desc: FC_USHORT
*/
        0x0, /*
/* 10 */ NdrPcShort( 0xffff8 ), /* -8 */
/* 12 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 14 */ NdrPcShort( 0x2 ), /* Offset= 2 (16) */
/* 16 */ NdrPcShort( 0x10 ), /* 16 */
/* 18 */ NdrPcShort( 0x2b ), /* 43 */
/* 20 */ NdrPcLong( 0x3 ), /* 3 */
/* 24 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 26 */ NdrPcLong( 0x11 ), /* 17 */
/* 30 */ NdrPcShort( 0x8001 ), /* Simple arm
type: FC_BYTE */
/* 32 */ NdrPcLong( 0x2 ), /* 2 */
/* 36 */ NdrPcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 38 */ NdrPcLong( 0x4 ), /* 4 */
/* 42 */ NdrPcShort( 0x800a ), /* Simple arm
type: FC_FLOAT */
/* 44 */ NdrPcLong( 0x5 ), /* 5 */
/* 48 */ NdrPcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 50 */ NdrPcLong( 0xb ), /* 11 */
/* 54 */ NdrPcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 56 */ NdrPcLong( 0xa ), /* 10 */
/* 60 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 62 */ NdrPcLong( 0x6 ), /* 6 */
/* 66 */ NdrPcShort( 0xd6 ), /* Offset= 214 (280) */
/* 68 */ NdrPcLong( 0x7 ), /* 7 */
/* 72 */ NdrPcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 74 */ NdrPcLong( 0x8 ), /* 8 */
/* 78 */ NdrPcShort( 0xd0 ), /* Offset= 208 (286) */
/* 80 */ NdrPcLong( 0xd ), /* 13 */
/* 84 */ NdrPcShort( 0xe4 ), /* Offset= 228 (312) */
/* 86 */ NdrPcLong( 0x9 ), /* 9 */

```

```

/* 90 */ NdrPcShort( 0xf0 ), /* Offset= 240 (330) */
/* 92 */ NdrPcLong( 0x2000 ), /* 8192 */
/* 96 */ NdrPcShort( 0xfc ), /* Offset= 252 (348) */
/* 98 */ NdrPcLong( 0x24 ), /* 36 */
/* 102 */ NdrPcShort( 0x2f4 ), /* Offset=
756 (858) */
/* 104 */ NdrPcLong( 0x4024 ), /* 16420 */
/* 108 */ NdrPcShort( 0x2ee ), /* Offset=
750 (858) */
/* 110 */ NdrPcLong( 0x4011 ), /* 16401 */
/* 114 */ NdrPcShort( 0x2ec ), /* Offset=
748 (862) */
/* 116 */ NdrPcLong( 0x4002 ), /* 16386 */
/* 120 */ NdrPcShort( 0x2ea ), /* Offset=
746 (866) */
/* 122 */ NdrPcLong( 0x4003 ), /* 16387 */
/* 126 */ NdrPcShort( 0x2e8 ), /* Offset=
744 (870) */
/* 128 */ NdrPcLong( 0x4004 ), /* 16388 */
/* 132 */ NdrPcShort( 0x2e6 ), /* Offset=
742 (874) */
/* 134 */ NdrPcLong( 0x4005 ), /* 16389 */
/* 138 */ NdrPcShort( 0x2e4 ), /* Offset=
740 (878) */
/* 140 */ NdrPcLong( 0x400b ), /* 16395 */
/* 144 */ NdrPcShort( 0x2d2 ), /* Offset=
722 (866) */
/* 146 */ NdrPcLong( 0x400a ), /* 16394 */
/* 150 */ NdrPcShort( 0x2d0 ), /* Offset=
720 (870) */
/* 152 */ NdrPcLong( 0x4006 ), /* 16390 */
/* 156 */ NdrPcShort( 0x2d6 ), /* Offset=
726 (882) */
/* 158 */ NdrPcLong( 0x4007 ), /* 16391 */
/* 162 */ NdrPcShort( 0x2cc ), /* Offset=
716 (878) */
/* 164 */ NdrPcLong( 0x4008 ), /* 16392 */
/* 168 */ NdrPcShort( 0x2ce ), /* Offset=
718 (886) */
/* 170 */ NdrPcLong( 0x400d ), /* 16397 */
/* 174 */ NdrPcShort( 0x2cc ), /* Offset=
716 (890) */
/* 176 */ NdrPcLong( 0x4009 ), /* 16393 */
/* 180 */ NdrPcShort( 0x2ca ), /* Offset=
714 (894) */
/* 182 */ NdrPcLong( 0x6000 ), /* 24576 */
/* 186 */ NdrPcShort( 0x2c8 ), /* Offset=
712 (898) */
/* 188 */ NdrPcLong( 0x400c ), /* 16396 */
/* 192 */ NdrPcShort( 0x2c6 ), /* Offset=
710 (902) */
/* 194 */ NdrPcLong( 0x10 ), /* 16 */
/* 198 */ NdrPcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 200 */ NdrPcLong( 0x12 ), /* 18 */
/* 204 */ NdrPcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 206 */ NdrPcLong( 0x13 ), /* 19 */
/* 210 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 212 */ NdrPcLong( 0x16 ), /* 22 */
/* 216 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */

```

```

/* 218 */ NdrPcLong( 0x17 ), /* 23 */
/* 222 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 224 */ NdrPcLong( 0xe ), /* 14 */
/* 228 */ NdrPcShort( 0x2aa ), /* Offset=
682 (910) */
/* 230 */ NdrPcLong( 0x400e ), /* 16398 */
/* 234 */ NdrPcShort( 0x2b0 ), /* Offset=
688 (922) */
/* 236 */ NdrPcLong( 0x4010 ), /* 16400 */
/* 240 */ NdrPcShort( 0x2ae ), /* Offset=
686 (926) */
/* 242 */ NdrPcLong( 0x4012 ), /* 16402 */
/* 246 */ NdrPcShort( 0x26c ), /* Offset=
620 (866) */
/* 248 */ NdrPcLong( 0x4013 ), /* 16403 */
/* 252 */ NdrPcShort( 0x26a ), /* Offset=
618 (870) */
/* 254 */ NdrPcLong( 0x4016 ), /* 16406 */
/* 258 */ NdrPcShort( 0x264 ), /* Offset=
612 (870) */
/* 260 */ NdrPcLong( 0x4017 ), /* 16407 */
/* 264 */ NdrPcShort( 0x25e ), /* Offset=
606 (870) */
/* 266 */ NdrPcLong( 0x0 ), /* 0 */
/* 270 */ NdrPcShort( 0x0 ), /* Offset= 0 (270) */
/* 272 */ NdrPcLong( 0x1 ), /* 1 */
/* 276 */ NdrPcShort( 0x0 ), /* Offset= 0 (276) */
/* 278 */ NdrPcShort( 0xffffffff ), /* Offset= -1
(277) */
/* 280 */
FC_STRUCT /*
0x15, /*
7 */
0x7, /*
/* 282 */ NdrPcShort( 0x8 ), /* 8 */
/* 284 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 286 */
0x12, 0x0, /*
FC_UP */
/* 288 */ NdrPcShort( 0xe ), /* Offset= 14 (302) */
/* 290 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 292 */ NdrPcShort( 0x2 ), /* 2 */
/* 294 */ 0x9, /* Corr desc: FC_ULONG
*/
0x0, /*
*/
/* 296 */ NdrPcShort( 0xfffc ), /* -4 */
/* 298 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 300 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 302 */
0x17, /*
FC_CSTRUCT */

```

```

3 */
/* 304 */ NdrPcShort( 0x8 ), /* 8 */
/* 306 */ NdrPcShort( 0xffffffff0 ), /* Offset= -
16 (290) */
/* 308 */ 0x8, /* FC_LONG */
FC_LONG */
/* 310 */ 0x5c, /* FC_PAD */
FC_END */
/* 312 */
FC_IP */
0x2f,
FC_IP */
0x5a,
FC_CONSTANT_IID */
/* 314 */ NdrPcLong( 0x0 ), /* 0 */
/* 318 */ NdrPcShort( 0x0 ), /* 0 */
/* 320 */ NdrPcShort( 0x0 ), /* 0 */
/* 322 */ 0xc0, /* 192 */
0 */
/* 324 */ 0x0, /* 0 */
0 */
/* 326 */ 0x0, /* 0 */
0 */
/* 328 */ 0x0, /* 0 */
70 */
/* 330 */
FC_IP */
0x2f,
FC_IP */
0x5a,
FC_CONSTANT_IID */
/* 332 */ NdrPcLong( 0x20400 ), /* 132096 */
/* 336 */ NdrPcShort( 0x0 ), /* 0 */
/* 338 */ NdrPcShort( 0x0 ), /* 0 */
/* 340 */ 0xc0, /* 192 */
0 */
/* 342 */ 0x0, /* 0 */
0 */
/* 344 */ 0x0, /* 0 */
0 */
/* 346 */ 0x0, /* 0 */
70 */
/* 348 */
FC_UP [pointer_deref] */
/* 350 */ NdrPcShort( 0x2 ), /* Offset= 2 (352) */
/* 352 */
FC_UP */
/* 354 */ NdrPcShort( 0x1e6 ), /* Offset=
486 (840) */
/* 356 */
FC_ENCAPSULATED_UNION */
0x2a,

```

```

137 */
/* 358 */ NdrPcShort( 0x20 ), /* 32 */
/* 360 */ NdrPcShort( 0xa ), /* 10 */
/* 362 */ NdrPcLong( 0x8 ), /* 8 */
/* 366 */ NdrPcShort( 0x50 ), /* Offset= 80 (446) */
/* 368 */ NdrPcLong( 0xd ), /* 13 */
/* 372 */ NdrPcShort( 0x70 ), /* Offset= 112 (484) */
/* 374 */ NdrPcLong( 0x9 ), /* 9 */
/* 378 */ NdrPcShort( 0x90 ), /* Offset= 144 (522) */
/* 380 */ NdrPcLong( 0xc ), /* 12 */
/* 384 */ NdrPcShort( 0xb0 ), /* Offset= 176 (560) */
/* 386 */ NdrPcLong( 0x24 ), /* 36 */
/* 390 */ NdrPcShort( 0x104 ), /* Offset=
260 (650) */
/* 392 */ NdrPcLong( 0x800d ), /* 32781 */
/* 396 */ NdrPcShort( 0x120 ), /* Offset=
288 (684) */
/* 398 */ NdrPcLong( 0x10 ), /* 16 */
/* 402 */ NdrPcShort( 0x13a ), /* Offset=
314 (716) */
/* 404 */ NdrPcLong( 0x2 ), /* 2 */
/* 408 */ NdrPcShort( 0x150 ), /* Offset=
336 (744) */
/* 410 */ NdrPcLong( 0x3 ), /* 3 */
/* 414 */ NdrPcShort( 0x166 ), /* Offset=
358 (772) */
/* 416 */ NdrPcLong( 0x14 ), /* 20 */
/* 420 */ NdrPcShort( 0x17c ), /* Offset=
380 (800) */
/* 422 */ NdrPcShort( 0xffffffff ), /* Offset= -1
(421) */
/* 424 */
FC_BOGUS_ARRAY */
0x21,
FC_BOGUS_ARRAY */
0x3,
3 */
/* 426 */ NdrPcShort( 0x0 ), /* 0 */
/* 428 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
/* 430 */ NdrPcShort( 0x0 ), /* 0 */
/* 432 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 434 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 438 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 440 */
FC_UP */
/* 442 */ NdrPcShort( 0xffffffff74 ), /* Offset= -
140 (302) */
/* 444 */ 0x5c, /* FC_PAD */
FC_END */
/* 446 */
FC_BOGUS_STRUCT */
0x1a,
FC_BOGUS_STRUCT */
0x3,
3 */
/* 448 */ NdrPcShort( 0x10 ), /* 16 */
/* 450 */ NdrPcShort( 0x0 ), /* 0 */
/* 452 */ NdrPcShort( 0x6 ), /* Offset= 6 (458) */

```

```

/* 454 */ 0x8, /* FC_LONG */
FC_ALIGNM8 */
/* 456 */ 0x36, /* FC_POINTER */
FC_END */
/* 458 */
FC_RP */
/* 460 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (424) */
/* 462 */
FC_BOGUS_ARRAY */
0x21,
FC_BOGUS_ARRAY */
0x3,
3 */
/* 464 */ NdrPcShort( 0x0 ), /* 0 */
/* 466 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
/* 468 */ NdrPcShort( 0x0 ), /* 0 */
/* 470 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 472 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 476 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 478 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
/* 480 */ NdrPcShort( 0xffffffff58 ), /* Offset= -
168 (312) */
/* 482 */ 0x5c, /* FC_PAD */
FC_END */
/* 484 */
FC_BOGUS_STRUCT */
0x1a,
FC_BOGUS_STRUCT */
0x3,
3 */
/* 486 */ NdrPcShort( 0x10 ), /* 16 */
/* 488 */ NdrPcShort( 0x0 ), /* 0 */
/* 490 */ NdrPcShort( 0x6 ), /* Offset= 6 (496) */
/* 492 */ 0x8, /* FC_LONG */
FC_ALIGNM8 */
/* 494 */ 0x36, /* FC_POINTER */
FC_END */
/* 496 */
FC_RP */
/* 498 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (462) */
/* 500 */
FC_BOGUS_ARRAY */
0x21,
FC_BOGUS_ARRAY */
0x3,
3 */
/* 502 */ NdrPcShort( 0x0 ), /* 0 */
/* 504 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */

```

```

0x0, /*
/* 506 */ NdrPcShort( 0x0 ), /* 0 */
/* 508 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 510 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 514 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 518 */ NdrPcShort( 0xffffffff44 ), /* Offset= -
188 (330) */
/* 520 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 522 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 524 */ NdrPcShort( 0x10 ), /* 16 */
/* 526 */ NdrPcShort( 0x0 ), /* 0 */
/* 528 */ NdrPcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 532 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 534 */
0x11, 0x0, /*
FC_RP */
/* 536 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (500) */
/* 538 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 540 */ NdrPcShort( 0x0 ), /* 0 */
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 544 */ NdrPcShort( 0x0 ), /* 0 */
/* 546 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 548 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 552 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 554 */
0x12, 0x0, /*
FC_UP */
/* 556 */ NdrPcShort( 0x176 ), /* Offset=
374 (930) */
/* 558 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 560 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */

```

```

/* 562 */ NdrPcShort( 0x10 ), /* 16 */
/* 564 */ NdrPcShort( 0x0 ), /* 0 */
/* 566 */ NdrPcShort( 0x6 ), /* Offset= 6 (572) */
/* 568 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 570 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 572 */
0x11, 0x0, /*
FC_RP */
/* 574 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (538) */
/* 576 */
0x2E, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 578 */ NdrPcLong( 0x2f ), /* 47 */
/* 582 */ NdrPcShort( 0x0 ), /* 0 */
/* 584 */ NdrPcShort( 0x0 ), /* 0 */
/* 586 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 588 */ 0x0, /* 0 */
0x0, /*
0 */
/* 590 */ 0x0, /* 0 */
0x0, /*
0 */
/* 592 */ 0x0, /* 0 */
0x46, /*
70 */
/* 594 */
0x1b, /*
FC_CARRAY */
0x0, /*
0 */
/* 596 */ NdrPcShort( 0x1 ), /* 1 */
/* 598 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 600 */ NdrPcShort( 0x4 ), /* 4 */
/* 602 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 604 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 606 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 608 */ NdrPcShort( 0x18 ), /* 24 */
/* 610 */ NdrPcShort( 0x0 ), /* 0 */
/* 612 */ NdrPcShort( 0xc ), /* Offset= 12 (624) */
/* 614 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 616 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/

```

```

0x0, /*
0 */
/* 618 */ NdrPcShort( 0xffffffff6 ), /* Offset= -
42 (576) */
/* 620 */ 0x39, /* FC_ALIGNM8 */
0x36, /*
FC_POINTER */
/* 622 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 624 */
0x12, 0x0, /*
FC_UP */
/* 626 */ NdrPcShort( 0xffffffffe0 ), /* Offset= -
32 (594) */
/* 628 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 630 */ NdrPcShort( 0x0 ), /* 0 */
/* 632 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 634 */ NdrPcShort( 0x0 ), /* 0 */
/* 636 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 638 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 642 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 644 */
0x12, 0x0, /*
FC_UP */
/* 646 */ NdrPcShort( 0xffffffff8 ), /* Offset= -
40 (606) */
/* 648 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 650 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 652 */ NdrPcShort( 0x10 ), /* 16 */
/* 654 */ NdrPcShort( 0x0 ), /* 0 */
/* 656 */ NdrPcShort( 0x6 ), /* Offset= 6 (662) */
/* 658 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 660 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 662 */
0x11, 0x0, /*
FC_RP */
/* 664 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (628) */
/* 666 */
0x1d, /*
FC_SMPARRAY */
0x0, /*
0 */
/* 668 */ NdrPcShort( 0x8 ), /* 8 */

```

```

/* 670 */ 0x1,          /* FC_BYTE */
FC_END /*
/* 672 */
FC_STRUCT */
3 */
/* 674 */ NdrFcShort( 0x10 ), /* 16 */
/* 676 */ 0x8,          /* FC_LONG */
FC_SHORT */
/* 678 */ 0x6,          /* FC_SHORT */
FC_EMBEDDED_COMPLEX /*
/* 680 */ 0x0,          /* 0 */
), /* Offset= -15 (666) */
FC_END /*
/* 684 */
FC_BOGUS_STRUCT */
3 */
/* 686 */ NdrFcShort( 0x20 ), /* 32 */
/* 688 */ NdrFcShort( 0x0 ), /* 0 */
/* 690 */ NdrFcShort( 0xa ), /* Offset= 10 (700) */
/* 692 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 694 */ 0x36,         /* FC_POINTER */
FC_EMBEDDED_COMPLEX /*
/* 696 */ 0x0,          /* 0 */
), /* Offset= -25 (672) */
FC_END /*
/* 700 */
FC_RP /*
/* 702 */ NdrFcShort( 0xfffff10 ), /* Offset= -
240 (462) */
/* 704 */
FC_CARRY /*
0 */
/* 706 */ NdrFcShort( 0x1 ), /* 1 */
/* 708 */ 0x19,         /* Corr desc: field
pointer, FC_ULONG */
/*
/* 710 */ NdrFcShort( 0x0 ), /* 0 */
/* 712 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 714 */ 0x1,          /* FC_BYTE */
FC_END /*
/* 716 */
FC_BOGUS_STRUCT */

```

```

0x3,
3 */
/* 718 */ NdrFcShort( 0x10 ), /* 16 */
/* 720 */ NdrFcShort( 0x0 ), /* 0 */
/* 722 */ NdrFcShort( 0x6 ), /* Offset= 6 (728) */
/* 724 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 726 */ 0x36,         /* FC_POINTER */
FC_END /*
/* 728 */
FC_UP /*
/* 730 */ NdrFcShort( 0xffffffe6 ), /* Offset= -
26 (704) */
/* 732 */
FC_CARRY /*
1 */
/* 734 */ NdrFcShort( 0x2 ), /* 2 */
/* 736 */ 0x19,         /* Corr desc: field
pointer, FC_ULONG */
/*
/* 738 */ NdrFcShort( 0x0 ), /* 0 */
/* 740 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 742 */ 0x6,          /* FC_SHORT */
FC_END /*
/* 744 */
FC_BOGUS_STRUCT */
3 */
/* 746 */ NdrFcShort( 0x10 ), /* 16 */
/* 748 */ NdrFcShort( 0x0 ), /* 0 */
/* 750 */ NdrFcShort( 0x6 ), /* Offset= 6 (756) */
/* 752 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 754 */ 0x36,         /* FC_POINTER */
FC_END /*
/* 756 */
FC_UP /*
/* 758 */ NdrFcShort( 0xffffffe6 ), /* Offset= -
26 (732) */
/* 760 */
FC_CARRY /*
3 */
/* 762 */ NdrFcShort( 0x4 ), /* 4 */
/* 764 */ 0x19,         /* Corr desc: field
pointer, FC_ULONG */
/*
/* 766 */ NdrFcShort( 0x0 ), /* 0 */

```

```

/* 768 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 770 */ 0x8,          /* FC_LONG */
FC_END /*
/* 772 */
FC_BOGUS_STRUCT */
3 */
/* 774 */ NdrFcShort( 0x10 ), /* 16 */
/* 776 */ NdrFcShort( 0x0 ), /* 0 */
/* 778 */ NdrFcShort( 0x6 ), /* Offset= 6 (784) */
/* 780 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 782 */ 0x36,         /* FC_POINTER */
FC_END /*
/* 784 */
FC_UP /*
/* 786 */ NdrFcShort( 0xffffffe6 ), /* Offset= -
26 (760) */
/* 788 */
FC_CARRY /*
7 */
/* 790 */ NdrFcShort( 0x8 ), /* 8 */
/* 792 */ 0x19,         /* Corr desc: field
pointer, FC_ULONG */
/*
/* 794 */ NdrFcShort( 0x0 ), /* 0 */
/* 796 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 798 */ 0xb,          /* FC_HYPER */
FC_END /*
/* 800 */
FC_BOGUS_STRUCT */
3 */
/* 802 */ NdrFcShort( 0x10 ), /* 16 */
/* 804 */ NdrFcShort( 0x0 ), /* 0 */
/* 806 */ NdrFcShort( 0x6 ), /* Offset= 6 (812) */
/* 808 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 810 */ 0x36,         /* FC_POINTER */
FC_END /*
/* 812 */
FC_UP /*
/* 814 */ NdrFcShort( 0xffffffe6 ), /* Offset= -
26 (788) */
/* 816 */
FC_STRUCT */

```

```

0x3, /*
3 */
/* 818 */ NdrPcShort( 0x8 ), /* 8 */
/* 820 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 822 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 824 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 826 */ NdrPcShort( 0x8 ), /* 8 */
/* 828 */ 0x7, /* Corr desc: FC_USHORT */
0x0, /*
*/
/* 830 */ NdrPcShort( 0xffc8 ), /* -56 */
/* 832 */ NdrPcShort( 0x1 ), /* Corr flags: early, */
*/
/* 834 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
0x0, /*
0 */
/* 836 */ NdrPcShort( 0xfffffec ), /* Offset= -
20 (816) */
/* 838 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 840 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 842 */ NdrPcShort( 0x38 ), /* 56 */
/* 844 */ NdrPcShort( 0xfffffec ), /* Offset= -
20 (824) */
/* 846 */ NdrPcShort( 0x0 ), /* Offset= 0 (846) */
/* 848 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 850 */ 0x38, /* FC_ALIGNM4 */
0x8, /*
FC_LONG */
/* 852 */ 0x8, /* FC_LONG */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 854 */ 0x4, /* 4 */
NdrPcShort( 0xffffe0d
), /* Offset= -499 (356) */
0x5b, /*
FC_END */
/* 858 */
0x12, 0x0, /*
FC_UP */
/* 860 */ NdrPcShort( 0xfffff02 ), /* Offset= -
254 (606) */
/* 862 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 864 */ 0x1, /* FC_BYTE */

```

```

0x5c, /*
FC_PAD */
/* 866 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 868 */ 0x6, /* FC_SHORT */
0x5c, /*
FC_PAD */
/* 870 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 872 */ 0x8, /* FC_LONG */
0x5c, /*
FC_PAD */
/* 874 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 876 */ 0xa, /* FC_FLOAT */
0x5c, /*
FC_PAD */
/* 878 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 880 */ 0xc, /* FC_DOUBLE */
0x5c, /*
FC_PAD */
/* 882 */
0x12, 0x0, /*
FC_UP */
/* 884 */ NdrPcShort( 0xffffda4 ), /* Offset= -
604 (280) */
/* 886 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 888 */ NdrPcShort( 0xffffda6 ), /* Offset= -
602 (286) */
/* 890 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 892 */ NdrPcShort( 0xffffdbc ), /* Offset= -
580 (312) */
/* 894 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 896 */ NdrPcShort( 0xffffdca ), /* Offset= -
566 (330) */
/* 898 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 900 */ NdrPcShort( 0xffffdd8 ), /* Offset= -
552 (348) */
/* 902 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 904 */ NdrPcShort( 0x2 ), /* Offset= 2 (906) */
/* 906 */
0x12, 0x0, /*
FC_UP */
/* 908 */ NdrPcShort( 0x16 ), /* Offset= 22 (930) */
/* 910 */
0x15, /*
FC_STRUCT */

```

```

0x7, /*
7 */
/* 912 */ NdrPcShort( 0x10 ), /* 16 */
/* 914 */ 0x6, /* FC_SHORT */
0x1, /*
FC_BYTE */
/* 916 */ 0x1, /* FC_BYTE */
0x38, /*
FC_ALIGNM4 */
/* 918 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 920 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 922 */
0x12, 0x0, /*
FC_UP */
/* 924 */ NdrPcShort( 0xfffff2 ), /* Offset= -
14 (910) */
/* 926 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 928 */ 0x2, /* FC_CHAR */
0x5c, /*
FC_PAD */
/* 930 */
0x1a, /*
FC_BOGUS_STRUCT */
0x7, /*
7 */
/* 932 */ NdrPcShort( 0x20 ), /* 32 */
/* 934 */ NdrPcShort( 0x0 ), /* 0 */
/* 936 */ NdrPcShort( 0x0 ), /* Offset= 0 (936) */
/* 938 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 940 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 942 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 944 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
0x0, /*
0 */
/* 946 */ NdrPcShort( 0xffffc54 ), /* Offset= -
940 (6) */
/* 948 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 950 */ 0xb4, /* FC_USER_MARSHAL */
0x83, /*
131 */
/* 952 */ NdrPcShort( 0x0 ), /* 0 */
/* 954 */ NdrPcShort( 0x18 ), /* 24 */
/* 956 */ NdrPcShort( 0x0 ), /* 0 */
/* 958 */ NdrPcShort( 0xffffc44 ), /* Offset= -
956 (2) */
/* 960 */
0x11, 0x4, /*
FC_RP [alloted_on_stack] */

```



```

/* 962 */ NdrFcShort( 0x6 ), /* Offset= 6 (968) */
/* 964 */
                                0x13, 0x0, /*
FC_OP */
/* 966 */ NdrFcShort( 0xffffffffdc ), /* Offset= -
36 (930) */
/* 968 */ 0xb4, /* FC_USER_MARSHAL */
                                0x83, /*
131 */
/* 970 */ NdrFcShort( 0x0 ), /* 0 */
/* 972 */ NdrFcShort( 0x18 ), /* 24 */
/* 974 */ NdrFcShort( 0x0 ), /* 0 */
/* 976 */ NdrFcShort( 0xffffffff4 ), /* Offset= -
12 (964) */
                                0x0
    }
};

const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    ( CInterfaceProxyVtbl * ) &ITPCCProxyVtbl,
    0
};

const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    ( CInterfaceStubVtbl * ) &ITPCCStubVtbl,
    0
};

PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};

#define _tpcc_com_ps_CHECK_IID(n)
IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)

int __stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{
    if(! _tpcc_com_ps_CHECK_IID(0))
    {
        *pIndex = 0;
        return 1;
    }

    return 0;
}

const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,

```

```

(PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
    (const PCInterfaceName * ) &
_tpcc_com_ps_InterfaceNamesList,
    0, /* no delegation
& _tpcc_com_ps_IID_Lookup,
    1,
    2,
    0, /* table of [async_uuid] interfaces */
    0, /* Filler1 */
    0, /* Filler2 */
    0 /* Filler3 */
};

#endif /* defined(_M_IA64) || defined(_M_AXP64) */

```

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 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run),
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_

/* 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_FAR * __RPC_USER
MIDL_user_allocate(size_t);
void __RPC_USER MIDL_user_free( void __RPC_FAR * );

/* 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("FEBE6AA2-84B1-11d2-BA47-
00C04PBF08B")
    ITPCC : public IUnknown
    {
    public:
        virtual HRESULT __stdcall NewOrder(
            /* [in] */ VARIANT txn_in,
            /* [out] */ VARIANT __RPC_FAR *txn_out) =
0;

        virtual HRESULT __stdcall Payment(
            /* [in] */ VARIANT txn_in,

```

```

0;          /* [out] */ VARIANT __RPC_FAR *txn_out) =
virtual HRESULT __stdcall Delivery(
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out) =
0;
virtual HRESULT __stdcall StockLevel(
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out) =
0;
virtual HRESULT __stdcall OrderStatus(
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out) =
0;
virtual HRESULT __stdcall CallSetComplete(
void) = 0;
};
#else /* C style interface */
typedef struct ITPCCVtbl
{
    BEGIN_INTERFACE
        HRESULT ( STDMETHODCALLTYPE __RPC_FAR
*QueryInterface )(
        ITPCC __RPC_FAR * This,
/* [in] */ REFIID riid,
/* [iid_is][out] */ void __RPC_FAR
*_RPC_FAR *ppvObject);
        ULONG ( STDMETHODCALLTYPE __RPC_FAR *AddRef
)(
        ITPCC __RPC_FAR * This);
        ULONG ( STDMETHODCALLTYPE __RPC_FAR *Release
)(
        ITPCC __RPC_FAR * This);
        HRESULT ( STDMETHODCALLTYPE __RPC_FAR *NewOrder )(
        ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
        HRESULT ( STDMETHODCALLTYPE __RPC_FAR *Payment )(
        ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
        HRESULT ( STDMETHODCALLTYPE __RPC_FAR *Delivery )(
        ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
        HRESULT ( STDMETHODCALLTYPE __RPC_FAR *StockLevel )(
        ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);

```

```

        HRESULT ( STDMETHODCALLTYPE __stdcall __RPC_FAR *OrderStatus )(
        ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
        HRESULT ( STDMETHODCALLTYPE __stdcall __RPC_FAR
*CallSetComplete )(
        ITPCC __RPC_FAR * This);
    END_INTERFACE
} ITPCCVtbl;
interface ITPCC
{
    CONST_VTBL struct ITPCCVtbl __RPC_FAR
*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 STDMETHODCALLTYPE ITPCC_NewOrder_Proxy(
ITPCC __RPC_FAR * This,

```

```

/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
void __RPC_STUB ITPCC_NewOrder_Stub(
IRpcStubBuffer *This,
IRpcChannelBuffer *pRpcChannelBuffer,
PRPC_MESSAGE pRpcMessage,
DWORD *_pdwStubPhase);
HRESULT STDMETHODCALLTYPE ITPCC_Payment_Proxy(
ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
void __RPC_STUB ITPCC_Payment_Stub(
IRpcStubBuffer *This,
IRpcChannelBuffer *pRpcChannelBuffer,
PRPC_MESSAGE pRpcMessage,
DWORD *_pdwStubPhase);
HRESULT STDMETHODCALLTYPE ITPCC_Delivery_Proxy(
ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
void __RPC_STUB ITPCC_Delivery_Stub(
IRpcStubBuffer *This,
IRpcChannelBuffer *pRpcChannelBuffer,
PRPC_MESSAGE pRpcMessage,
DWORD *_pdwStubPhase);
HRESULT STDMETHODCALLTYPE ITPCC_StockLevel_Proxy(
ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
void __RPC_STUB ITPCC_StockLevel_Stub(
IRpcStubBuffer *This,
IRpcChannelBuffer *pRpcChannelBuffer,
PRPC_MESSAGE pRpcMessage,
DWORD *_pdwStubPhase);
HRESULT STDMETHODCALLTYPE ITPCC_OrderStatus_Proxy(
ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
void __RPC_STUB ITPCC_OrderStatus_Stub(
IRpcStubBuffer *This,
IRpcChannelBuffer *pRpcChannelBuffer,
PRPC_MESSAGE pRpcMessage,
DWORD *_pdwStubPhase);

```

```

HRESULT __stdcall ITPCC_CallSetComplete_Proxy(
    ITPCC __RPC_FAR * This);

void __RPC_STUB ITPCC_CallSetComplete_Stub(
    IRpcStubBuffer *This,
    IRpcChannelBuffer *pRpcChannelBuffer,
    PRPC_MESSAGE pRpcMessage,
    DWORD *pdwStubPhase);

#endif /* __ITPCC_INTERFACE_DEFINED__ */

/* Additional Prototypes for ALL interfaces */

unsigned long             __RPC_USER
VARIANT_UserSize(        unsigned long __RPC_FAR *,
    unsigned long         , VARIANT __RPC_FAR * );
unsigned char __RPC_FAR * __RPC_USER
VARIANT_UserMarshal(    unsigned long __RPC_FAR *,
    unsigned char __RPC_FAR *, VARIANT __RPC_FAR * );
unsigned char __RPC_FAR * __RPC_USER
VARIANT_UserUnmarshal( unsigned long __RPC_FAR *,
    unsigned char __RPC_FAR *, VARIANT __RPC_FAR * );
void __RPC_USER
VARIANT_UserFree(       unsigned long __RPC_FAR *,
    VARIANT __RPC_FAR * );

/* end of Additional Prototypes */

#ifdef __cplusplus
}
#endif

#endif


```

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 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
    Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run),
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_HEADER( )

#ifdef !defined(_M_IA64) && !defined(_M_AXP64)
#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"
#ifdef __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 997
#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;

extern const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString;

/* 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,{0x00,0x00,0x00,0x00,0
x00,0x00,0x00,0x46}} */

```

```

/* Object interface: ITPCC, ver. 0.0,
GUID={0xFEED6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
{
    0,
    34,
    68,
    102,
    136,
    170
};

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0
};

CINTERFACE_PROXY_VTABLE(9) _ITPCCProxyVtbl =
{
    &ITPCC_ProxyInfo,
    &IID_ITPCC,
    IUnknown_QueryInterface_Proxy,
    IUnknown_AddRef_Proxy,
    IUnknown_Release_Proxy ,
    (void *)-1 /* ITPCC::NewOrder */ ,
    (void *)-1 /* ITPCC::Payment */ ,
    (void *)-1 /* ITPCC::Delivery */ ,
    (void *)-1 /* ITPCC::StockLevel */ ,
    (void *)-1 /* ITPCC::OrderStatus */ ,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{

```

```

&IID_ITPCC,
&ITPCC_ServerInfo,
9,
0, /* pure interpreted */
CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

static const MIDL_STUB_DESC Object_StubDesc =
{
0,
NdrOleAllocate,
NdrOleFree,
0,
0,
0,
0,
0,
0,
MIDL_TypeFormatString.Format,
1, /* -error bounds_check flag */
0x20000, /* Ndr library version */
0,
0x5030118, /* MIDL Version 5.3.280 */
0,
UserMarshalRoutines,
0, /* notify & notify_flag routine table */
0x1, /* MIDL flag */
0, /* Reserved3 */
0, /* Reserved4 */
0 /* Reserved5 */
};

#pragma data_seg(".rdata")

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
{
{
VARIANT_UserSize
,VARIANT_UserMarshal
,VARIANT_UserUnmarshal
,VARIANT_UserFree
}
};

#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 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 24 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 26 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 28 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 30 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 32 */ 0x8, /* FC_LONG */
/* 0 */ 0x0, /*
*/

/* Procedure Payment */

/* 34 */ 0x33, /* FC_AUTO_HANDLE */
0x6c, /*
Old Flags: object, Oi2 */
/* 36 */ NdrFcLong( 0x0 ), /* 0 */
/* 40 */ NdrFcShort( 0x4 ), /* 4 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)

```

```

/* 20 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 22 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 24 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 26 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 28 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 30 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 32 */ 0x8, /* FC_LONG */
/* 0 */ 0x0, /*
*/

/* Procedure Payment */

/* 34 */ 0x33, /* FC_AUTO_HANDLE */
0x6c, /*
Old Flags: object, Oi2 */
/* 36 */ NdrFcLong( 0x0 ), /* 0 */
/* 40 */ NdrFcShort( 0x4 ), /* 4 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)

```

```

/* 42 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 52 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 54 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 56 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 58 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#endif

```

```

#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 60 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 62 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 64 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 76 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 86 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 88 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 90 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 92 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 94 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 96 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 98 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else

```

```

                                NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined( _MIPS_ )
/* 110 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined( _MIPS_ )
/* 120 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
Alpha Stack size/offset = 8 */
#endif
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif

```

```

/* 122 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 124 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined( _MIPS_ )
/* 126 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
                                NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
Alpha Stack size/offset = 24 */
#endif
/* 128 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 130 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined( _MIPS_ )
/* 132 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
                                NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined( _MIPS_ )

```

```

/* 144 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined( _MIPS_ )
/* 154 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
Alpha Stack size/offset = 8 */
#endif
/* 156 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 158 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined( _MIPS_ )
/* 160 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
                                NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif

```

```

#else
                                NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 162 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 164 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef ALPHA_
#ifndef PPC_
#if !defined( MIPS_ )
/* 166 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
                                NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 168 */ 0x8, /* FC_LONG */
0 */
                                0x0, /*
*/

/* Procedure CallSetComplete */

/* 170 */ 0x33, /* FC_AUTO_HANDLE */
0x6c, /*
Old Flags: object, Oi2 */
/* 172 */ NdrFcLong( 0x0 ), /* 0 */
/* 176 */ NdrFcShort( 0x8 ), /* 8 */
#ifndef ALPHA_
/* 178 */ NdrFcShort( 0x8 ), /* x86, MIPS, PPC Stack
size/offset = 8 */
#else
                                NdrFcShort( 0x10 ), /*
Alpha Stack size/offset = 16 */
#endif
/* 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, */
#ifndef ALPHA_
/* 188 */ NdrFcShort( 0x4 ), /* x86, MIPS, PPC Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */

```

```

#endif
/* 190 */ 0x8, /* FC_LONG */
0x0, /*
0 */
                                0x0
};

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
    0,
    {
        NdrFcShort( 0x0 ), /*
0 */
/* 2 */
                                0x12, 0x0, /*
FC_UP */
/* 4 */ NdrFcShort( 0x3b0 ), /* Offset=
944 (948) */
/* 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( 0x2b ), /* 43 */
/* 18 */ NdrFcLong( 0x3 ), /* 3 */
/* 22 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 24 */ NdrFcLong( 0x11 ), /* 17 */
/* 28 */ NdrFcShort( 0x8001 ), /* Simple arm
type: FC_BYTE */
/* 30 */ NdrFcLong( 0x2 ), /* 2 */
/* 34 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 36 */ NdrFcLong( 0x4 ), /* 4 */
/* 40 */ NdrFcShort( 0x800a ), /* Simple arm
type: FC_FLOAT */
/* 42 */ NdrFcLong( 0x5 ), /* 5 */
/* 46 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 48 */ NdrFcLong( 0xb ), /* 11 */
/* 52 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 54 */ NdrFcLong( 0xa ), /* 10 */
/* 58 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 60 */ NdrFcLong( 0x6 ), /* 6 */
/* 64 */ NdrFcShort( 0xd6 ), /* Offset= 214 (278) */
/* 66 */ NdrFcLong( 0x7 ), /* 7 */
/* 70 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 72 */ NdrFcLong( 0x8 ), /* 8 */
/* 76 */ NdrFcShort( 0xd0 ), /* Offset= 208 (284) */
/* 78 */ NdrFcLong( 0xd ), /* 13 */

```

```

/* 82 */ NdrFcShort( 0xe2 ), /* Offset= 226 (308) */
/* 84 */ NdrFcLong( 0x9 ), /* 9 */
/* 88 */ NdrFcShort( 0xee ), /* Offset= 238 (326) */
/* 90 */ NdrFcLong( 0x2000 ), /* 8192 */
/* 94 */ NdrFcShort( 0xfa ), /* Offset= 250 (344) */
/* 96 */ NdrFcLong( 0x24 ), /* 36 */
/* 100 */ NdrFcShort( 0x308 ), /* Offset=
776 (876) */
/* 102 */ NdrFcLong( 0x4024 ), /* 16420 */
/* 106 */ NdrFcShort( 0x302 ), /* Offset=
770 (876) */
/* 108 */ NdrFcLong( 0x4011 ), /* 16401 */
/* 112 */ NdrFcShort( 0x300 ), /* Offset=
768 (880) */
/* 114 */ NdrFcLong( 0x4002 ), /* 16386 */
/* 118 */ NdrFcShort( 0x2fe ), /* Offset=
766 (884) */
/* 120 */ NdrFcLong( 0x4003 ), /* 16387 */
/* 124 */ NdrFcShort( 0x2fc ), /* Offset=
764 (888) */
/* 126 */ NdrFcLong( 0x4004 ), /* 16388 */
/* 130 */ NdrFcShort( 0x2fa ), /* Offset=
762 (892) */
/* 132 */ NdrFcLong( 0x4005 ), /* 16389 */
/* 136 */ NdrFcShort( 0x2f8 ), /* Offset=
760 (896) */
/* 138 */ NdrFcLong( 0x400b ), /* 16395 */
/* 142 */ NdrFcShort( 0x2e6 ), /* Offset=
742 (884) */
/* 144 */ NdrFcLong( 0x400a ), /* 16394 */
/* 148 */ NdrFcShort( 0x2e4 ), /* Offset=
740 (888) */
/* 150 */ NdrFcLong( 0x4006 ), /* 16390 */
/* 154 */ NdrFcShort( 0x2ea ), /* Offset=
746 (900) */
/* 156 */ NdrFcLong( 0x4007 ), /* 16391 */
/* 160 */ NdrFcShort( 0x2e0 ), /* Offset=
736 (896) */
/* 162 */ NdrFcLong( 0x4008 ), /* 16392 */
/* 166 */ NdrFcShort( 0x2e2 ), /* Offset=
738 (904) */
/* 168 */ NdrFcLong( 0x400d ), /* 16397 */
/* 172 */ NdrFcShort( 0x2e0 ), /* Offset=
736 (908) */
/* 174 */ NdrFcLong( 0x4009 ), /* 16393 */
/* 178 */ NdrFcShort( 0x2de ), /* Offset=
734 (912) */
/* 180 */ NdrFcLong( 0x6000 ), /* 24576 */
/* 184 */ NdrFcShort( 0x2dc ), /* Offset=
732 (916) */
/* 186 */ NdrFcLong( 0x400c ), /* 16396 */
/* 190 */ NdrFcShort( 0x2da ), /* Offset=
730 (920) */
/* 192 */ NdrFcLong( 0x10 ), /* 16 */
/* 196 */ NdrFcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 198 */ NdrFcLong( 0x12 ), /* 18 */
/* 202 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 204 */ NdrFcLong( 0x13 ), /* 19 */
/* 208 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 210 */ NdrFcLong( 0x16 ), /* 22 */

```

```

/* 214 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 216 */ NdrFcLong( 0x17 ), /* 23 */
/* 220 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 222 */ NdrFcLong( 0xe ), /* 14 */
/* 226 */ NdrFcShort( 0x2be ), /* Offset=
702 (928) */
/* 228 */ NdrFcLong( 0x400e ), /* 16398 */
/* 232 */ NdrFcShort( 0x2c4 ), /* Offset=
708 (940) */
/* 234 */ NdrFcLong( 0x4010 ), /* 16400 */
/* 238 */ NdrFcShort( 0x2c2 ), /* Offset=
706 (944) */
/* 240 */ NdrFcLong( 0x4012 ), /* 16402 */
/* 244 */ NdrFcShort( 0x280 ), /* Offset=
640 (884) */
/* 246 */ NdrFcLong( 0x4013 ), /* 16403 */
/* 250 */ NdrFcShort( 0x27e ), /* Offset=
638 (888) */
/* 252 */ NdrFcLong( 0x4016 ), /* 16406 */
/* 256 */ NdrFcShort( 0x278 ), /* Offset=
632 (888) */
/* 258 */ NdrFcLong( 0x4017 ), /* 16407 */
/* 262 */ NdrFcShort( 0x272 ), /* Offset=
626 (888) */
/* 264 */ NdrFcLong( 0x0 ), /* 0 */
/* 268 */ NdrFcShort( 0x0 ), /* Offset= 0 (268) */
/* 270 */ NdrFcLong( 0x1 ), /* 1 */
/* 274 */ NdrFcShort( 0x0 ), /* Offset= 0 (274) */
/* 276 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(275) */
/* 278 */
0x15, /*
FC_STRUCT */
0x7, /*
7 */
/* 280 */ NdrFcShort( 0x8 ), /* 8 */
/* 282 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 284 */
0x12, 0x0, /*
FC_UP */
/* 286 */ NdrFcShort( 0xc ), /* Offset= 12 (298) */
/* 288 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 290 */ NdrFcShort( 0x2 ), /* 2 */
/* 292 */ 0x9, /* Corr desc: FC_ULONG */
0x0, /*
*/
/* 294 */ NdrFcShort( 0xffc ), /* -4 */
/* 296 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 298 */
0x17, /*
FC_CSTRUCT */

```

```

0x3, /*
3 */
/* 300 */ NdrFcShort( 0x8 ), /* 8 */
/* 302 */ NdrFcShort( 0xffffffff2 ), /* Offset= -
14 (288) */
/* 304 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 306 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 308 */
0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 310 */ NdrFcLong( 0x0 ), /* 0 */
/* 314 */ NdrFcShort( 0x0 ), /* 0 */
/* 316 */ NdrFcShort( 0x0 ), /* 0 */
/* 318 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 320 */ 0x0, /* 0 */
0x0, /*
0 */
/* 322 */ 0x0, /* 0 */
0x0, /*
0 */
/* 324 */ 0x0, /* 0 */
0x46, /*
70 */
/* 326 */
0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 328 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 332 */ NdrFcShort( 0x0 ), /* 0 */
/* 334 */ NdrFcShort( 0x0 ), /* 0 */
/* 336 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 338 */ 0x0, /* 0 */
0x0, /*
0 */
/* 340 */ 0x0, /* 0 */
0x0, /*
0 */
/* 342 */ 0x0, /* 0 */
0x46, /*
70 */
/* 344 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 346 */ NdrFcShort( 0x2 ), /* Offset= 2 (348) */
/* 348 */
0x12, 0x0, /*
FC_UP */
/* 350 */ NdrFcShort( 0x1fc ), /* Offset=
508 (858) */
/* 352 */
0x2a, /*
FC_ENCAPSULATED_UNION */

```

```

0x49, /*
73 */
/* 354 */ NdrFcShort( 0x18 ), /* 24 */
/* 356 */ NdrFcShort( 0xa ), /* 10 */
/* 358 */ NdrFcLong( 0x8 ), /* 8 */
/* 362 */ NdrFcShort( 0x58 ), /* Offset= 88 (450) */
/* 364 */ NdrFcLong( 0xd ), /* 13 */
/* 368 */ NdrFcShort( 0x78 ), /* Offset= 120 (488) */
/* 370 */ NdrFcLong( 0x9 ), /* 9 */
/* 374 */ NdrFcShort( 0x94 ), /* Offset= 148 (522) */
/* 376 */ NdrFcLong( 0xc ), /* 12 */
/* 380 */ NdrFcShort( 0xbc ), /* Offset= 188 (568) */
/* 382 */ NdrFcLong( 0x24 ), /* 36 */
/* 386 */ NdrFcShort( 0x114 ), /* Offset=
276 (662) */
/* 388 */ NdrFcLong( 0x800d ), /* 32781 */
/* 392 */ NdrFcShort( 0x130 ), /* Offset=
304 (696) */
/* 394 */ NdrFcLong( 0x10 ), /* 16 */
/* 398 */ NdrFcShort( 0x148 ), /* Offset=
328 (726) */
/* 400 */ NdrFcLong( 0x2 ), /* 2 */
/* 404 */ NdrFcShort( 0x160 ), /* Offset=
352 (756) */
/* 406 */ NdrFcLong( 0x3 ), /* 3 */
/* 410 */ NdrFcShort( 0x178 ), /* Offset=
376 (786) */
/* 412 */ NdrFcLong( 0x14 ), /* 20 */
/* 416 */ NdrFcShort( 0x190 ), /* Offset=
400 (816) */
/* 418 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(417) */
/* 420 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 422 */ NdrFcShort( 0x4 ), /* 4 */
/* 424 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 426 */ NdrFcShort( 0x0 ), /* 0 */
/* 428 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 430 */
0x48, /*
FC_VARIABLE_REPEAT */
0x49, /*
FC_FIXED_OFFSET */
/* 432 */ NdrFcShort( 0x4 ), /* 4 */
/* 434 */ NdrFcShort( 0x0 ), /* 0 */
/* 436 */ NdrFcShort( 0x1 ), /* 1 */
/* 438 */ NdrFcShort( 0x0 ), /* 0 */
/* 440 */ NdrFcShort( 0x0 ), /* 0 */
/* 442 */ 0x12, 0x0, /* FC_UP */
/* 444 */ NdrFcShort( 0xffffffff6e ), /* Offset= -
146 (298) */
/* 446 */

```



```

FC_END */
                                0x5b,      /*
/* 448 */ 0x5c,
                                0x8,      /*
/* 450 */
                                0x5b,      /*
/* 454 */
                                0x16,      /*
FC_PSTRUCT */
                                0x3,      /*
3 */
/* 452 */ NdrFcShort( 0x8 ), /* 8 */
/* 454 */
                                0x4b,      /*
FC_PP */
                                0x5c,      /*
FC_PAD */
/* 456 */
                                0x46,      /*
FC_NO_REPEAT */
                                0x5c,      /*
FC_PAD */
/* 458 */ NdrFcShort( 0x4 ), /* 4 */
/* 460 */ NdrFcShort( 0x4 ), /* 4 */
/* 462 */ 0x11, 0x0, /* FC_RP */
/* 464 */ NdrFcShort( 0xffffffffd4 ), /* Offset= -
44 (420) */
/* 466 */
                                0x5b,      /*
FC_END */
                                0x8,      /*
FC_LONG */
/* 468 */ 0x8,
                                /* FC_LONG */
                                0x5b,      /*
FC_END */
/* 470 */
                                0x21,      /*
FC_BOGUS_ARRAY */
                                0x3,      /*
3 */
/* 472 */ NdrFcShort( 0x0 ), /* 0 */
/* 474 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,      /*
/*
/* 476 */ NdrFcShort( 0x0 ), /* 0 */
/* 478 */ NdrFcLong( 0xfffffffff ), /* -1 */
/* 482 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
                                0x0,      /*
0 */
/* 484 */ NdrFcShort( 0xfffffffff50 ), /* Offset= -
176 (308) */
/* 486 */ 0x5c, /* FC_PAD */
                                0x5b,      /*
FC_END */
/* 488 */
                                0x1a,      /*
FC_BOGUS_STRUCT */

```

```

0x3,      /*
3 */
/* 490 */ NdrFcShort( 0x8 ), /* 8 */
/* 492 */ NdrFcShort( 0x0 ), /* 0 */
/* 494 */ NdrFcShort( 0x6 ), /* Offset= 6 (500) */
/* 496 */ 0x8, /* FC_LONG */
                                0x36,      /*
FC_POINTER */
/* 498 */ 0x5c,
                                /* FC_PAD */
                                0x5b,      /*
FC_END */
/* 500 */
                                0x11, 0x0,      /*
FC_RP */
/* 502 */ NdrFcShort( 0xffffffffe0 ), /* Offset= -
32 (470) */
/* 504 */
                                0x21,      /*
FC_BOGUS_ARRAY */
                                0x3,      /*
3 */
/* 506 */ NdrFcShort( 0x0 ), /* 0 */
/* 508 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,      /*
/*
/* 510 */ NdrFcShort( 0x0 ), /* 0 */
/* 512 */ NdrFcLong( 0xfffffffff ), /* -1 */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
                                0x0,      /*
0 */
/* 518 */ NdrFcShort( 0xfffffffff40 ), /* Offset= -
192 (326) */
/* 520 */ 0x5c, /* FC_PAD */
                                0x5b,      /*
FC_END */
/* 522 */
                                0x1a,      /*
FC_BOGUS_STRUCT */
                                0x3,      /*
3 */
/* 524 */ NdrFcShort( 0x8 ), /* 8 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
                                0x36,      /*
FC_POINTER */
/* 532 */ 0x5c,
                                /* FC_PAD */
                                0x5b,      /*
FC_END */
/* 534 */
                                0x11, 0x0,      /*
FC_RP */
/* 536 */ NdrFcShort( 0xffffffffe0 ), /* Offset= -
32 (504) */
/* 538 */
                                0x1b,      /*
FC_CARRAY */
                                0x3,      /*
3 */
/* 540 */ NdrFcShort( 0x4 ), /* 4 */

```

```

/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,      /*
/*
/* 544 */ NdrFcShort( 0x0 ), /* 0 */
/* 546 */
                                0x4b,      /*
FC_PP */
                                0x5c,      /*
FC_PAD */
/* 548 */
                                0x48,      /*
FC_VARIABLE_REPEAT */
                                0x49,      /*
FC_FIXED_OFFSET */
/* 550 */ NdrFcShort( 0x4 ), /* 4 */
/* 552 */ NdrFcShort( 0x0 ), /* 0 */
/* 554 */ NdrFcShort( 0x1 ), /* 1 */
/* 556 */ NdrFcShort( 0x0 ), /* 0 */
/* 558 */ NdrFcShort( 0x0 ), /* 0 */
/* 560 */ 0x12, 0x0, /* FC_UP */
/* 562 */ NdrFcShort( 0x182 ), /* Offset=
386 (948) */
/* 564 */
                                0x5b,      /*
FC_END */
                                0x8,      /*
FC_LONG */
/* 566 */ 0x5c,
                                /* FC_PAD */
                                0x5b,      /*
FC_END */
/* 568 */
                                0x1a,      /*
FC_BOGUS_STRUCT */
                                0x3,      /*
3 */
/* 570 */ NdrFcShort( 0x8 ), /* 8 */
/* 572 */ NdrFcShort( 0x0 ), /* 0 */
/* 574 */ NdrFcShort( 0x6 ), /* Offset= 6 (580) */
/* 576 */ 0x8, /* FC_LONG */
                                0x36,      /*
FC_POINTER */
/* 578 */ 0x5c,
                                /* FC_PAD */
                                0x5b,      /*
FC_END */
/* 580 */
                                0x11, 0x0,      /*
FC_RP */
/* 582 */ NdrFcShort( 0xfffffffffd4 ), /* Offset= -
44 (538) */
/* 584 */
                                0x2f,      /*
FC_IP */
                                0x5a,      /*
FC_CONSTANT_IID */
/* 586 */ NdrFcLong( 0x2f ), /* 47 */
/* 590 */ NdrFcShort( 0x0 ), /* 0 */
/* 592 */ NdrFcShort( 0x0 ), /* 0 */
/* 594 */ 0xc0, /* 192 */
                                0x0,      /*
0 */
/* 596 */ 0x0,
                                /* 0 */

```

```

0x0, /*
0 */
/* 598 */ 0x0, /* 0 */
0x0, /*
0 */
/* 600 */ 0x0, /* 0 */
0x46, /*
70 */
/* 602 */
FC_CARRAY */
0x1b, /*
0x0, /*
0 */
/* 604 */ NdrFcShort( 0x1 ), /* 1 */
/* 606 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 608 */ NdrFcShort( 0x4 ), /* 4 */
/* 610 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 612 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 614 */ NdrFcShort( 0x10 ), /* 16 */
/* 616 */ NdrFcShort( 0x0 ), /* 0 */
/* 618 */ NdrFcShort( 0xa ), /* Offset= 10 (628) */
/* 620 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 622 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 624 */ NdrFcShort( 0xfffffd8 ), /* Offset= -
40 (584) */
/* 626 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 628 */
0x12, 0x0, /*
FC_UP */
/* 630 */ NdrFcShort( 0xfffffe4 ), /* Offset= -
28 (602) */
/* 632 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 634 */ NdrFcShort( 0x4 ), /* 4 */
/* 636 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 638 */ NdrFcShort( 0x0 ), /* 0 */
/* 640 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */

```

```

/* 642 */
FC_VARIABLE_REPEAT */
0x48, /*
FC_FIXED_OFFSET */
/* 644 */ NdrFcShort( 0x4 ), /* 4 */
/* 646 */ NdrFcShort( 0x0 ), /* 0 */
/* 648 */ NdrFcShort( 0x1 ), /* 1 */
/* 650 */ NdrFcShort( 0x0 ), /* 0 */
/* 652 */ NdrFcShort( 0x0 ), /* 0 */
/* 654 */ 0x12, 0x0, /* FC_UP */
/* 656 */ NdrFcShort( 0xfffffd4 ), /* Offset= -
44 (612) */
/* 658 */
0x5b, /*
FC_END */
0x0, /*
FC_LONG */
/* 660 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 662 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 664 */ NdrFcShort( 0x8 ), /* 8 */
/* 666 */ NdrFcShort( 0x0 ), /* 0 */
/* 668 */ NdrFcShort( 0x6 ), /* Offset= 6 (674) */
/* 670 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 672 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 674 */
0x11, 0x0, /*
FC_RP */
/* 676 */ NdrFcShort( 0xfffffd4 ), /* Offset= -
44 (632) */
/* 678 */
0x1d, /*
FC_SMPARRAY */
0x0, /*
0 */
/* 680 */ NdrFcShort( 0x8 ), /* 8 */
/* 682 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 684 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 686 */ NdrFcShort( 0x10 ), /* 16 */
/* 688 */ 0x8, /* FC_LONG */
0x6, /*
FC_SHORT */
/* 690 */ 0x6, /* FC_SHORT */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 692 */ 0x0, /* 0 */

```

```

NdrFcShort( 0xffffffff
), /* Offset= -15 (678) */
0x5b, /*
FC_END */
/* 696 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 698 */ NdrFcShort( 0x18 ), /* 24 */
/* 700 */ NdrFcShort( 0x0 ), /* 0 */
/* 702 */ NdrFcShort( 0xa ), /* Offset= 10 (712) */
/* 704 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 706 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 708 */ NdrFcShort( 0xfffffe8 ), /* Offset= -
24 (684) */
/* 710 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 712 */
0x11, 0x0, /*
FC_RP */
/* 714 */ NdrFcShort( 0xfffff0c ), /* Offset= -
244 (470) */
/* 716 */
0x1b, /*
FC_CARRAY */
0x0, /*
0 */
/* 718 */ NdrFcShort( 0x1 ), /* 1 */
/* 720 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 722 */ NdrFcShort( 0x0 ), /* 0 */
/* 724 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 726 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 728 */ NdrFcShort( 0x8 ), /* 8 */
/* 730 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 732 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 734 */ NdrFcShort( 0x4 ), /* 4 */
/* 736 */ NdrFcShort( 0x4 ), /* 4 */
/* 738 */ 0x12, 0x0, /* FC_UP */

```

```

/* 740 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (716) */
/* 742 */
FC_END */
0x5b, /*
FC_LONG */
/* 744 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 746 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 748 */ NdrFcShort( 0x2 ), /* 2 */
/* 750 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 752 */ NdrFcShort( 0x0 ), /* 0 */
/* 754 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 756 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 758 */ NdrFcShort( 0x8 ), /* 8 */
/* 760 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 762 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 764 */ NdrFcShort( 0x4 ), /* 4 */
/* 766 */ NdrFcShort( 0x4 ), /* 4 */
/* 768 */ 0x12, 0x0, /* FC_UP */
/* 770 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (746) */
/* 772 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 774 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 776 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 778 */ NdrFcShort( 0x4 ), /* 4 */
/* 780 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */

```

```

0x0, /*
*/
/* 782 */ NdrFcShort( 0x0 ), /* 0 */
/* 784 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 786 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 788 */ NdrFcShort( 0x8 ), /* 8 */
/* 790 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 792 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 794 */ NdrFcShort( 0x4 ), /* 4 */
/* 796 */ NdrFcShort( 0x4 ), /* 4 */
/* 798 */ 0x12, 0x0, /* FC_UP */
/* 800 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (776) */
/* 802 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 804 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 806 */
0x1b, /*
FC_CARRAY */
0x7, /*
7 */
/* 808 */ NdrFcShort( 0x8 ), /* 8 */
/* 810 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 812 */ NdrFcShort( 0x0 ), /* 0 */
/* 814 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 816 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 818 */ NdrFcShort( 0x8 ), /* 8 */
/* 820 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 822 */

```

```

0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 824 */ NdrFcShort( 0x4 ), /* 4 */
/* 826 */ NdrFcShort( 0x4 ), /* 4 */
/* 828 */ 0x12, 0x0, /* FC_UP */
/* 830 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (806) */
/* 832 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 834 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 836 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 838 */ NdrFcShort( 0x8 ), /* 8 */
/* 840 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 842 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 844 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 846 */ NdrFcShort( 0x8 ), /* 8 */
/* 848 */ 0x7, /* Corr desc: FC_USHORT
*/
0x0, /*
*/
/* 850 */ NdrFcShort( 0xfffd8 ), /* -40 */
/* 852 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 854 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
18 (836) */
/* 856 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 858 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 860 */ NdrFcShort( 0x28 ), /* 40 */
/* 862 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
18 (844) */
/* 864 */ NdrFcShort( 0x0 ), /* Offset= 0 (864) */
/* 866 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 868 */ 0x38, /* FC_ALIGN4 */

```

```

0x8, /*
FC_LONG */
/* 870 */ 0x8, /* FC_LONG */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 872 */ 0x0, /* 0 */
NdrFcShort( 0xfffffdf7
), /* Offset= -521 (352) */
0x5b, /*
FC_END */
/* 876 */
0x12, 0x0, /*
FC_UP */
/* 878 */ NdrFcShort( 0xfffffef6 ), /* Offset= -
266 (612) */
/* 880 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 882 */ 0x1, /* FC_BYTE */
0x5c, /*
FC_PAD */
/* 884 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 886 */ 0x6, /* FC_SHORT */
0x5c, /*
FC_PAD */
/* 888 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 890 */ 0x8, /* FC_LONG */
0x5c, /*
FC_PAD */
/* 892 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 894 */ 0xa, /* FC_FLOAT */
0x5c, /*
FC_PAD */
/* 896 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 898 */ 0xc, /* FC_DOUBLE */
0x5c, /*
FC_PAD */
/* 900 */
0x12, 0x0, /*
FC_UP */
/* 902 */ NdrFcShort( 0xfffffd90 ), /* Offset= -
624 (278) */
/* 904 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 906 */ NdrFcShort( 0xfffffd92 ), /* Offset= -
622 (284) */
/* 908 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 910 */ NdrFcShort( 0xfffffda6 ), /* Offset= -
602 (308) */
/* 912 */
0x12, 0x10, /*
FC_UP [pointer_deref] */

```

```

/* 914 */ NdrFcShort( 0xfffffdb4 ), /* Offset= -
588 (326) */
/* 916 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 918 */ NdrFcShort( 0xfffffdc2 ), /* Offset= -
574 (344) */
/* 920 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 922 */ NdrFcShort( 0x2 ), /* Offset= 2 (924) */
/* 924 */
0x12, 0x0, /*
FC_UP */
/* 926 */ NdrFcShort( 0x16 ), /* Offset= 22 (948) */
/* 928 */
0x15, /*
FC_STRUCT */
0x7, /*
7 */
/* 930 */ NdrFcShort( 0x10 ), /* 16 */
/* 932 */ 0x6, /* FC_SHORT */
0x1, /*
FC_BYTE */
/* 934 */ 0x1, /* FC_BYTE */
0x38, /*
FC_ALIGNM4 */
/* 936 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 938 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 940 */
0x12, 0x0, /*
FC_UP */
/* 942 */ NdrFcShort( 0xfffffff2 ), /* Offset= -
14 (928) */
/* 944 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 946 */ 0x2, /* FC_CHAR */
0x5c, /*
FC_PAD */
/* 948 */
0x1a, /*
FC_BOGUS_STRUCT */
0x7, /*
7 */
/* 950 */ NdrFcShort( 0x20 ), /* 32 */
/* 952 */ NdrFcShort( 0x0 ), /* 0 */
/* 954 */ NdrFcShort( 0x0 ), /* Offset= 0 (954) */
/* 956 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 958 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 960 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 962 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/

```

```

0x0, /*
0 */
/* 964 */ NdrFcShort( 0xfffffc42 ), /* Offset= -
958 (6) */
/* 966 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 968 */ 0xb4, /* FC_USER_MARSHAL */
0x83, /*
131 */
/* 970 */ NdrFcShort( 0x0 ), /* 0 */
/* 972 */ NdrFcShort( 0x10 ), /* 16 */
/* 974 */ NdrFcShort( 0x0 ), /* 0 */
/* 976 */ NdrFcShort( 0xfffffc32 ), /* Offset= -
974 (2) */
/* 978 */
0x11, 0x4, /*
FC_RP [allocated_on_stack] */
/* 980 */ NdrFcShort( 0x6 ), /* Offset= 6 (986) */
/* 982 */
0x13, 0x0, /*
FC_OP */
/* 984 */ NdrFcShort( 0xfffffcdc ), /* Offset= -
36 (948) */
/* 986 */ 0xb4, /* FC_USER_MARSHAL */
0x83, /*
131 */
/* 988 */ NdrFcShort( 0x0 ), /* 0 */
/* 990 */ NdrFcShort( 0x10 ), /* 16 */
/* 992 */ NdrFcShort( 0x0 ), /* 0 */
/* 994 */ NdrFcShort( 0xfffffff4 ), /* Offset= -
12 (982) */
0x0
}
};
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_AXP64) */

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

/* this ALWAYS GENERATED file contains the proxy stub
code */

/* File created by MIDL compiler version 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run,appending), 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_HEADER( )

#if defined(_M_IA64) || defined(_M_AXP64)
#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 979
#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;

extern const MIDL_TYPE_FORMAT_STRING
_MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
_MIDL_ProcFormatString;

/* 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={0xFEED6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

```

```

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
{
    0,
    44,
    88,
    132,
    176,
    220
};

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    _MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    _MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0
};

CINTERFACE_PROXY_VTABLE(9) _ITPCCProxyVtbl =
{
    &ITPCC_ProxyInfo,
    &IID_ITPCC,
    IUnknown_QueryInterface_Proxy,
    IUnknown_AddRef_Proxy,
    IUnknown_Release_Proxy ,
    (void *)-1 /* ITPCC::NewOrder */ ,
    (void *)-1 /* ITPCC::Payment */ ,
    (void *)-1 /* ITPCC::Delivery */ ,
    (void *)-1 /* ITPCC::StockLevel */ ,
    (void *)-1 /* ITPCC::OrderStatus */ ,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

```

```

static const MIDL_STUB_DESC Object_StubDesc =
{
0,
NdrOleAllocate,
NdrOleFree,
0,
0,
0,
0,
0,
0,
_MIDL_TypeFormatString.Format,
1, /* -error bounds_check flag */
0x50002, /* Ndr library version */
0,
0x5030118, /* MIDL Version 5.3.280 */
0,
UserMarshalRoutines,
0, /* notify & notify_flag routine table */
0x1, /* MIDL flag */
0, /* Reserved3 */
0, /* Reserved4 */
0 /* Reserved5 */
};

#pragma data_seg(".rdata")

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
{
{
VARIANT_UserSize
,VARIANT_UserMarshal
,VARIANT_UserUnmarshal
,VARIANT_UserFree
}
};

#if !defined(_RPC_WIN64_)
#error Invalid build platform for this stub.
#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 */
#ifdef _ALPHA_
/* 8 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else

```

```

NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 10 */ NdrFcShort( 0x0 ), /* 0 */
/* 12 */ NdrFcShort( 0x8 ), /* 8 */
/* 14 */ 0x47, /* Oi2 Flags: srv must
size, clt must size, has return, has ext, */
3 /*
/* 16 */ 0xa, /* 10 */
/* 18 */ 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, */
#ifdef _ALPHA_
/* 28 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 30 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 32 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef _ALPHA_
/* 34 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 36 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 38 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef _ALPHA_
/* 40 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifdef _ALPHA_
/* 52 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 54 */ NdrFcShort( 0x0 ), /* 0 */
/* 56 */ NdrFcShort( 0x8 ), /* 8 */
/* 58 */ 0x47, /* Oi2 Flags: srv must
size, clt must size, has return, has ext, */
3 /*
/* 60 */ 0xa, /* 10 */
/* 62 */ 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, */
#ifdef _ALPHA_
/* 72 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 74 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 76 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef _ALPHA_
/* 78 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 80 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 82 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef _ALPHA_

```

```

/* 84 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifndef ALPHA
/* 96 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifndef ALPHA
/* 116 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 118 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 120 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifndef ALPHA
/* 122 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else

```

```

NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 124 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 126 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef ALPHA
/* 128 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifndef ALPHA
/* 140 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifndef ALPHA
/* 160 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 162 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

```

```

/* Parameter txn_out */

/* 164 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifndef ALPHA
/* 166 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 168 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 170 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef ALPHA
/* 172 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifndef ALPHA
/* 184 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 204 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 206 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 208 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 210 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 212 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 214 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 216 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 218 */ 0x8, /* FC_LONG */
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, axp64 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, axp64 Stack
size/offset = 8 */
/* 250 */ 0x8, /* FC_LONG */
0 */

0 */

}

};

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
0,
{
NdrFcShort( 0x0 ), /*
0 */
/* 2 */
0x12, 0x0, /*
FC_UP */
/* 4 */ NdrFcShort( 0x39e ), /* Offset=
926 (930) */
/* 6 */
FC_NON_ENCAPSULATED_UNION */
0x9, /*
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( 0x2b ), /* 43 */
/* 20 */ NdrFcLong( 0x3 ), /* 3 */
/* 24 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 26 */ NdrFcLong( 0x11 ), /* 17 */
/* 30 */ NdrFcShort( 0x8001 ), /* Simple arm
type: FC_BYTE */
/* 32 */ NdrFcLong( 0x2 ), /* 2 */
/* 36 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 38 */ NdrFcLong( 0x4 ), /* 4 */
/* 42 */ NdrFcShort( 0x800a ), /* Simple arm
type: FC_FLOAT */
/* 44 */ NdrFcLong( 0x5 ), /* 5 */
/* 48 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 50 */ NdrFcLong( 0xb ), /* 11 */
/* 54 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 56 */ NdrFcLong( 0xa ), /* 10 */

```

```

/* 60 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 62 */ NdrFcLong( 0x6 ), /* 6 */
/* 66 */ NdrFcShort( 0xd6 ), /* Offset= 214 (280) */
/* 68 */ NdrFcLong( 0x7 ), /* 7 */
/* 72 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 74 */ NdrFcLong( 0x8 ), /* 8 */
/* 78 */ NdrFcShort( 0xd0 ), /* Offset= 208 (286) */
/* 80 */ NdrFcLong( 0xd ), /* 13 */
/* 84 */ NdrFcShort( 0xe4 ), /* Offset= 228 (312) */
/* 86 */ NdrFcLong( 0x9 ), /* 9 */
/* 90 */ NdrFcShort( 0xf0 ), /* Offset= 240 (330) */
/* 92 */ NdrFcLong( 0x2000 ), /* 8192 */
/* 96 */ NdrFcShort( 0xfc ), /* Offset= 252 (348) */
/* 98 */ NdrFcLong( 0x24 ), /* 36 */
/* 102 */ NdrFcShort( 0x2f4 ), /* Offset=
756 (858) */
/* 104 */ NdrFcLong( 0x4024 ), /* 16420 */
/* 108 */ NdrFcShort( 0x2ee ), /* Offset=
750 (858) */
/* 110 */ NdrFcLong( 0x4011 ), /* 16401 */
/* 114 */ NdrFcShort( 0x2ec ), /* Offset=
748 (862) */
/* 116 */ NdrFcLong( 0x4002 ), /* 16386 */
/* 120 */ NdrFcShort( 0x2ea ), /* Offset=
746 (866) */
/* 122 */ NdrFcLong( 0x4003 ), /* 16387 */
/* 126 */ NdrFcShort( 0x2e8 ), /* Offset=
744 (870) */
/* 128 */ NdrFcLong( 0x4004 ), /* 16388 */
/* 132 */ NdrFcShort( 0x2e6 ), /* Offset=
742 (874) */
/* 134 */ NdrFcLong( 0x4005 ), /* 16389 */
/* 138 */ NdrFcShort( 0x2e4 ), /* Offset=
740 (878) */
/* 140 */ NdrFcLong( 0x400b ), /* 16395 */
/* 144 */ NdrFcShort( 0x2d2 ), /* Offset=
722 (866) */
/* 146 */ NdrFcLong( 0x400a ), /* 16394 */
/* 150 */ NdrFcShort( 0x2d0 ), /* Offset=
720 (870) */
/* 152 */ NdrFcLong( 0x4006 ), /* 16390 */
/* 156 */ NdrFcShort( 0x2d6 ), /* Offset=
726 (882) */
/* 158 */ NdrFcLong( 0x4007 ), /* 16391 */
/* 162 */ NdrFcShort( 0x2cc ), /* Offset=
716 (878) */
/* 164 */ NdrFcLong( 0x4008 ), /* 16392 */
/* 168 */ NdrFcShort( 0x2ce ), /* Offset=
718 (886) */
/* 170 */ NdrFcLong( 0x400d ), /* 16397 */
/* 174 */ NdrFcShort( 0x2cc ), /* Offset=
716 (890) */
/* 176 */ NdrFcLong( 0x4009 ), /* 16393 */
/* 180 */ NdrFcShort( 0x2ca ), /* Offset=
714 (894) */
/* 182 */ NdrFcLong( 0x6000 ), /* 24576 */
/* 186 */ NdrFcShort( 0x2c8 ), /* Offset=
712 (898) */
/* 188 */ NdrFcLong( 0x400c ), /* 16396 */
/* 192 */ NdrFcShort( 0x2c6 ), /* Offset=
710 (902) */

```



```

/* 194 */ NdrFcLong( 0x10 ), /* 16 */
/* 198 */ NdrFcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 200 */ NdrFcLong( 0x12 ), /* 18 */
/* 204 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 206 */ NdrFcLong( 0x13 ), /* 19 */
/* 210 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 212 */ NdrFcLong( 0x16 ), /* 22 */
/* 216 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 218 */ NdrFcLong( 0x17 ), /* 23 */
/* 222 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 224 */ NdrFcLong( 0xe ), /* 14 */
/* 228 */ NdrFcShort( 0x2aa ), /* Offset=
682 (910) */
/* 230 */ NdrFcLong( 0x400e ), /* 16398 */
/* 234 */ NdrFcShort( 0x2b0 ), /* Offset=
688 (922) */
/* 236 */ NdrFcLong( 0x4010 ), /* 16400 */
/* 240 */ NdrFcShort( 0x2ae ), /* Offset=
686 (926) */
/* 242 */ NdrFcLong( 0x4012 ), /* 16402 */
/* 246 */ NdrFcShort( 0x26c ), /* Offset=
620 (866) */
/* 248 */ NdrFcLong( 0x4013 ), /* 16403 */
/* 252 */ NdrFcShort( 0x26a ), /* Offset=
618 (870) */
/* 254 */ NdrFcLong( 0x4016 ), /* 16406 */
/* 258 */ NdrFcShort( 0x264 ), /* Offset=
612 (870) */
/* 260 */ NdrFcLong( 0x4017 ), /* 16407 */
/* 264 */ NdrFcShort( 0x25e ), /* Offset=
606 (870) */
/* 266 */ NdrFcLong( 0x0 ), /* 0 */
/* 270 */ NdrFcShort( 0x0 ), /* Offset= 0 (270) */
/* 272 */ NdrFcLong( 0x1 ), /* 1 */
/* 276 */ NdrFcShort( 0x0 ), /* Offset= 0 (276) */
/* 278 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(277) */
/* 280 */
FC_STRUCT /*
0x15, /*
0x7, /*
7 */
/* 282 */ NdrFcShort( 0x8 ), /* 8 */
/* 284 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 286 */
0x12, 0x0, /*
FC_UP */
/* 288 */ NdrFcShort( 0xe ), /* Offset= 14 (302) */
/* 290 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 292 */ NdrFcShort( 0x2 ), /* 2 */
/* 294 */ 0x9, /* Corr desc: FC_ULONG
*/

```

```

0x0, /*
*/
/* 296 */ NdrFcShort( 0xfffc ), /* -4 */
/* 298 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 300 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 302 */
0x17, /*
FC_CSTRUCT */
0x3, /*
3 */
/* 304 */ NdrFcShort( 0x8 ), /* 8 */
/* 306 */ NdrFcShort( 0xffffffff0 ), /* Offset= -
16 (290) */
/* 308 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 310 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 312 */
0x2E, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 314 */ NdrFcLong( 0x0 ), /* 0 */
/* 318 */ NdrFcShort( 0x0 ), /* 0 */
/* 320 */ NdrFcShort( 0x0 ), /* 0 */
/* 322 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 324 */ 0x0, /* 0 */
0x0, /*
0 */
/* 326 */ 0x0, /* 0 */
0x0, /*
0 */
/* 328 */ 0x0, /* 0 */
0x46, /*
70 */
/* 330 */
0x2E, /*
0x5a, /*
FC_CONSTANT_IID */
/* 332 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 336 */ NdrFcShort( 0x0 ), /* 0 */
/* 338 */ NdrFcShort( 0x0 ), /* 0 */
/* 340 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 342 */ 0x0, /* 0 */
0x0, /*
0 */
/* 344 */ 0x0, /* 0 */
0x0, /*
0 */
/* 346 */ 0x0, /* 0 */
0x46, /*
70 */
/* 348 */

```

```

0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 350 */ NdrFcShort( 0x2 ), /* Offset= 2 (352) */
/* 352 */
0x12, 0x0, /*
FC_UP */
/* 354 */ NdrFcShort( 0x1e6 ), /* Offset=
486 (840) */
/* 356 */
0x2a, /*
FC_ENCAPSULATED_UNION */
0x89, /*
137 */
/* 358 */ NdrFcShort( 0x20 ), /* 32 */
/* 360 */ NdrFcShort( 0xa ), /* 10 */
/* 362 */ NdrFcLong( 0x8 ), /* 8 */
/* 366 */ NdrFcShort( 0x50 ), /* Offset= 80 (446) */
/* 368 */ NdrFcLong( 0xd ), /* 13 */
/* 372 */ NdrFcShort( 0x70 ), /* Offset= 112 (484) */
/* 374 */ NdrFcLong( 0x9 ), /* 9 */
/* 378 */ NdrFcShort( 0x90 ), /* Offset= 144 (522) */
/* 380 */ NdrFcLong( 0xc ), /* 12 */
/* 384 */ NdrFcShort( 0xb0 ), /* Offset= 176 (560) */
/* 386 */ NdrFcLong( 0x24 ), /* 36 */
/* 390 */ NdrFcShort( 0x104 ), /* Offset=
260 (650) */
/* 392 */ NdrFcLong( 0x800d ), /* 32781 */
/* 396 */ NdrFcShort( 0x120 ), /* Offset=
288 (684) */
/* 398 */ NdrFcLong( 0x10 ), /* 16 */
/* 402 */ NdrFcShort( 0x13a ), /* Offset=
314 (716) */
/* 404 */ NdrFcLong( 0x2 ), /* 2 */
/* 408 */ NdrFcShort( 0x150 ), /* Offset=
336 (744) */
/* 410 */ NdrFcLong( 0x3 ), /* 3 */
/* 414 */ NdrFcShort( 0x166 ), /* Offset=
358 (772) */
/* 416 */ NdrFcLong( 0x14 ), /* 20 */
/* 420 */ NdrFcShort( 0x17c ), /* Offset=
380 (800) */
/* 422 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(421) */
/* 424 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 426 */ NdrFcShort( 0x0 ), /* 0 */
/* 428 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 430 */ NdrFcShort( 0x0 ), /* 0 */
/* 432 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 434 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 438 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 440 */
0x12, 0x0, /*
FC_UP */
/* 442 */ NdrFcShort( 0xffffffff74 ), /* Offset= -
140 (302) */

```

```

/* 444 */ 0x5c,          /* FC_PAD */
FC_END */
/* 446 */
FC_BOGUS_STRUCT */
0x1a,
/*
3 */
/* 448 */ NdrPcShort( 0x10 ), /* 16 */
/* 450 */ NdrPcShort( 0x0 ), /* 0 */
/* 452 */ NdrPcShort( 0x6 ), /* Offset= 6 (458) */
/* 454 */ 0x8,          /* FC_LONG */
0x39,
/*
FC_ALIGNM8 */
/* 456 */ 0x36,        /* FC_POINTER */
0x5b,
/*
FC_END */
/* 458 */
0x11, 0x0,
/*
FC_RP */
/* 460 */ NdrPcShort( 0xfffff5dc ), /* Offset= -
36 (424) */
/* 462 */
0x21,
/*
FC_BOGUS_ARRAY */
0x3,
/*
3 */
/* 464 */ NdrPcShort( 0x0 ), /* 0 */
/* 466 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,
/*
*/
/* 468 */ NdrPcShort( 0x0 ), /* 0 */
/* 470 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 472 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 476 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 478 */ 0x4c,        /* FC_EMBEDDED_COMPLEX
*/
0x0,
/*
0 */
/* 480 */ NdrPcShort( 0xfffff58 ), /* Offset= -
168 (312) */
/* 482 */ 0x5c,        /* FC_PAD */
0x5b,
/*
FC_END */
/* 484 */
0x1a,
/*
FC_BOGUS_STRUCT */
0x3,
/*
3 */
/* 486 */ NdrPcShort( 0x10 ), /* 16 */
/* 488 */ NdrPcShort( 0x0 ), /* 0 */
/* 490 */ NdrPcShort( 0x6 ), /* Offset= 6 (496) */
/* 492 */ 0x8,        /* FC_LONG */
0x39,
/*
FC_ALIGNM8 */
/* 494 */ 0x36,        /* FC_POINTER */
0x5b,
/*
FC_END */
/* 496 */
0x11, 0x0,
/*
FC_RP */

```

```

/* 498 */ NdrPcShort( 0xfffff5dc ), /* Offset= -
36 (462) */
/* 500 */
0x21,
/*
FC_BOGUS_ARRAY */
0x3,
/*
3 */
/* 502 */ NdrPcShort( 0x0 ), /* 0 */
/* 504 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,
/*
*/
/* 506 */ NdrPcShort( 0x0 ), /* 0 */
/* 508 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 510 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 514 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 516 */ 0x4c,        /* FC_EMBEDDED_COMPLEX
*/
0x0,
/*
0 */
/* 518 */ NdrPcShort( 0xfffff44 ), /* Offset= -
188 (330) */
/* 520 */ 0x5c,        /* FC_PAD */
0x5b,
/*
FC_END */
/* 522 */
0x1a,
/*
FC_BOGUS_STRUCT */
0x3,
/*
3 */
/* 524 */ NdrPcShort( 0x10 ), /* 16 */
/* 526 */ NdrPcShort( 0x0 ), /* 0 */
/* 528 */ NdrPcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8,        /* FC_LONG */
0x39,
/*
FC_ALIGNM8 */
/* 532 */ 0x36,        /* FC_POINTER */
0x5b,
/*
FC_END */
/* 534 */
0x11, 0x0,
/*
FC_RP */
/* 536 */ NdrPcShort( 0xfffff5dc ), /* Offset= -
36 (500) */
/* 538 */
0x21,
/*
FC_BOGUS_ARRAY */
0x3,
/*
3 */
/* 540 */ NdrPcShort( 0x0 ), /* 0 */
/* 542 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,
/*
*/
/* 544 */ NdrPcShort( 0x0 ), /* 0 */
/* 546 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 548 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 552 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 554 */
0x12, 0x0,
/*
FC_UP */

```

```

/* 556 */ NdrPcShort( 0x176 ), /* Offset=
374 (930) */
/* 558 */ 0x5c,        /* FC_PAD */
0x5b,
/*
FC_END */
/* 560 */
0x1a,
/*
FC_BOGUS_STRUCT */
0x3,
/*
3 */
/* 562 */ NdrPcShort( 0x10 ), /* 16 */
/* 564 */ NdrPcShort( 0x0 ), /* 0 */
/* 566 */ NdrPcShort( 0x6 ), /* Offset= 6 (572) */
/* 568 */ 0x8,        /* FC_LONG */
0x39,
/*
FC_ALIGNM8 */
/* 570 */ 0x36,        /* FC_POINTER */
0x5b,
/*
FC_END */
/* 572 */
0x11, 0x0,
/*
FC_RP */
/* 574 */ NdrPcShort( 0xfffff5dc ), /* Offset= -
36 (538) */
/* 576 */
0x2f,
/*
FC_IP */
0x5a,
/*
FC_CONSTANT_IID */
/* 578 */ NdrPcLong( 0x2f ), /* 47 */
/* 582 */ NdrPcShort( 0x0 ), /* 0 */
/* 584 */ NdrPcShort( 0x0 ), /* 0 */
/* 586 */ 0xc0,        /* 192 */
0x0,
/*
0 */
/* 588 */ 0x0,        /* 0 */
0x0,
/*
0 */
/* 590 */ 0x0,        /* 0 */
0x0,
/*
0 */
/* 592 */ 0x0,        /* 0 */
0x46,
/*
70 */
/* 594 */
0x1b,
/*
FC_CARRAY */
0x0,
/*
0 */
/* 596 */ NdrPcShort( 0x1 ), /* 1 */
/* 598 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,
/*
*/
/* 600 */ NdrPcShort( 0x4 ), /* 4 */
/* 602 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 604 */ 0x1,        /* FC_BYTE */
0x5b,
/*
FC_END */
/* 606 */
0x1a,
/*
FC_BOGUS_STRUCT */

```

```

0x3, /*
3 */
/* 608 */ NdrFcShort( 0x18 ), /* 24 */
/* 610 */ NdrFcShort( 0x0 ), /* 0 */
/* 612 */ NdrFcShort( 0xc ), /* Offset= 12 (624) */
/* 614 */ 0x8, /* FC_LONG */
FC_LONG */
/* 616 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 618 */ NdrFcShort( 0xfffffd6 ), /* Offset= -
42 (576) */
/* 620 */ 0x39, /* FC_ALIGNM8 */
FC_POINTER */
/* 622 */ 0x5c, /* FC_PAD */
FC_END */
/* 624 */
0x12, 0x0, /*
FC_UP */
/* 626 */ NdrFcShort( 0xfffffe0 ), /* Offset= -
32 (594) */
/* 628 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 630 */ NdrFcShort( 0x0 ), /* 0 */
/* 632 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 634 */ NdrFcShort( 0x0 ), /* 0 */
/* 636 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 638 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 642 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 644 */
0x12, 0x0, /*
FC_UP */
/* 646 */ NdrFcShort( 0xfffffd8 ), /* Offset= -
40 (606) */
/* 648 */ 0x5c, /* FC_PAD */
FC_END */
/* 650 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 652 */ NdrFcShort( 0x10 ), /* 16 */
/* 654 */ NdrFcShort( 0x0 ), /* 0 */
/* 656 */ NdrFcShort( 0x6 ), /* Offset= 6 (662) */
/* 658 */ 0x8, /* FC_LONG */
FC_ALIGNM8 */
/* 660 */ 0x36, /* FC_POINTER */
FC_END */
/* 662 */

```

```

0x11, 0x0, /*
FC_RP */
/* 664 */ NdrFcShort( 0xfffffdc ), /* Offset= -
36 (628) */
/* 666 */
0x1d, /*
FC_SMPARRAY */
0x0, /*
0 */
/* 668 */ NdrFcShort( 0x8 ), /* 8 */
/* 670 */ 0x1, /* FC_BYTE */
FC_END */
/* 672 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 674 */ NdrFcShort( 0x10 ), /* 16 */
/* 676 */ 0x8, /* FC_LONG */
FC_SHORT */
/* 678 */ 0x6, /* FC_SHORT */
FC_EMBEDDED_COMPLEX */
/* 680 */ 0x0, /* 0 */
NdrFcShort( 0xffffff1
), /* Offset= -15 (666) */
FC_END */
/* 684 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 686 */ NdrFcShort( 0x20 ), /* 32 */
/* 688 */ NdrFcShort( 0x0 ), /* 0 */
/* 690 */ NdrFcShort( 0xa ), /* Offset= 10 (700) */
/* 692 */ 0x8, /* FC_LONG */
FC_ALIGNM8 */
/* 694 */ 0x36, /* FC_POINTER */
FC_EMBEDDED_COMPLEX */
/* 696 */ 0x0, /* 0 */
NdrFcShort( 0xfffffe7
), /* Offset= -25 (672) */
FC_END */
/* 700 */
0x11, 0x0, /*
FC_RP */
/* 702 */ NdrFcShort( 0xffffff10 ), /* Offset= -
240 (462) */
/* 704 */
0x1b, /*
FC_CARRAY */
0x0, /*
0 */
/* 706 */ NdrFcShort( 0x1 ), /* 1 */
/* 708 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */

```

```

0x0, /*
*/
/* 710 */ NdrFcShort( 0x0 ), /* 0 */
/* 712 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 714 */ 0x1, /* FC_BYTE */
FC_END */
/* 716 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 718 */ NdrFcShort( 0x10 ), /* 16 */
/* 720 */ NdrFcShort( 0x0 ), /* 0 */
/* 722 */ NdrFcShort( 0x6 ), /* Offset= 6 (728) */
/* 724 */ 0x8, /* FC_LONG */
FC_ALIGNM8 */
/* 726 */ 0x36, /* FC_POINTER */
FC_END */
/* 728 */
0x12, 0x0, /*
FC_UP */
/* 730 */ NdrFcShort( 0xfffffe6 ), /* Offset= -
26 (704) */
/* 732 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 734 */ NdrFcShort( 0x2 ), /* 2 */
/* 736 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 738 */ NdrFcShort( 0x0 ), /* 0 */
/* 740 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 742 */ 0x6, /* FC_SHORT */
FC_END */
/* 744 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 746 */ NdrFcShort( 0x10 ), /* 16 */
/* 748 */ NdrFcShort( 0x0 ), /* 0 */
/* 750 */ NdrFcShort( 0x6 ), /* Offset= 6 (756) */
/* 752 */ 0x8, /* FC_LONG */
FC_ALIGNM8 */
/* 754 */ 0x36, /* FC_POINTER */
FC_END */
/* 756 */
0x12, 0x0, /*
FC_UP */
/* 758 */ NdrFcShort( 0xfffffe6 ), /* Offset= -
26 (732) */
/* 760 */

```

```

0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 762 */ NdrFcShort( 0x4 ), /* 4 */
/* 764 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 766 */ NdrFcShort( 0x0 ), /* 0 */
/* 768 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 770 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 772 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 774 */ NdrFcShort( 0x10 ), /* 16 */
/* 776 */ NdrFcShort( 0x0 ), /* 0 */
/* 778 */ NdrFcShort( 0x6 ), /* Offset= 6 (784) */
/* 780 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 782 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 784 */
0x12, 0x0, /*
FC_UP */
/* 786 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (760) */
/* 788 */
0x1b, /*
FC_CARRAY */
0x7, /*
7 */
/* 790 */ NdrFcShort( 0x8 ), /* 8 */
/* 792 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 794 */ NdrFcShort( 0x0 ), /* 0 */
/* 796 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 798 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 800 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 802 */ NdrFcShort( 0x10 ), /* 16 */
/* 804 */ NdrFcShort( 0x0 ), /* 0 */
/* 806 */ NdrFcShort( 0x6 ), /* Offset= 6 (812) */
/* 808 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 810 */ 0x36, /* FC_POINTER */

```

```

0x5b, /*
FC_END */
/* 812 */
0x12, 0x0, /*
FC_UP */
/* 814 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (788) */
/* 816 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 818 */ NdrFcShort( 0x8 ), /* 8 */
/* 820 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 822 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 824 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 826 */ NdrFcShort( 0x8 ), /* 8 */
/* 828 */ 0x7, /* Corr desc: FC_USHORT
*/
0x0, /*
*/
/* 830 */ NdrFcShort( 0xffc8 ), /* -56 */
/* 832 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 834 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 836 */ NdrFcShort( 0xffffffffec ), /* Offset= -
20 (816) */
/* 838 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 840 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 842 */ NdrFcShort( 0x38 ), /* 56 */
/* 844 */ NdrFcShort( 0xffffffffec ), /* Offset= -
20 (824) */
/* 846 */ NdrFcShort( 0x0 ), /* Offset= 0 (846) */
/* 848 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 850 */ 0x38, /* FC_ALIGNM4 */
0x8, /*
FC_LONG */
/* 852 */ 0x8, /* FC_LONG */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 854 */ 0x4, /* 4 */
NdrFcShort( 0xfffffe0d
), /* Offset= -499 (356) */

```

```

0x5b, /*
FC_END */
/* 858 */
0x12, 0x0, /*
FC_UP */
/* 860 */ NdrFcShort( 0xffffffff02 ), /* Offset= -
254 (606) */
/* 862 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 864 */ 0x1, /* FC_BYTE */
0x5c, /*
FC_PAD */
/* 866 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 868 */ 0x6, /* FC_SHORT */
0x5c, /*
FC_PAD */
/* 870 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 872 */ 0x8, /* FC_LONG */
0x5c, /*
FC_PAD */
/* 874 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 876 */ 0xa, /* FC_FLOAT */
0x5c, /*
FC_PAD */
/* 878 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 880 */ 0xc, /* FC_DOUBLE */
0x5c, /*
FC_PAD */
/* 882 */
0x12, 0x0, /*
FC_UP */
/* 884 */ NdrFcShort( 0xfffffda4 ), /* Offset= -
604 (280) */
/* 886 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 888 */ NdrFcShort( 0xfffffda6 ), /* Offset= -
602 (286) */
/* 890 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 892 */ NdrFcShort( 0xfffffdbc ), /* Offset= -
580 (312) */
/* 894 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 896 */ NdrFcShort( 0xfffffdca ), /* Offset= -
566 (330) */
/* 898 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 900 */ NdrFcShort( 0xfffffdd8 ), /* Offset= -
552 (348) */
/* 902 */

```

```

                                0x12, 0x10,    /*
FC_UP [pointer_deref] */
/* 904 */ NdrPcShort( 0x2 ), /* Offset= 2 (906) */
/* 906 */
                                0x12, 0x0,    /*
FC_UP */
/* 908 */ NdrPcShort( 0x16 ), /* Offset= 22 (930) */
/* 910 */
                                0x15,        /*
FC_STRUCT */
                                0x7,        /*
7 */
/* 912 */ NdrPcShort( 0x10 ), /* 16 */
/* 914 */ 0x6, /* FC_SHORT */
                                0x1,        /*
FC_BYTE */
/* 916 */ 0x1, /* FC_BYTE */
                                0x38,      /*
FC_ALIGNM4 */
/* 918 */ 0x8, /* FC_LONG */
                                0x39,      /*
FC_ALIGNM8 */
/* 920 */ 0xb, /* FC_HYPER */
                                0x5b,      /*
FC_END */
/* 922 */
                                0x12, 0x0,    /*
FC_UP */
/* 924 */ NdrPcShort( 0xffffffff2 ), /* Offset= -
14 (910) */
/* 926 */
                                0x12, 0x8,    /*
FC_UP [simple_pointer] */
/* 928 */ 0x2, /* FC_CHAR */
                                0x5c,      /*
FC_PAD */
/* 930 */
                                0x1a,        /*
FC_BOGUS_STRUCT */
                                0x7,        /*
7 */
/* 932 */ NdrPcShort( 0x20 ), /* 32 */
/* 934 */ NdrPcShort( 0x0 ), /* 0 */
/* 936 */ NdrPcShort( 0x0 ), /* Offset= 0 (936) */
/* 938 */ 0x8, /* FC_LONG */
                                0x8,        /*
FC_LONG */
/* 940 */ 0x6, /* FC_SHORT */
                                0x6,        /*
FC_SHORT */
/* 942 */ 0x6, /* FC_SHORT */
                                0x6,        /*
FC_SHORT */
/* 944 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
                                0x0,        /*
0 */
/* 946 */ NdrPcShort( 0xfffffc54 ), /* Offset= -
940 (6) */
/* 948 */ 0x5c, /* FC_PAD */
                                0x5b,      /*
FC_END */
/* 950 */ 0xb4, /* FC_USER_MARSHAL */

```

```

                                0x83,        /*
131 */
/* 952 */ NdrPcShort( 0x0 ), /* 0 */
/* 954 */ NdrPcShort( 0x18 ), /* 24 */
/* 956 */ NdrPcShort( 0x0 ), /* 0 */
/* 958 */ NdrPcShort( 0xfffffc44 ), /* Offset= -
956 (2) */
/* 960 */
                                0x11, 0x4,    /*
FC_RP [allocated_on_stack] */
/* 962 */ NdrPcShort( 0x6 ), /* Offset= 6 (968) */
/* 964 */
                                0x13, 0x0,    /*
FC_OP */
/* 966 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (930) */
/* 968 */ 0xb4, /* FC_USER_MARSHAL */
                                0x83,      /*
131 */
/* 970 */ NdrPcShort( 0x0 ), /* 0 */
/* 972 */ NdrPcShort( 0x18 ), /* 24 */
/* 974 */ NdrPcShort( 0x0 ), /* 0 */
/* 976 */ NdrPcShort( 0xfffffff4 ), /* Offset= -
12 (964) */
                                0x0
                                };
const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    ( CInterfaceProxyVtbl *) &ITPCCProxyVtbl,
    0
};
const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    ( CInterfaceStubVtbl *) &ITPCCStubVtbl,
    0
};
PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};
#define _tpcc_com_ps_CHECK_IID(n)
IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)
int _stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{
    if( !_tpcc_com_ps_CHECK_IID(0) )
    {
        *pIndex = 0;
        return 1;
    }
}

```

```

    }
    return 0;
}
const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,
    (PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
    (const PCInterfaceName *) &
_tpcc_com_ps_InterfaceNamesList,
    0, // no delegation
    &_tpcc_com_ps_IID_Lookup,
    1,
    2,
    0, /* table of [async_uuid] interfaces */
    0, /* Filler1 */
    0, /* Filler2 */
    0 /* Filler3 */
};
#endif /* defined(_M_IA64) || defined(_M_AXP64) */

```

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 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=12), Wl, Zp8, env=Win32 (32b run),
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_AXP64)
#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 997
#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;

extern const MIDL_TYPE_FORMAT_STRING
_MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
_MIDL_ProcFormatString;

/* 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={0xFEED6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

#pragma code_seg(".orpc")

```

```

static const unsigned short
ITPCC_FormatStringOffsetTable =
{
    0,
    34,
    68,
    102,
    136,
    170
};

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    _MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    _MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0
};

CINTERFACE_PROXY_VTABLE(9) _ITPCCProxyVtbl =
{
    &ITPCC_ProxyInfo,
    &IID_ITPCC,
    IUnknown_QueryInterface_Proxy,
    IUnknown_AddRef_Proxy,
    IUnknown_Release_Proxy ,
    (void *)-1 /* ITPCC::NewOrder */ ,
    (void *)-1 /* ITPCC::Payment */ ,
    (void *)-1 /* ITPCC::Delivery */ ,
    (void *)-1 /* ITPCC::StockLevel */ ,
    (void *)-1 /* ITPCC::OrderStatus */ ,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

static const MIDL_STUB_DESC Object_StubDesc =
{

```

```

0,
NdrOleAllocate,
NdrOleFree,
0,
0,
0,
0,
0,
0,
0,
0,
_MIDL_TypeFormatString.Format,
1, /* -error bounds_check flag */
0x20000, /* Ndr library version */
0,
0x5030118, /* MIDL Version 5.3.280 */
0,
UserMarshalRoutines,
0, /* notify & notify_flag routine table */
0x1, /* MIDL flag */
0, /* Reserved3 */
0, /* Reserved4 */
0 /* Reserved5 */
};

#pragma data_seg(".rdata")

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
{
    {
        VARIANT_UserSize
        ,VARIANT_UserMarshal
        ,VARIANT_UserUnmarshal
        ,VARIANT_UserFree
    }
};

#if !defined( _RPC_WIN32_ )
#error Invalid build platform for this stub.
#endif

#if !(TARGET_IS_NT40_OR_LATER)
#error You need a Windows NT 4.0 or later to run this
stub because it uses these features:
#error -Oif or -Oicf, [wire_marshal] or
[user_marshal] attribute.
#error However, your C/C++ compilation flags indicate
you intend to run this app on earlier systems.
#error This app will die there with the
RPC_X_WRONG_STUB_VERSION error.
#endif

static const MIDL_PROC_FORMAT_STRING
_MIDL_ProcFormatString =
{
    0,
    {
        /* Procedure NewOrder */

```

```

                                0x33,          /*
FC_AUTO_HANDLE */
                                0x6c,          /*
Old Flags:  object, Oi2 */
/* 2 */ NdrFcLong( 0x0 ), /* 0 */
/* 6 */ NdrFcShort( 0x3 ), /* 3 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 8 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 18 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 20 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 22 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)

```

```

/* 24 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
                                NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 26 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 28 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 30 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
                                NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 42 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif

```

```

                                NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 52 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 54 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 56 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 58 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
                                NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 60 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 62 */ NdrFcShort( 0x70 ), /* Flags:  out, return,
base type, */

```

```

#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 64 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 76 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 86 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else

```

```

NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 88 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 90 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 92 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 94 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 96 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 98 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 110 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 120 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 122 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 124 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_

```



```

#if !defined(_MIPS_)
/* 126 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 128 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 130 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 132 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 144 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#endif

```

```

#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 154 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 156 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 158 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 160 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 162 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

```

```

/* 164 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 166 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
/* 178 */ NdrFcShort( 0x8 ), /* x86, MIPS, PPC Stack
size/offset = 8 */
#else
NdrFcShort( 0x10 ), /*
Alpha Stack size/offset = 16 */
#endif
/* 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, */
#ifndef _ALPHA_
/* 188 */ NdrFcShort( 0x4 ), /* x86, MIPS, PPC Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 190 */ 0x8, /* FC_LONG */
0x0, /*
0 */

0x0

};

```

```

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
    0,
    {
        0 /*
        /* 2 */
        FC_UP /*
        /* 4 */ NdrPcShort( 0x3b0 ), /* Offset=
        944 (948) */
        /* 6 */
        FC_NON_ENCAPSULATED_UNION /*
        /* 8 */ 0x7, /* Corr desc: FC_USHORT
        */
        /* 10 */ NdrPcShort( 0xffff8 ), /* -8 */
        /* 12 */ NdrPcShort( 0x2 ), /* Offset= 2 (14) */
        /* 14 */ NdrPcShort( 0x10 ), /* 16 */
        /* 16 */ NdrPcShort( 0x2b ), /* 43 */
        /* 18 */ NdrPcLong( 0x3 ), /* 3 */
        /* 22 */ NdrPcShort( 0x8008 ), /* Simple arm
        type: FC_LONG */
        /* 24 */ NdrPcLong( 0x11 ), /* 17 */
        /* 28 */ NdrPcShort( 0x8001 ), /* Simple arm
        type: FC_BYTE */
        /* 30 */ NdrPcLong( 0x2 ), /* 2 */
        /* 34 */ NdrPcShort( 0x8006 ), /* Simple arm
        type: FC_SHORT */
        /* 36 */ NdrPcLong( 0x4 ), /* 4 */
        /* 40 */ NdrPcShort( 0x800a ), /* Simple arm
        type: FC_FLOAT */
        /* 42 */ NdrPcLong( 0x5 ), /* 5 */
        /* 46 */ NdrPcShort( 0x800c ), /* Simple arm
        type: FC_DOUBLE */
        /* 48 */ NdrPcLong( 0xb ), /* 11 */
        /* 52 */ NdrPcShort( 0x8006 ), /* Simple arm
        type: FC_SHORT */
        /* 54 */ NdrPcLong( 0xa ), /* 10 */
        /* 58 */ NdrPcShort( 0x8008 ), /* Simple arm
        type: FC_LONG */
        /* 60 */ NdrPcLong( 0x6 ), /* 6 */
        /* 64 */ NdrPcShort( 0xd6 ), /* Offset= 214 (278) */
        /* 66 */ NdrPcLong( 0x7 ), /* 7 */
        /* 70 */ NdrPcShort( 0x800c ), /* Simple arm
        type: FC_DOUBLE */
        /* 72 */ NdrPcLong( 0x8 ), /* 8 */
        /* 76 */ NdrPcShort( 0xd0 ), /* Offset= 208 (284) */
        /* 78 */ NdrPcLong( 0xd ), /* 13 */
        /* 82 */ NdrPcShort( 0xe2 ), /* Offset= 226 (308) */
        /* 84 */ NdrPcLong( 0x9 ), /* 9 */
        /* 88 */ NdrPcShort( 0xee ), /* Offset= 238 (326) */
        /* 90 */ NdrPcLong( 0x2000 ), /* 8192 */
        /* 94 */ NdrPcShort( 0xfa ), /* Offset= 250 (344) */
        /* 96 */ NdrPcLong( 0x24 ), /* 36 */
        /* 100 */ NdrPcShort( 0x308 ), /* Offset=
        776 (876) */
        /* 102 */ NdrPcLong( 0x4024 ), /* 16420 */

```

```

/* 106 */ NdrPcShort( 0x302 ), /* Offset=
770 (876) */
/* 108 */ NdrPcLong( 0x4011 ), /* 16401 */
/* 112 */ NdrPcShort( 0x300 ), /* Offset=
768 (880) */
/* 114 */ NdrPcLong( 0x4002 ), /* 16386 */
/* 118 */ NdrPcShort( 0x2fe ), /* Offset=
766 (884) */
/* 120 */ NdrPcLong( 0x4003 ), /* 16387 */
/* 124 */ NdrPcShort( 0x2fc ), /* Offset=
764 (888) */
/* 126 */ NdrPcLong( 0x4004 ), /* 16388 */
/* 130 */ NdrPcShort( 0x2fa ), /* Offset=
762 (892) */
/* 132 */ NdrPcLong( 0x4005 ), /* 16389 */
/* 136 */ NdrPcShort( 0x2f8 ), /* Offset=
760 (896) */
/* 138 */ NdrPcLong( 0x400b ), /* 16395 */
/* 142 */ NdrPcShort( 0x2e6 ), /* Offset=
742 (884) */
/* 144 */ NdrPcLong( 0x400a ), /* 16394 */
/* 148 */ NdrPcShort( 0x2e4 ), /* Offset=
740 (888) */
/* 150 */ NdrPcLong( 0x4006 ), /* 16390 */
/* 154 */ NdrPcShort( 0x2ea ), /* Offset=
746 (900) */
/* 156 */ NdrPcLong( 0x4007 ), /* 16391 */
/* 160 */ NdrPcShort( 0x2e0 ), /* Offset=
736 (896) */
/* 162 */ NdrPcLong( 0x4008 ), /* 16392 */
/* 166 */ NdrPcShort( 0x2e2 ), /* Offset=
738 (904) */
/* 168 */ NdrPcLong( 0x400d ), /* 16397 */
/* 172 */ NdrPcShort( 0x2e0 ), /* Offset=
736 (908) */
/* 174 */ NdrPcLong( 0x4009 ), /* 16393 */
/* 178 */ NdrPcShort( 0x2de ), /* Offset=
734 (912) */
/* 180 */ NdrPcLong( 0x6000 ), /* 24576 */
/* 184 */ NdrPcShort( 0x2dc ), /* Offset=
732 (916) */
/* 186 */ NdrPcLong( 0x400c ), /* 16396 */
/* 190 */ NdrPcShort( 0x2da ), /* Offset=
730 (920) */
/* 192 */ NdrPcLong( 0x10 ), /* 16 */
/* 196 */ NdrPcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 198 */ NdrPcLong( 0x12 ), /* 18 */
/* 202 */ NdrPcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 204 */ NdrPcLong( 0x13 ), /* 19 */
/* 208 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 210 */ NdrPcLong( 0x16 ), /* 22 */
/* 214 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 216 */ NdrPcLong( 0x17 ), /* 23 */
/* 220 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 222 */ NdrPcLong( 0xe ), /* 14 */
/* 226 */ NdrPcShort( 0x2be ), /* Offset=
702 (928) */
/* 228 */ NdrPcLong( 0x400e ), /* 16398 */

```

```

/* 232 */ NdrPcShort( 0x2c4 ), /* Offset=
708 (940) */
/* 234 */ NdrPcLong( 0x4010 ), /* 16400 */
/* 238 */ NdrPcShort( 0x2c2 ), /* Offset=
706 (944) */
/* 240 */ NdrPcLong( 0x4012 ), /* 16402 */
/* 244 */ NdrPcShort( 0x280 ), /* Offset=
640 (884) */
/* 246 */ NdrPcLong( 0x4013 ), /* 16403 */
/* 250 */ NdrPcShort( 0x27e ), /* Offset=
638 (888) */
/* 252 */ NdrPcLong( 0x4016 ), /* 16406 */
/* 256 */ NdrPcShort( 0x278 ), /* Offset=
632 (888) */
/* 258 */ NdrPcLong( 0x4017 ), /* 16407 */
/* 262 */ NdrPcShort( 0x272 ), /* Offset=
626 (888) */
/* 264 */ NdrPcLong( 0x0 ), /* 0 */
/* 268 */ NdrPcShort( 0x0 ), /* Offset= 0 (268) */
/* 270 */ NdrPcLong( 0x1 ), /* 1 */
/* 274 */ NdrPcShort( 0x0 ), /* Offset= 0 (274) */
/* 276 */ NdrPcShort( 0xffffffff ), /* Offset= -1
(275) */
/* 278 */
FC_STRUCT /*
/* 280 */ NdrPcShort( 0x8 ), /* 8 */
/* 282 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 284 */
0x12, 0x0, /*
FC_UP */
/* 286 */ NdrPcShort( 0xc ), /* Offset= 12 (298) */
/* 288 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 290 */ NdrPcShort( 0x2 ), /* 2 */
/* 292 */ 0x9, /* Corr desc: FC_ULONG
*/
0x0, /*
*/
/* 294 */ NdrPcShort( 0xfffc ), /* -4 */
/* 296 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 298 */
0x17, /*
FC_CSTRUCT */
0x3, /*
3 */
/* 300 */ NdrPcShort( 0x8 ), /* 8 */
/* 302 */ NdrPcShort( 0xffffffff2 ), /* Offset= -
14 (288) */
/* 304 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 306 */ 0x5c, /* FC_PAD */

```

```

0x5b, /*
FC_END */
/* 308 */
0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 310 */ NdrFcLong( 0x0 ), /* 0 */
/* 314 */ NdrFcShort( 0x0 ), /* 0 */
/* 316 */ NdrFcShort( 0x0 ), /* 0 */
/* 318 */ 0xc0, /* 192 */
0, /*
/* 320 */ 0x0, /* 0 */
0, /*
/* 322 */ 0x0, /* 0 */
0, /*
/* 324 */ 0x0, /* 0 */
70, /*
/* 326 */
0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 328 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 332 */ NdrFcShort( 0x0 ), /* 0 */
/* 334 */ NdrFcShort( 0x0 ), /* 0 */
/* 336 */ 0xc0, /* 192 */
0, /*
/* 338 */ 0x0, /* 0 */
0, /*
/* 340 */ 0x0, /* 0 */
0, /*
/* 342 */ 0x0, /* 0 */
70, /*
/* 344 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 346 */ NdrFcShort( 0x2 ), /* Offset= 2 (348) */
/* 348 */
0x12, 0x0, /*
FC_UP */
/* 350 */ NdrFcShort( 0x1fc ), /* Offset=
508 (858) */
/* 352 */
0x2a, /*
FC_ENCAPSULATED_UNION */
0x49, /*
73 */
/* 354 */ NdrFcShort( 0x18 ), /* 24 */
/* 356 */ NdrFcShort( 0xa ), /* 10 */
/* 358 */ NdrFcLong( 0x8 ), /* 8 */
/* 362 */ NdrFcShort( 0x58 ), /* Offset= 88 (450) */
/* 364 */ NdrFcLong( 0xd ), /* 13 */
/* 368 */ NdrFcShort( 0x78 ), /* Offset= 120 (488) */
/* 370 */ NdrFcLong( 0x9 ), /* 9 */

```

```

/* 374 */ NdrFcShort( 0x94 ), /* Offset= 148 (522) */
/* 376 */ NdrFcLong( 0xc ), /* 12 */
/* 380 */ NdrFcShort( 0xbc ), /* Offset= 188 (568) */
/* 382 */ NdrFcLong( 0x24 ), /* 36 */
/* 386 */ NdrFcShort( 0x114 ), /* Offset=
276 (662) */
/* 388 */ NdrFcLong( 0x800d ), /* 32781 */
/* 392 */ NdrFcShort( 0x130 ), /* Offset=
304 (696) */
/* 394 */ NdrFcLong( 0x10 ), /* 16 */
/* 398 */ NdrFcShort( 0x148 ), /* Offset=
328 (726) */
/* 400 */ NdrFcLong( 0x2 ), /* 2 */
/* 404 */ NdrFcShort( 0x160 ), /* Offset=
352 (756) */
/* 406 */ NdrFcLong( 0x3 ), /* 3 */
/* 410 */ NdrFcShort( 0x178 ), /* Offset=
376 (786) */
/* 412 */ NdrFcLong( 0x14 ), /* 20 */
/* 416 */ NdrFcShort( 0x190 ), /* Offset=
400 (816) */
/* 418 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(417) */
/* 420 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 422 */ NdrFcShort( 0x4 ), /* 4 */
/* 424 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 426 */ NdrFcShort( 0x0 ), /* 0 */
/* 428 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 430 */
0x48, /*
FC_VARIABLE_REPEAT */
0x49, /*
FC_FIXED_OFFSET */
/* 432 */ NdrFcShort( 0x4 ), /* 4 */
/* 434 */ NdrFcShort( 0x0 ), /* 0 */
/* 436 */ NdrFcShort( 0x1 ), /* 1 */
/* 438 */ NdrFcShort( 0x0 ), /* 0 */
/* 440 */ NdrFcShort( 0x0 ), /* 0 */
/* 442 */ 0x12, 0x0, /* FC_UP */
/* 444 */ NdrFcShort( 0xffffffff6e ), /* Offset= -
146 (298) */
/* 446 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 448 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 450 */

```

```

0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 452 */ NdrFcShort( 0x8 ), /* 8 */
/* 454 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 456 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 458 */ NdrFcShort( 0x4 ), /* 4 */
/* 460 */ NdrFcShort( 0x4 ), /* 4 */
/* 462 */ 0x11, 0x0, /* FC_RP */
/* 464 */ NdrFcShort( 0xffffffffd4 ), /* Offset= -
44 (420) */
/* 466 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 468 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 470 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 472 */ NdrFcShort( 0x0 ), /* 0 */
/* 474 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 476 */ NdrFcShort( 0x0 ), /* 0 */
/* 478 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 482 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 484 */ NdrFcShort( 0xffffffff50 ), /* Offset= -
176 (308) */
/* 486 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 488 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 490 */ NdrFcShort( 0x8 ), /* 8 */
/* 492 */ NdrFcShort( 0x0 ), /* 0 */
/* 494 */ NdrFcShort( 0x6 ), /* Offset= 6 (500) */
/* 496 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 498 */ 0x5c, /* FC_PAD */

```

```

                                0x5b,          /*
FC_END */
/* 500 */
                                0x11, 0x0,      /*
FC_RP */
/* 502 */ NdrFcShort( 0xffffffe0 ), /* Offset= -
32 (470) */
/* 504 */
                                0x21,          /*
FC_BOGUS_ARRAY */
3 */
/* 506 */ NdrFcShort( 0x0 ), /* 0 */
/* 508 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 510 */ NdrFcShort( 0x0 ), /* 0 */
/* 512 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
                                0x0,          /*
0 */
/* 518 */ NdrFcShort( 0xffffff40 ), /* Offset= -
192 (326) */
/* 520 */ 0x5c, /* FC_PAD */
                                0x5b,          /*
FC_END */
/* 522 */
                                0x1a,          /*
FC_BOGUS_STRUCT */
3 */
/* 524 */ NdrFcShort( 0x8 ), /* 8 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
                                0x36,          /*
FC_POINTER */
/* 532 */ 0x5c, /* FC_PAD */
                                0x5b,          /*
FC_END */
/* 534 */
                                0x11, 0x0,      /*
FC_RP */
/* 536 */ NdrFcShort( 0xffffffe0 ), /* Offset= -
32 (504) */
/* 538 */
                                0x1b,          /*
FC_CARRAY */
3 */
/* 540 */ NdrFcShort( 0x4 ), /* 4 */
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 544 */ NdrFcShort( 0x0 ), /* 0 */
/* 546 */
                                0x4b,          /*
FC_PP */
                                0x5c,          /*
FC_PAD */

```

```

/* 548 */
FC_VARIABLE_REPEAT */
                                0x48,          /*
*/
                                0x49,          /*
FC_FIXED_OFFSET */
/* 550 */ NdrFcShort( 0x4 ), /* 4 */
/* 552 */ NdrFcShort( 0x0 ), /* 0 */
/* 554 */ NdrFcShort( 0x1 ), /* 1 */
/* 556 */ NdrFcShort( 0x0 ), /* 0 */
/* 558 */ NdrFcShort( 0x0 ), /* 0 */
/* 560 */ 0x12, 0x0, /* FC_UP */
/* 562 */ NdrFcShort( 0x182 ), /* Offset=
386 (948) */
/* 564 */
                                0x5b,          /*
FC_END */
                                0x8,          /*
FC_LONG */
/* 566 */ 0x5c, /* FC_PAD */
                                0x5b,          /*
FC_END */
/* 568 */
                                0x1a,          /*
FC_BOGUS_STRUCT */
3 */
/* 570 */ NdrFcShort( 0x8 ), /* 8 */
/* 572 */ NdrFcShort( 0x0 ), /* 0 */
/* 574 */ NdrFcShort( 0x6 ), /* Offset= 6 (580) */
/* 576 */ 0x8, /* FC_LONG */
                                0x36,          /*
FC_POINTER */
/* 578 */ 0x5c, /* FC_PAD */
                                0x5b,          /*
FC_END */
/* 580 */
                                0x11, 0x0,      /*
FC_RP */
/* 582 */ NdrFcShort( 0xffffffd4 ), /* Offset= -
44 (538) */
/* 584 */
                                0x2f,          /*
FC_IP */
                                0x5a,          /*
FC_CONSTANT_IID */
/* 586 */ NdrFcLong( 0x2f ), /* 47 */
/* 590 */ NdrFcShort( 0x0 ), /* 0 */
/* 592 */ NdrFcShort( 0x0 ), /* 0 */
/* 594 */ 0xc0, /* 192 */
                                0x0,          /*
0 */
/* 596 */ 0x0, /* 0 */
                                0x0,          /*
0 */
/* 598 */ 0x0, /* 0 */
                                0x0,          /*
0 */
/* 600 */ 0x0, /* 0 */
                                0x46,          /*
70 */
/* 602 */

```

```

                                0x1b,          /*
FC_CARRAY */
                                0x0,          /*
0 */
/* 604 */ NdrFcShort( 0x1 ), /* 1 */
/* 606 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 608 */ NdrFcShort( 0x4 ), /* 4 */
/* 610 */ 0x1, /* FC_BYTE */
                                0x5b,          /*
FC_END */
/* 612 */
                                0x1a,          /*
FC_BOGUS_STRUCT */
3 */
/* 614 */ NdrFcShort( 0x10 ), /* 16 */
/* 616 */ NdrFcShort( 0x0 ), /* 0 */
/* 618 */ NdrFcShort( 0xa ), /* Offset= 10 (628) */
/* 620 */ 0x8, /* FC_LONG */
                                0x8,          /*
FC_LONG */
/* 622 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
                                0x0,          /*
0 */
/* 624 */ NdrFcShort( 0xffffffd8 ), /* Offset= -
40 (584) */
/* 626 */ 0x36, /* FC_POINTER */
                                0x5b,          /*
FC_END */
/* 628 */
                                0x12, 0x0,      /*
FC_UP */
/* 630 */ NdrFcShort( 0xffffffe4 ), /* Offset= -
28 (602) */
/* 632 */
                                0x1b,          /*
FC_CARRAY */
3 */
/* 634 */ NdrFcShort( 0x4 ), /* 4 */
/* 636 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 638 */ NdrFcShort( 0x0 ), /* 0 */
/* 640 */
                                0x4b,          /*
FC_PP */
                                0x5c,          /*
FC_PAD */
/* 642 */
                                0x48,          /*
FC_VARIABLE_REPEAT */
                                0x49,          /*
FC_FIXED_OFFSET */
/* 644 */ NdrFcShort( 0x4 ), /* 4 */
/* 646 */ NdrFcShort( 0x0 ), /* 0 */
/* 648 */ NdrFcShort( 0x1 ), /* 1 */
/* 650 */ NdrFcShort( 0x0 ), /* 0 */

```

```

/* 652 */ NdrFcShort( 0x0 ), /* 0 */
/* 654 */ 0x12, 0x0, /* FC_UP */
/* 656 */ NdrFcShort( 0xffffffffd4 ), /* Offset= -
44 (612) */
/* 658 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 660 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 662 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 664 */ NdrFcShort( 0x8 ), /* 8 */
/* 666 */ NdrFcShort( 0x0 ), /* 0 */
/* 668 */ NdrFcShort( 0x6 ), /* Offset= 6 (674) */
/* 670 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 672 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 674 */
0x11, 0x0, /*
FC_RP */
/* 676 */ NdrFcShort( 0xffffffffd4 ), /* Offset= -
44 (632) */
/* 678 */
0x1d, /*
FC_SMPARRAY */
0x0, /*
0 */
/* 680 */ NdrFcShort( 0x8 ), /* 8 */
/* 682 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 684 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 686 */ NdrFcShort( 0x10 ), /* 16 */
/* 688 */ 0x8, /* FC_LONG */
0x6, /*
FC_SHORT */
/* 690 */ 0x6, /* FC_SHORT */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 692 */ 0x0, /* 0 */
NdrFcShort( 0xfffffffff1
), /* Offset= -15 (678) */
0x5b, /*
FC_END */
/* 696 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */

```

```

/* 698 */ NdrFcShort( 0x18 ), /* 24 */
/* 700 */ NdrFcShort( 0x0 ), /* 0 */
/* 702 */ NdrFcShort( 0xa ), /* Offset= 10 (712) */
/* 704 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 706 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
0x0, /*
0 */
/* 708 */ NdrFcShort( 0xffffffffe8 ), /* Offset= -
24 (684) */
/* 710 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 712 */
0x11, 0x0, /*
FC_RP */
/* 714 */ NdrFcShort( 0xffffffff0c ), /* Offset= -
244 (470) */
/* 716 */
0x1b, /*
FC_CARRAY */
0x0, /*
0 */
/* 718 */ NdrFcShort( 0x1 ), /* 1 */
/* 720 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 722 */ NdrFcShort( 0x0 ), /* 0 */
/* 724 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 726 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 728 */ NdrFcShort( 0x8 ), /* 8 */
/* 730 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 732 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 734 */ NdrFcShort( 0x4 ), /* 4 */
/* 736 */ NdrFcShort( 0x4 ), /* 4 */
/* 738 */ 0x12, 0x0, /* FC_UP */
/* 740 */ NdrFcShort( 0xffffffffe8 ), /* Offset= -
24 (716) */
/* 742 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 744 */ 0x8, /* FC_LONG */

```

```

0x5b, /*
FC_END */
/* 746 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 748 */ NdrFcShort( 0x2 ), /* 2 */
/* 750 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 752 */ NdrFcShort( 0x0 ), /* 0 */
/* 754 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 756 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 758 */ NdrFcShort( 0x8 ), /* 8 */
/* 760 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 762 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 764 */ NdrFcShort( 0x4 ), /* 4 */
/* 766 */ NdrFcShort( 0x4 ), /* 4 */
/* 768 */ 0x12, 0x0, /* FC_UP */
/* 770 */ NdrFcShort( 0xffffffffe8 ), /* Offset= -
24 (746) */
/* 772 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 774 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 776 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 778 */ NdrFcShort( 0x4 ), /* 4 */
/* 780 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 782 */ NdrFcShort( 0x0 ), /* 0 */
/* 784 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 786 */
0x16, /*
FC_PSTRUCT */

```

```

3 */
/* 788 */ NdrFcShort( 0x8 ), /* 8 */
/* 790 */
FC_PP */
0x4b, /*
FC_PAD */
/* 792 */
0x5c, /*
FC_NO_REPEAT */
0x46, /*
0x5c, /*
FC_PAD */
/* 794 */ NdrFcShort( 0x4 ), /* 4 */
/* 796 */ NdrFcShort( 0x4 ), /* 4 */
/* 798 */ 0x12, 0x0, /* FC_UP */
/* 800 */ NdrFcShort( 0xfffffe8 ), /* Offset= -
24 (776) */
/* 802 */
0x5b, /*
FC_END */
0x8, /*
/* 804 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 806 */
0x1b, /*
FC_CARRAY */
0x7, /*
7 */
/* 808 */ NdrFcShort( 0x8 ), /* 8 */
/* 810 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 812 */ NdrFcShort( 0x0 ), /* 0 */
/* 814 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 816 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 818 */ NdrFcShort( 0x8 ), /* 8 */
/* 820 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 822 */
0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 824 */ NdrFcShort( 0x4 ), /* 4 */
/* 826 */ NdrFcShort( 0x4 ), /* 4 */
/* 828 */ 0x12, 0x0, /* FC_UP */
/* 830 */ NdrFcShort( 0xfffffe8 ), /* Offset= -
24 (806) */
/* 832 */

```

```

FC_END */
0x5b, /*
FC_LONG */
/* 834 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 836 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 838 */ NdrFcShort( 0x8 ), /* 8 */
/* 840 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 842 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 844 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 846 */ NdrFcShort( 0x8 ), /* 8 */
/* 848 */ 0x7, /* Corr desc: FC_USHORT
*/
0x0, /*
*/
/* 850 */ NdrFcShort( 0xffd8 ), /* -40 */
/* 852 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 854 */ NdrFcShort( 0xfffffee ), /* Offset= -
18 (836) */
/* 856 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 858 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 860 */ NdrFcShort( 0x28 ), /* 40 */
/* 862 */ NdrFcShort( 0xfffffee ), /* Offset= -
18 (844) */
/* 864 */ NdrFcShort( 0x0 ), /* Offset= 0 (864) */
/* 866 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 868 */ 0x38, /* FC_ALIGNM4 */
0x8, /*
FC_LONG */
/* 870 */ 0x8, /* FC_LONG */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 872 */ 0x0, /* 0 */
NdrFcShort( 0xfffffdf7
), /* Offset= -521 (352) */
0x5b, /*
FC_END */

```

```

/* 876 */
0x12, 0x0, /*
FC_UP */
/* 878 */ NdrFcShort( 0xfffffef6 ), /* Offset= -
266 (612) */
/* 880 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 882 */ 0x1, /* FC_BYTE */
0x5c, /*
FC_PAD */
/* 884 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 886 */ 0x6, /* FC_SHORT */
0x5c, /*
FC_PAD */
/* 888 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 890 */ 0x8, /* FC_LONG */
0x5c, /*
FC_PAD */
/* 892 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 894 */ 0xa, /* FC_FLOAT */
0x5c, /*
FC_PAD */
/* 896 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 898 */ 0xc, /* FC_DOUBLE */
0x5c, /*
FC_PAD */
/* 900 */
0x12, 0x0, /*
FC_UP */
/* 902 */ NdrFcShort( 0xfffffd90 ), /* Offset= -
624 (278) */
/* 904 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 906 */ NdrFcShort( 0xfffffd92 ), /* Offset= -
622 (284) */
/* 908 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 910 */ NdrFcShort( 0xfffffda6 ), /* Offset= -
602 (308) */
/* 912 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 914 */ NdrFcShort( 0xfffffdb4 ), /* Offset= -
588 (326) */
/* 916 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 918 */ NdrFcShort( 0xfffffdc2 ), /* Offset= -
574 (344) */
/* 920 */
0x12, 0x10, /*
FC_UP [pointer_deref] */

```

```

/* 922 */ NdrFcShort( 0x2 ), /* Offset= 2 (924) */
/* 924 */
                                0x12, 0x0, /*
FC_UP */
/* 926 */ NdrFcShort( 0x16 ), /* Offset= 22 (948) */
/* 928 */
                                0x15, /*
FC_STRUCT */
                                0x7, /*
7 */
/* 930 */ NdrFcShort( 0x10 ), /* 16 */
/* 932 */ 0x6, /* FC_SHORT */
                                0x1, /*
FC_BYTE */
/* 934 */ 0x1, /* FC_BYTE */
                                0x38, /*
FC_ALIGNM4 */
/* 936 */ 0x8, /* FC_LONG */
                                0x39, /*
FC_ALIGNM8 */
/* 938 */ 0xb, /* FC_HYPER */
                                0x5b, /*
FC_END */
/* 940 */
                                0x12, 0x0, /*
FC_UP */
/* 942 */ NdrFcShort( 0xffffffff2 ), /* Offset= -
14 (928) */
/* 944 */
                                0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 946 */ 0x2, /* FC_CHAR */
                                0x5c, /*
FC_PAD */
/* 948 */
                                0x1a, /*
FC_BOGUS_STRUCT */
                                0x7, /*
7 */
/* 950 */ NdrFcShort( 0x20 ), /* 32 */
/* 952 */ NdrFcShort( 0x0 ), /* 0 */
/* 954 */ NdrFcShort( 0x0 ), /* Offset= 0 (954) */
/* 956 */ 0x8, /* FC_LONG */
                                0x8, /*
FC_LONG */
/* 958 */ 0x6, /* FC_SHORT */
                                0x6, /*
FC_SHORT */
/* 960 */ 0x6, /* FC_SHORT */
                                0x6, /*
FC_SHORT */
/* 962 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
                                0x0, /*
0 */
/* 964 */ NdrFcShort( 0xfffffc42 ), /* Offset= -
958 (6) */
/* 966 */ 0x5c, /* FC_PAD */
                                0x5b, /*
FC_END */
/* 968 */ 0xb4, /* FC_USER_MARSHAL */
                                0x83, /*
131 */

```

```

/* 970 */ NdrFcShort( 0x0 ), /* 0 */
/* 972 */ NdrFcShort( 0x10 ), /* 16 */
/* 974 */ NdrFcShort( 0x0 ), /* 0 */
/* 976 */ NdrFcShort( 0xfffffc32 ), /* Offset= -
974 (2) */
/* 978 */
                                0x11, 0x4, /*
FC_RP [allocated_on_stack] */
/* 980 */ NdrFcShort( 0x6 ), /* Offset= 6 (986) */
/* 982 */
                                0x13, 0x0, /*
FC_OP */
/* 984 */ NdrFcShort( 0xfffffffdc ), /* Offset= -
36 (948) */
/* 986 */ 0xb4, /* FC_USER_MARSHAL */
                                0x83, /*
131 */
/* 988 */ NdrFcShort( 0x0 ), /* 0 */
/* 990 */ NdrFcShort( 0x10 ), /* 16 */
/* 992 */ NdrFcShort( 0x0 ), /* 0 */
/* 994 */ NdrFcShort( 0xfffffff4 ), /* Offset= -
12 (982) */
                                0x0
    }
};

const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    ( CInterfaceProxyVtbl * ) &ITPCCProxyVtbl,
    0
};

const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    ( CInterfaceStubVtbl * ) &ITPCCStubVtbl,
    0
};

PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};

#define _tpcc_com_ps_CHECK_IID(n)
IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)

int __stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{
    if( !_tpcc_com_ps_CHECK_IID(0) )
    {
        *pIndex = 0;
        return 1;
    }
}

```

```

return 0;
}

const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,
    (PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
    (Const PCInterfaceName *) &
_tpcc_com_ps_InterfaceNamesList,
    0, // no delegation
    &_tpcc_com_ps_IID_Lookup,
    1,
    2,
    0, /* table of [async_uuid] interfaces */
    0, /* Filler1 */
    0, /* Filler2 */
    0, /* Filler3 */
};

#endif /* !defined(_M_IA64) && !defined(_M_AXP64) */

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

/* this ALWAYS GENERATED file contains the proxy stub
code */

/* File created by MIDL compiler version 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run,appending), 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_AXP64)
#define USE_STUBLESS_PROXY

/* verify that the <rpcproxy.h> version is high
enough to compile this file*/
#ifndef __REQD_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 979
#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;

extern const MIDL_TYPE_FORMAT_STRING
_MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
_MIDL_ProcFormatString;

/* Standard interface: __MIDL_itf_tpcc_com_ps_0000,
ver. 0.0,
GUID={0x00000000,0x0000,0x0000,{0x00,0x00,0x00,0x00,0
x00,0x00,0x00,0x00}} */

/* Object interface: IUnknown, ver. 0.0,
GUID={0x00000000,0x0000,0x0000,{0xC0,0x00,0x00,0x00,0
x00,0x00,0x00,0x46}} */

/* Object interface: ITPCC, ver. 0.0,
GUID={0xFEEE6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
{
    0,
    44,
    88,
    132,

```

```

176,
220
};

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    _MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    _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 *)-1 /* ITPCC::NewOrder */ ,
    (void *)-1 /* ITPCC::Payment */ ,
    (void *)-1 /* ITPCC::Delivery */ ,
    (void *)-1 /* ITPCC::StockLevel */ ,
    (void *)-1 /* ITPCC::OrderStatus */ ,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

static const MIDL_STUB_DESC Object_StubDesc =
{
    0,
    NdrOleAllocate,
    NdrOleFree,
    0,
    0,
    0,
    0,
    0,
    0
};

```

```

0,
_MIDL_TypeFormatString.Format,
1, /* -error bounds_check flag */
0x50002, /* Ndr library version */
0,
0x5030118, /* MIDL Version 5.3.280 */
0,
UserMarshalRoutines,
0, /* notify & notify_flag routine table */
0x1, /* MIDL flag */
0, /* Reserved3 */
0, /* Reserved4 */
0 /* Reserved5 */
};

#pragma data_seg(".rdata")

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
{
    {
        VARIANT_UserSize
        ,VARIANT_UserMarshal
        ,VARIANT_UserUnmarshal
        ,VARIANT_UserFree
    }
};

#if !defined(__RPC_WIN64__)
#error Invalid build platform for this stub.
#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 */
#ifdef _ALPHA_
        /* 8 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
        NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
        /* 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, */
#ifdef ALPHA
/* 28 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
                                NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 30 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 32 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 34 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
                                NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 36 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 38 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 40 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
                                NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifdef ALPHA
/* 52 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else

```

```

                                NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 72 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
                                NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 74 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 76 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 78 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
                                NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 80 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 82 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 84 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
                                NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifdef ALPHA
/* 96 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
                                NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 116 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
                                NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 118 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 120 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 122 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
                                NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 124 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 126 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA

```

```

/* 128 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifdef ALPHA
/* 140 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 160 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 162 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */

/* 164 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 166 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else

```

```

NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 168 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 170 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 172 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifdef ALPHA
/* 184 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 204 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 206 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

```

```

/* Parameter txn_out */

/* 208 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 210 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 212 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

/* 214 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 216 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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, axp64 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, axp64 Stack
size/offset = 8 */
/* 250 */ 0x8, /* FC_LONG */
0x0, /*
0 */

```

```

    }
    };
static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
    0,
    {
        NdrPcShort( 0x0 ), /*
/* 2 */
FC_UP */
/* 4 */ NdrPcShort( 0x39e ), /* Offset=
926 (930) */
/* 6 */
FC_NON_ENCAPSULATED_UNION */
0x2b, /*
0x9, /*
FC_ULONG */
/* 8 */ 0x7, /* Corr desc: FC_USHORT
*/
0x0, /*
/* 10 */ NdrPcShort( 0xffff8 ), /* -8 */
/* 12 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 14 */ NdrPcShort( 0x2 ), /* Offset= 2 (16) */
/* 16 */ NdrPcShort( 0x10 ), /* 16 */
/* 18 */ NdrPcShort( 0x2b ), /* 43 */
/* 20 */ NdrPcLong( 0x3 ), /* 3 */
/* 24 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 26 */ NdrPcLong( 0x11 ), /* 17 */
/* 30 */ NdrPcShort( 0x8001 ), /* Simple arm
type: FC_BYTE */
/* 32 */ NdrPcLong( 0x2 ), /* 2 */
/* 36 */ NdrPcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 38 */ NdrPcLong( 0x4 ), /* 4 */
/* 42 */ NdrPcShort( 0x800a ), /* Simple arm
type: FC_FLOAT */
/* 44 */ NdrPcLong( 0x5 ), /* 5 */
/* 48 */ NdrPcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 50 */ NdrPcLong( 0xb ), /* 11 */
/* 54 */ NdrPcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 56 */ NdrPcLong( 0xa ), /* 10 */
/* 60 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 62 */ NdrPcLong( 0x6 ), /* 6 */
/* 66 */ NdrPcShort( 0xd6 ), /* Offset= 214 (280) */
/* 68 */ NdrPcLong( 0x7 ), /* 7 */
/* 72 */ NdrPcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 74 */ NdrPcLong( 0x8 ), /* 8 */
/* 78 */ NdrPcShort( 0xd0 ), /* Offset= 208 (286) */
/* 80 */ NdrPcLong( 0xd ), /* 13 */
/* 84 */ NdrPcShort( 0xe4 ), /* Offset= 228 (312) */
/* 86 */ NdrPcLong( 0x9 ), /* 9 */

```

```

/* 90 */ NdrPcShort( 0xf0 ), /* Offset= 240 (330) */
/* 92 */ NdrPcLong( 0x2000 ), /* 8192 */
/* 96 */ NdrPcShort( 0xfc ), /* Offset= 252 (348) */
/* 98 */ NdrPcLong( 0x24 ), /* 36 */
/* 102 */ NdrPcShort( 0x2f4 ), /* Offset=
756 (858) */
/* 104 */ NdrPcLong( 0x4024 ), /* 16420 */
/* 108 */ NdrPcShort( 0x2ee ), /* Offset=
750 (858) */
/* 110 */ NdrPcLong( 0x4011 ), /* 16401 */
/* 114 */ NdrPcShort( 0x2ec ), /* Offset=
748 (862) */
/* 116 */ NdrPcLong( 0x4002 ), /* 16386 */
/* 120 */ NdrPcShort( 0x2ea ), /* Offset=
746 (866) */
/* 122 */ NdrPcLong( 0x4003 ), /* 16387 */
/* 126 */ NdrPcShort( 0x2e8 ), /* Offset=
744 (870) */
/* 128 */ NdrPcLong( 0x4004 ), /* 16388 */
/* 132 */ NdrPcShort( 0x2e6 ), /* Offset=
742 (874) */
/* 134 */ NdrPcLong( 0x4005 ), /* 16389 */
/* 138 */ NdrPcShort( 0x2e4 ), /* Offset=
740 (878) */
/* 140 */ NdrPcLong( 0x400b ), /* 16395 */
/* 144 */ NdrPcShort( 0x2d2 ), /* Offset=
722 (866) */
/* 146 */ NdrPcLong( 0x400a ), /* 16394 */
/* 150 */ NdrPcShort( 0x2d0 ), /* Offset=
720 (870) */
/* 152 */ NdrPcLong( 0x4006 ), /* 16390 */
/* 156 */ NdrPcShort( 0x2d6 ), /* Offset=
726 (882) */
/* 158 */ NdrPcLong( 0x4007 ), /* 16391 */
/* 162 */ NdrPcShort( 0x2cc ), /* Offset=
716 (878) */
/* 164 */ NdrPcLong( 0x4008 ), /* 16392 */
/* 168 */ NdrPcShort( 0x2ce ), /* Offset=
718 (886) */
/* 170 */ NdrPcLong( 0x400d ), /* 16397 */
/* 174 */ NdrPcShort( 0x2cc ), /* Offset=
716 (890) */
/* 176 */ NdrPcLong( 0x4009 ), /* 16393 */
/* 180 */ NdrPcShort( 0x2ca ), /* Offset=
714 (894) */
/* 182 */ NdrPcLong( 0x6000 ), /* 24576 */
/* 186 */ NdrPcShort( 0x2c8 ), /* Offset=
712 (898) */
/* 188 */ NdrPcLong( 0x400c ), /* 16396 */
/* 192 */ NdrPcShort( 0x2c6 ), /* Offset=
710 (902) */
/* 194 */ NdrPcLong( 0x10 ), /* 16 */
/* 198 */ NdrPcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 200 */ NdrPcLong( 0x12 ), /* 18 */
/* 204 */ NdrPcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 206 */ NdrPcLong( 0x13 ), /* 19 */
/* 210 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 212 */ NdrPcLong( 0x16 ), /* 22 */
/* 216 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */

```

```

/* 218 */ NdrPcLong( 0x17 ), /* 23 */
/* 222 */ NdrPcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 224 */ NdrPcLong( 0xe ), /* 14 */
/* 228 */ NdrPcShort( 0x2aa ), /* Offset=
682 (910) */
/* 230 */ NdrPcLong( 0x400e ), /* 16398 */
/* 234 */ NdrPcShort( 0x2b0 ), /* Offset=
688 (922) */
/* 236 */ NdrPcLong( 0x4010 ), /* 16400 */
/* 240 */ NdrPcShort( 0x2ae ), /* Offset=
686 (926) */
/* 242 */ NdrPcLong( 0x4012 ), /* 16402 */
/* 246 */ NdrPcShort( 0x26c ), /* Offset=
620 (866) */
/* 248 */ NdrPcLong( 0x4013 ), /* 16403 */
/* 252 */ NdrPcShort( 0x26a ), /* Offset=
618 (870) */
/* 254 */ NdrPcLong( 0x4016 ), /* 16406 */
/* 258 */ NdrPcShort( 0x264 ), /* Offset=
612 (870) */
/* 260 */ NdrPcLong( 0x4017 ), /* 16407 */
/* 264 */ NdrPcShort( 0x25e ), /* Offset=
606 (870) */
/* 266 */ NdrPcLong( 0x0 ), /* 0 */
/* 270 */ NdrPcShort( 0x0 ), /* Offset= 0 (270) */
/* 272 */ NdrPcLong( 0x1 ), /* 1 */
/* 276 */ NdrPcShort( 0x0 ), /* Offset= 0 (276) */
/* 278 */ NdrPcShort( 0xffffffff ), /* Offset= -1
(277) */
/* 280 */
FC_STRUCT */
0x15, /*
7 */
0x7, /*
/* 282 */ NdrPcShort( 0x8 ), /* 8 */
/* 284 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 286 */
0x12, 0x0, /*
FC_UP */
/* 288 */ NdrPcShort( 0xe ), /* Offset= 14 (302) */
/* 290 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 292 */ NdrPcShort( 0x2 ), /* 2 */
/* 294 */ 0x9, /* Corr desc: FC_ULONG
*/
0x0, /*
*/
/* 296 */ NdrPcShort( 0xfffc ), /* -4 */
/* 298 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 300 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 302 */
0x17, /*
FC_CSTRUCT */

```

```

3 */
/* 304 */ NdrPcShort( 0x8 ), /* 8 */
/* 306 */ NdrPcShort( 0xfffffff0 ), /* Offset= -
16 (290) */
/* 308 */ 0x8, /* FC_LONG */
FC_LONG */
/* 310 */ 0x5c, /* FC_PAD */
FC_END */
/* 312 */
FC_IP */
0x2f,
FC_IP */
0x5a,
FC_CONSTANT_IID */
/* 314 */ NdrPcLong( 0x0 ), /* 0 */
/* 318 */ NdrPcShort( 0x0 ), /* 0 */
/* 320 */ NdrPcShort( 0x0 ), /* 0 */
/* 322 */ 0xc0, /* 192 */
0 */
/* 324 */ 0x0, /* 0 */
0 */
/* 326 */ 0x0, /* 0 */
0 */
/* 328 */ 0x0, /* 0 */
70 */
/* 330 */
FC_IP */
0x2f,
FC_IP */
0x5a,
FC_CONSTANT_IID */
/* 332 */ NdrPcLong( 0x20400 ), /* 132096 */
/* 336 */ NdrPcShort( 0x0 ), /* 0 */
/* 338 */ NdrPcShort( 0x0 ), /* 0 */
/* 340 */ 0xc0, /* 192 */
0 */
/* 342 */ 0x0, /* 0 */
0 */
/* 344 */ 0x0, /* 0 */
0 */
/* 346 */ 0x0, /* 0 */
70 */
/* 348 */
FC_UP [pointer_deref] */
/* 350 */ NdrPcShort( 0x2 ), /* Offset= 2 (352) */
/* 352 */
0x12, 0x10,
FC_UP */
/* 354 */ NdrPcShort( 0x1e6 ), /* Offset=
486 (840) */
/* 356 */
0x2a,
FC_ENCAPSULATED_UNION */

```

```

137 */
/* 358 */ NdrPcShort( 0x20 ), /* 32 */
/* 360 */ NdrPcShort( 0xa ), /* 10 */
/* 362 */ NdrPcLong( 0x8 ), /* 8 */
/* 366 */ NdrPcShort( 0x50 ), /* Offset= 80 (446) */
/* 368 */ NdrPcLong( 0xd ), /* 13 */
/* 372 */ NdrPcShort( 0x70 ), /* Offset= 112 (484) */
/* 374 */ NdrPcLong( 0x9 ), /* 9 */
/* 378 */ NdrPcShort( 0x90 ), /* Offset= 144 (522) */
/* 380 */ NdrPcLong( 0xc ), /* 12 */
/* 384 */ NdrPcShort( 0xb0 ), /* Offset= 176 (560) */
/* 386 */ NdrPcLong( 0x24 ), /* 36 */
/* 390 */ NdrPcShort( 0x104 ), /* Offset=
260 (650) */
/* 392 */ NdrPcLong( 0x800d ), /* 32781 */
/* 396 */ NdrPcShort( 0x120 ), /* Offset=
288 (684) */
/* 398 */ NdrPcLong( 0x10 ), /* 16 */
/* 402 */ NdrPcShort( 0x13a ), /* Offset=
314 (716) */
/* 404 */ NdrPcLong( 0x2 ), /* 2 */
/* 408 */ NdrPcShort( 0x150 ), /* Offset=
336 (744) */
/* 410 */ NdrPcLong( 0x3 ), /* 3 */
/* 414 */ NdrPcShort( 0x166 ), /* Offset=
358 (772) */
/* 416 */ NdrPcLong( 0x14 ), /* 20 */
/* 420 */ NdrPcShort( 0x17c ), /* Offset=
380 (800) */
/* 422 */ NdrPcShort( 0xffffffff ), /* Offset= -1
(421) */
/* 424 */
0x21,
FC_BOGUS_ARRAY */
0x3,
3 */
/* 426 */ NdrPcShort( 0x0 ), /* 0 */
/* 428 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0,
/* 430 */ NdrPcShort( 0x0 ), /* 0 */
/* 432 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 434 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 438 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 440 */
0x12, 0x0,
FC_UP */
/* 442 */ NdrPcShort( 0xffffffff74 ), /* Offset= -
140 (302) */
/* 444 */ 0x5c, /* FC_PAD */
FC_END */
/* 446 */
0x1a,
FC_BOGUS_STRUCT */
0x3,
3 */
/* 448 */ NdrPcShort( 0x10 ), /* 16 */
/* 450 */ NdrPcShort( 0x0 ), /* 0 */
/* 452 */ NdrPcShort( 0x6 ), /* Offset= 6 (458) */

```

```

/* 454 */ 0x8, /* FC_LONG */
0x39,
FC_ALIGNM8 */
/* 456 */ 0x36, /* FC_POINTER */
0x5b,
FC_END */
/* 458 */
0x11, 0x0,
FC_RP */
/* 460 */ NdrPcShort( 0xfffffffdc ), /* Offset= -
36 (424) */
/* 462 */
0x21,
FC_BOGUS_ARRAY */
0x3,
3 */
/* 464 */ NdrPcShort( 0x0 ), /* 0 */
/* 466 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0,
/* 468 */ NdrPcShort( 0x0 ), /* 0 */
/* 470 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 472 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 476 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 478 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0,
0 */
/* 480 */ NdrPcShort( 0xfffffff58 ), /* Offset= -
168 (312) */
/* 482 */ 0x5c, /* FC_PAD */
0x5b,
FC_END */
/* 484 */
0x1a,
FC_BOGUS_STRUCT */
0x3,
3 */
/* 486 */ NdrPcShort( 0x10 ), /* 16 */
/* 488 */ NdrPcShort( 0x0 ), /* 0 */
/* 490 */ NdrPcShort( 0x6 ), /* Offset= 6 (496) */
/* 492 */ 0x8, /* FC_LONG */
0x39,
FC_ALIGNM8 */
/* 494 */ 0x36, /* FC_POINTER */
0x5b,
FC_END */
/* 496 */
0x11, 0x0,
FC_RP */
/* 498 */ NdrPcShort( 0xfffffffdc ), /* Offset= -
36 (462) */
/* 500 */
0x21,
FC_BOGUS_ARRAY */
0x3,
3 */
/* 502 */ NdrPcShort( 0x0 ), /* 0 */
/* 504 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */

```

```

0x0, /*
/* 506 */ NdrPcShort( 0x0 ), /* 0 */
/* 508 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 510 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 514 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 518 */ NdrPcShort( 0xffffffff44 ), /* Offset= -
188 (330) */
/* 520 */ 0x5c, /* FC_PAD */
/* 522 */
FC_END */
/* 522 */
FC_BOGUS_STRUCT */
0x1a, /*
0x3, /*
3 */
/* 524 */ NdrPcShort( 0x10 ), /* 16 */
/* 526 */ NdrPcShort( 0x0 ), /* 0 */
/* 528 */ NdrPcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
/* 532 */ 0x39, /* FC_ALIGNM8 */
/* 532 */ 0x36, /* FC_POINTER */
/* 534 */
FC_END */
/* 534 */
0x11, 0x0, /*
FC_RP */
/* 536 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (500) */
/* 538 */
FC_BOGUS_ARRAY */
0x21, /*
0x3, /*
3 */
/* 540 */ NdrPcShort( 0x0 ), /* 0 */
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 544 */ NdrPcShort( 0x0 ), /* 0 */
/* 546 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 548 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 552 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 554 */
0x12, 0x0, /*
FC_UP */
/* 556 */ NdrPcShort( 0x176 ), /* Offset=
374 (930) */
/* 558 */ 0x5c, /* FC_PAD */
/* 560 */
FC_END */
/* 560 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */

```

```

/* 562 */ NdrPcShort( 0x10 ), /* 16 */
/* 564 */ NdrPcShort( 0x0 ), /* 0 */
/* 566 */ NdrPcShort( 0x6 ), /* Offset= 6 (572) */
/* 568 */ 0x8, /* FC_LONG */
/* 570 */ 0x36, /* FC_ALIGNM8 */
/* 570 */ 0x36, /* FC_POINTER */
/* 572 */
FC_END */
/* 572 */
0x11, 0x0, /*
FC_RP */
/* 574 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (538) */
/* 576 */
FC_IP */
0x2E, /*
0x5a, /*
FC_CONSTANT_IID */
/* 578 */ NdrPcLong( 0x2f ), /* 47 */
/* 582 */ NdrPcShort( 0x0 ), /* 0 */
/* 584 */ NdrPcShort( 0x0 ), /* 0 */
/* 586 */ 0xc0, /* 192 */
/* 588 */ 0x0, /* 0 */
/* 590 */ 0x0, /* 0 */
/* 592 */ 0x0, /* 0 */
70 */
/* 594 */
0x1b, /*
FC_CARRAY */
0x0, /*
0 */
/* 596 */ NdrPcShort( 0x1 ), /* 1 */
/* 598 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 600 */ NdrPcShort( 0x4 ), /* 4 */
/* 602 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 604 */ 0x1, /* FC_BYTE */
/* 606 */ 0x5b, /* FC_ALIGNM8 */
/* 606 */
FC_END */
/* 606 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 608 */ NdrPcShort( 0x18 ), /* 24 */
/* 610 */ NdrPcShort( 0x0 ), /* 0 */
/* 612 */ NdrPcShort( 0xc ), /* Offset= 12 (624) */
/* 614 */ 0x8, /* FC_LONG */
/* 616 */ 0x8, /* FC_LONG */
/* 616 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/

```

```

0x0, /*
0 */
/* 618 */ NdrPcShort( 0xffffffff6 ), /* Offset= -
42 (576) */
/* 620 */ 0x39, /* FC_ALIGNM8 */
/* 622 */ 0x5c, /* FC_POINTER */
/* 622 */ 0x5c, /* FC_PAD */
/* 624 */
FC_END */
/* 624 */
0x12, 0x0, /*
FC_UP */
/* 626 */ NdrPcShort( 0xffffffffe0 ), /* Offset= -
32 (594) */
/* 628 */
FC_BOGUS_ARRAY */
0x21, /*
0x3, /*
3 */
/* 630 */ NdrPcShort( 0x0 ), /* 0 */
/* 632 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 634 */ NdrPcShort( 0x0 ), /* 0 */
/* 636 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 638 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 642 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 644 */
0x12, 0x0, /*
FC_UP */
/* 646 */ NdrPcShort( 0xffffffff8 ), /* Offset= -
40 (606) */
/* 648 */ 0x5c, /* FC_PAD */
/* 650 */
FC_END */
/* 650 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 652 */ NdrPcShort( 0x10 ), /* 16 */
/* 654 */ NdrPcShort( 0x0 ), /* 0 */
/* 656 */ NdrPcShort( 0x6 ), /* Offset= 6 (662) */
/* 658 */ 0x8, /* FC_LONG */
/* 660 */ 0x39, /* FC_ALIGNM8 */
/* 660 */ 0x36, /* FC_POINTER */
/* 662 */
FC_END */
/* 662 */
0x11, 0x0, /*
FC_RP */
/* 664 */ NdrPcShort( 0xffffffffdc ), /* Offset= -
36 (628) */
/* 666 */
FC_SMPARRAY */
0x1d, /*
0 */
/* 668 */ NdrPcShort( 0x8 ), /* 8 */

```

```

/* 670 */ 0x1,          /* FC_BYTE */
FC_END /*
/* 672 */
FC_STRUCT */
3 */
/* 674 */ NdrFcShort( 0x10 ), /* 16 */
/* 676 */ 0x8,          /* FC_LONG */
FC_SHORT /*
/* 678 */ 0x6,          /* FC_SHORT */
FC_EMBEDDED_COMPLEX /*
/* 680 */ 0x0,          /* 0 */
NdrFcShort( 0xffffffffl
), /* Offset= -15 (666) */
FC_END /*
/* 684 */
FC_BOGUS_STRUCT */
3 */
/* 686 */ NdrFcShort( 0x20 ), /* 32 */
/* 688 */ NdrFcShort( 0x0 ), /* 0 */
/* 690 */ NdrFcShort( 0xa ), /* Offset= 10 (700) */
/* 692 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 694 */ 0x36,         /* FC_POINTER */
FC_EMBEDDED_COMPLEX /*
/* 696 */ 0x0,          /* 0 */
NdrFcShort( 0xffffffffe7
), /* Offset= -25 (672) */
FC_END /*
/* 700 */
FC_RP /*
/* 702 */ NdrFcShort( 0xffffffff10 ), /* Offset= -
240 (462) */
/* 704 */
FC_CARRY /*
0 */
/* 706 */ NdrFcShort( 0x1 ), /* 1 */
/* 708 */ 0x19,         /* Corr desc: field
pointer, FC_ULONG */
/*
/* 710 */ NdrFcShort( 0x0 ), /* 0 */
/* 712 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 714 */ 0x1,          /* FC_BYTE */
FC_END /*
/* 716 */
FC_BOGUS_STRUCT */

```

```

0x3,
3 */
/* 718 */ NdrFcShort( 0x10 ), /* 16 */
/* 720 */ NdrFcShort( 0x0 ), /* 0 */
/* 722 */ NdrFcShort( 0x6 ), /* Offset= 6 (728) */
/* 724 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 726 */ 0x36,         /* FC_POINTER */
FC_END /*
/* 728 */
FC_UP /*
/* 730 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (704) */
/* 732 */
FC_CARRY /*
1 */
/* 734 */ NdrFcShort( 0x2 ), /* 2 */
/* 736 */ 0x19,         /* Corr desc: field
pointer, FC_ULONG */
/*
/* 738 */ NdrFcShort( 0x0 ), /* 0 */
/* 740 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 742 */ 0x6,          /* FC_SHORT */
FC_END /*
/* 744 */
FC_BOGUS_STRUCT */
3 */
/* 746 */ NdrFcShort( 0x10 ), /* 16 */
/* 748 */ NdrFcShort( 0x0 ), /* 0 */
/* 750 */ NdrFcShort( 0x6 ), /* Offset= 6 (756) */
/* 752 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 754 */ 0x36,         /* FC_POINTER */
FC_END /*
/* 756 */
FC_UP /*
/* 758 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (732) */
/* 760 */
FC_CARRY /*
3 */
/* 762 */ NdrFcShort( 0x4 ), /* 4 */
/* 764 */ 0x19,         /* Corr desc: field
pointer, FC_ULONG */
/*
/* 766 */ NdrFcShort( 0x0 ), /* 0 */

```

```

/* 768 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 770 */ 0x8,          /* FC_LONG */
FC_END /*
/* 772 */
FC_BOGUS_STRUCT */
3 */
/* 774 */ NdrFcShort( 0x10 ), /* 16 */
/* 776 */ NdrFcShort( 0x0 ), /* 0 */
/* 778 */ NdrFcShort( 0x6 ), /* Offset= 6 (784) */
/* 780 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 782 */ 0x36,         /* FC_POINTER */
FC_END /*
/* 784 */
FC_UP /*
/* 786 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (760) */
/* 788 */
FC_CARRY /*
7 */
/* 790 */ NdrFcShort( 0x8 ), /* 8 */
/* 792 */ 0x19,         /* Corr desc: field
pointer, FC_ULONG */
/*
/* 794 */ NdrFcShort( 0x0 ), /* 0 */
/* 796 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 798 */ 0xb,          /* FC_HYPER */
FC_END /*
/* 800 */
FC_BOGUS_STRUCT */
3 */
/* 802 */ NdrFcShort( 0x10 ), /* 16 */
/* 804 */ NdrFcShort( 0x0 ), /* 0 */
/* 806 */ NdrFcShort( 0x6 ), /* Offset= 6 (812) */
/* 808 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 810 */ 0x36,         /* FC_POINTER */
FC_END /*
/* 812 */
FC_UP /*
/* 814 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (788) */
/* 816 */
FC_STRUCT */

```

```

0x3, /*
3 */
/* 818 */ NdrPcShort( 0x8 ), /* 8 */
/* 820 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 822 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 824 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 826 */ NdrPcShort( 0x8 ), /* 8 */
/* 828 */ 0x7, /* Corr desc: FC_USHORT */
0x0, /*
*/
/* 830 */ NdrPcShort( 0xffc8 ), /* -56 */
/* 832 */ NdrPcShort( 0x1 ), /* Corr flags: early, */
*/
/* 834 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
*/
0x0, /*
0 */
/* 836 */ NdrPcShort( 0xfffffec ), /* Offset= -
20 (816) */
/* 838 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 840 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 842 */ NdrPcShort( 0x38 ), /* 56 */
/* 844 */ NdrPcShort( 0xfffffec ), /* Offset= -
20 (824) */
/* 846 */ NdrPcShort( 0x0 ), /* Offset= 0 (846) */
/* 848 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 850 */ 0x38, /* FC_ALIGNM4 */
0x8, /*
FC_LONG */
/* 852 */ 0x8, /* FC_LONG */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 854 */ 0x4, /* 4 */
NdrPcShort( 0xffffe0d
), /* Offset= -499 (356) */
0x5b, /*
FC_END */
/* 858 */
0x12, 0x0, /*
FC_UP */
/* 860 */ NdrPcShort( 0xfffff02 ), /* Offset= -
254 (606) */
/* 862 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 864 */ 0x1, /* FC_BYTE */

```

```

0x5c, /*
FC_PAD */
/* 866 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 868 */ 0x6, /* FC_SHORT */
0x5c, /*
FC_PAD */
/* 870 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 872 */ 0x8, /* FC_LONG */
0x5c, /*
FC_PAD */
/* 874 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 876 */ 0xa, /* FC_FLOAT */
0x5c, /*
FC_PAD */
/* 878 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 880 */ 0xc, /* FC_DOUBLE */
0x5c, /*
FC_PAD */
/* 882 */
0x12, 0x0, /*
FC_UP */
/* 884 */ NdrPcShort( 0xffffda4 ), /* Offset= -
604 (280) */
/* 886 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 888 */ NdrPcShort( 0xffffda6 ), /* Offset= -
602 (286) */
/* 890 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 892 */ NdrPcShort( 0xffffdbc ), /* Offset= -
580 (312) */
/* 894 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 896 */ NdrPcShort( 0xffffdca ), /* Offset= -
566 (330) */
/* 898 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 900 */ NdrPcShort( 0xffffdd8 ), /* Offset= -
552 (348) */
/* 902 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 904 */ NdrPcShort( 0x2 ), /* Offset= 2 (906) */
/* 906 */
0x12, 0x0, /*
FC_UP */
/* 908 */ NdrPcShort( 0x16 ), /* Offset= 22 (930) */
/* 910 */
0x15, /*
FC_STRUCT */

```

```

0x7, /*
7 */
/* 912 */ NdrPcShort( 0x10 ), /* 16 */
/* 914 */ 0x6, /* FC_SHORT */
0x1, /*
FC_BYTE */
/* 916 */ 0x1, /* FC_BYTE */
0x38, /*
FC_ALIGNM4 */
/* 918 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 920 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 922 */
0x12, 0x0, /*
FC_UP */
/* 924 */ NdrPcShort( 0xfffff2 ), /* Offset= -
14 (910) */
/* 926 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 928 */ 0x2, /* FC_CHAR */
0x5c, /*
FC_PAD */
/* 930 */
0x1a, /*
FC_BOGUS_STRUCT */
0x7, /*
7 */
/* 932 */ NdrPcShort( 0x20 ), /* 32 */
/* 934 */ NdrPcShort( 0x0 ), /* 0 */
/* 936 */ NdrPcShort( 0x0 ), /* Offset= 0 (936) */
/* 938 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 940 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 942 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 944 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
*/
0x0, /*
0 */
/* 946 */ NdrPcShort( 0xffffc54 ), /* Offset= -
940 (6) */
/* 948 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 950 */ 0xb4, /* FC_USER_MARSHAL */
0x83, /*
131 */
/* 952 */ NdrPcShort( 0x0 ), /* 0 */
/* 954 */ NdrPcShort( 0x18 ), /* 24 */
/* 956 */ NdrPcShort( 0x0 ), /* 0 */
/* 958 */ NdrPcShort( 0xffffc44 ), /* Offset= -
956 (2) */
/* 960 */
0x11, 0x4, /*
FC_RP [alloted_on_stack] */

```

```

/* 962 */ NdrFcShort( 0x6 ), /* Offset= 6 (968) */
/* 964 */
                                0x13, 0x0, /*
FC_OP */
/* 966 */ NdrFcShort( 0xfffffcdc ), /* Offset= -
36 (930) */
/* 968 */ 0xb4, /* FC_USER_MARSHAL */
                                0x83, /*
131 */
/* 970 */ NdrFcShort( 0x0 ), /* 0 */
/* 972 */ NdrFcShort( 0x18 ), /* 24 */
/* 974 */ NdrFcShort( 0x0 ), /* 0 */
/* 976 */ NdrFcShort( 0xfffffff4 ), /* Offset= -
12 (964) */
                                0x0
    }
};

const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    (CInterfaceProxyVtbl *) &ITPCCProxyVtbl,
    0
};

const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    (CInterfaceStubVtbl *) &ITPCCStubVtbl,
    0
};

PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};

#define _tpcc_com_ps_CHECK_IID(n)
IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)

int __stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{
    if(! _tpcc_com_ps_CHECK_IID(0))
    {
        *pIndex = 0;
        return 1;
    }

    return 0;
}

const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,

```

```

(PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
(const PCInterfaceName *) &
_tpcc_com_ps_InterfaceNamesList,
0, /* no delegation
& _tpcc_com_ps_IID_Lookup,
1,
2,
0, /* table of [async_uuid] interfaces */
0, /* Filler1 */
0, /* Filler2 */
0 /* Filler3 */
};

#endif /* defined(_M_IA64) || defined(_M_AXP64) */



---


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 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run),
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_AXP64)
#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 997
#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;

extern const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString;

/* Standard interface: __MIDL_itf_tpcc_com_ps_0000,
ver. 0.0,
GUID={0x00000000,0x0000,0x0000,{0x00,0x00,0x00,0x00,0
x00,0x00,0x00,0x00}} */

/* Object interface: IUnknown, ver. 0.0,
GUID={0x00000000,0x0000,0x0000,{0xC0,0x00,0x00,0x00,0
x00,0x00,0x00,0x46}} */

/* Object interface: ITPCC, ver. 0.0,
GUID={0xFEEE6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
{
    0,
    34,
    68,
    102,
    136,
    170
};

```



```

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    _MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0,
    0,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    _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 *)-1 /* ITPCC::NewOrder */ ,
    (void *)-1 /* ITPCC::Payment */ ,
    (void *)-1 /* ITPCC::Delivery */ ,
    (void *)-1 /* ITPCC::StockLevel */ ,
    (void *)-1 /* ITPCC::OrderStatus */ ,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

static const MIDL_STUB_DESC Object_StubDesc =
{
    0,
    NdrOleAllocate,
    NdrOleFree,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    _MIDL_TypeFormatString.Format,
    1, /* -error bounds_check flag */

```

```

0x20000, /* Ndr library version */
0,
0x5030118, /* MIDL Version 5.3.280 */
0,
UserMarshalRoutines,
0, /* notify & notify_flag routine table */
0x1, /* MIDL flag */
0, /* Reserved3 */
0, /* Reserved4 */
0 /* Reserved5 */
};

#pragma data_seg(".rdata")

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
{
    {
        VARIANT_UserSize
        ,VARIANT_UserMarshal
        ,VARIANT_UserUnmarshal
        ,VARIANT_UserFree
    }
};

#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_marshall] or
[user_marshall] 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, */
        /* 0x6c, */
        Old Flags: object, Oi2 */
        /* 2 */ NdrFcLong( 0x0 ), /* 0 */
        /* 6 */ NdrFcShort( 0x3 ), /* 3 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 8 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */

```

```

#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 10 */ NdrFcShort( 0x0 ), /* 0 */
/* 12 */ NdrFcShort( 0x8 ), /* 8 */
/* 14 */ 0x7, /* Oi2 Flags: srv must
size, clt must size, has return, */
/* 3 */
/* Parameter txn_in */

/* 16 */ NdrFcShort( 0x8b ), /* Flags: must size,
must free, in, by val, */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 18 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 20 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */
/* Parameter txn_out */

/* 22 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifdef _ALPHA_
#ifdef _PPC_
#if !defined(_MIPS_)
/* 24 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else

```

```

                                NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 26 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 28 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 30 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
                                NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 42 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 52 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 54 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 56 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 58 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
                                NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
                                NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 60 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 62 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 64 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
                                NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x1c ), /*
Alpha Stack size/offset = 28 */
#endif

```

```

                                NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 76 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
                                NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
                                NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined(_MIPS_)
/* 86 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
                                NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
                                NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif

```

```

/* 88 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 90 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )
/* 92 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 94 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 96 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )
/* 98 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
Alpha Stack size/offset = 28 */
#endif
/* 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 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )

```

```

/* 110 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )
/* 120 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 122 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Parameter txn_out */

/* 124 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )
/* 126 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif

```

```

#else
NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 128 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

/* Return value */

/* 130 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )
/* 132 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
NdrFcShort( 0x1c ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )
/* 144 */ NdrFcShort( 0x1c ), /* x86 Stack
size/offset = 28 */
#else
NdrFcShort( 0x20 ), /*
MIPS Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x28 ), /*
Alpha Stack size/offset = 40 */
#endif
/* 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, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )
/* 154 */ NdrFcShort( 0x4 ), /* x86 Stack
size/offset = 4 */
#else
        NdrFcShort( 0x8 ), /*
MIPS Stack size/offset = 8 */
#endif
#else
        NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#else
        NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 156 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

        /* Parameter txn_out */

/* 158 */ NdrFcShort( 0x4113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=16 */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )
/* 160 */ NdrFcShort( 0x14 ), /* x86 Stack
size/offset = 20 */
#else
        NdrFcShort( 0x18 ), /*
MIPS Stack size/offset = 24 */
#endif
#else
        NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#else
        NdrFcShort( 0x18 ), /*
Alpha Stack size/offset = 24 */
#endif
/* 162 */ NdrFcShort( 0x3da ), /* Type
Offset=986 */

        /* Return value */

/* 164 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifndef _ALPHA_
#ifndef _PPC_
#if !defined( _MIPS_ )
/* 166 */ NdrFcShort( 0x18 ), /* x86 Stack
size/offset = 24 */
#else
        NdrFcShort( 0x1c ), /*
MIPS Stack size/offset = 28 */
#endif
#else

```

```

        NdrFcShort( 0x1c ), /*
PPC Stack size/offset = 28 */
#endif
#else
        NdrFcShort( 0x20 ), /*
Alpha Stack size/offset = 32 */
#endif
/* 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 */
#ifndef _ALPHA_
/* 178 */ NdrFcShort( 0x8 ), /* x86, MIPS, PPC Stack
size/offset = 8 */
#else
        NdrFcShort( 0x10 ), /*
Alpha Stack size/offset = 16 */
#endif
/* 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, */
#ifndef _ALPHA_
/* 188 */ NdrFcShort( 0x4 ), /* x86, MIPS, PPC Stack
size/offset = 4 */
#else
        NdrFcShort( 0x8 ), /*
Alpha Stack size/offset = 8 */
#endif
/* 190 */ 0x8, /* FC_LONG */
0x0, /*
0 */
0x0

    }
};

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
    0,
    {
        NdrFcShort( 0x0 ), /*
/* 2 */
0x12, 0x0, /*
FC_UP */
/* 4 */ NdrFcShort( 0x3b0 ), /* Offset=
944 (948) */

```

```

/* 6 */
FC_NON_ENCAPSULATED_UNION */
0x2b, /*
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( 0x2b ), /* 43 */
/* 18 */ NdrFcLong( 0x3 ), /* 3 */
/* 22 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 24 */ NdrFcLong( 0x11 ), /* 17 */
/* 28 */ NdrFcShort( 0x8001 ), /* Simple arm
type: FC_BYTE */
/* 30 */ NdrFcLong( 0x2 ), /* 2 */
/* 34 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 36 */ NdrFcLong( 0x4 ), /* 4 */
/* 40 */ NdrFcShort( 0x800a ), /* Simple arm
type: FC_FLOAT */
/* 42 */ NdrFcLong( 0x5 ), /* 5 */
/* 46 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 48 */ NdrFcLong( 0xb ), /* 11 */
/* 52 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 54 */ NdrFcLong( 0xa ), /* 10 */
/* 58 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 60 */ NdrFcLong( 0x6 ), /* 6 */
/* 64 */ NdrFcShort( 0xd6 ), /* Offset= 214 (278) */
/* 66 */ NdrFcLong( 0x7 ), /* 7 */
/* 70 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 72 */ NdrFcLong( 0x8 ), /* 8 */
/* 76 */ NdrFcShort( 0xd0 ), /* Offset= 208 (284) */
/* 78 */ NdrFcLong( 0xd ), /* 13 */
/* 82 */ NdrFcShort( 0xe2 ), /* Offset= 226 (308) */
/* 84 */ NdrFcLong( 0x9 ), /* 9 */
/* 88 */ NdrFcShort( 0xee ), /* Offset= 238 (326) */
/* 90 */ NdrFcLong( 0x2000 ), /* 8192 */
/* 94 */ NdrFcShort( 0xfa ), /* Offset= 250 (344) */
/* 96 */ NdrFcLong( 0x24 ), /* 36 */
/* 100 */ NdrFcShort( 0x308 ), /* Offset=
776 (876) */
/* 102 */ NdrFcLong( 0x4024 ), /* 16420 */
/* 106 */ NdrFcShort( 0x302 ), /* Offset=
770 (876) */
/* 108 */ NdrFcLong( 0x4011 ), /* 16401 */
/* 112 */ NdrFcShort( 0x300 ), /* Offset=
768 (880) */
/* 114 */ NdrFcLong( 0x4002 ), /* 16386 */
/* 118 */ NdrFcShort( 0x2fe ), /* Offset=
766 (884) */
/* 120 */ NdrFcLong( 0x4003 ), /* 16387 */
/* 124 */ NdrFcShort( 0x2fc ), /* Offset=
764 (888) */
/* 126 */ NdrFcLong( 0x4004 ), /* 16388 */

```

```

/* 130 */ NdrFcShort( 0x2fa ), /* Offset=
762 (892) */
/* 132 */ NdrFcLong( 0x4005 ), /* 16389 */
/* 136 */ NdrFcShort( 0x2f8 ), /* Offset=
760 (896) */
/* 138 */ NdrFcLong( 0x400b ), /* 16395 */
/* 142 */ NdrFcShort( 0x2e6 ), /* Offset=
742 (884) */
/* 144 */ NdrFcLong( 0x400a ), /* 16394 */
/* 148 */ NdrFcShort( 0x2e4 ), /* Offset=
740 (888) */
/* 150 */ NdrFcLong( 0x4006 ), /* 16390 */
/* 154 */ NdrFcShort( 0x2ea ), /* Offset=
746 (900) */
/* 156 */ NdrFcLong( 0x4007 ), /* 16391 */
/* 160 */ NdrFcShort( 0x2e0 ), /* Offset=
736 (896) */
/* 162 */ NdrFcLong( 0x4008 ), /* 16392 */
/* 166 */ NdrFcShort( 0x2e2 ), /* Offset=
738 (904) */
/* 168 */ NdrFcLong( 0x400d ), /* 16397 */
/* 172 */ NdrFcShort( 0x2e0 ), /* Offset=
736 (908) */
/* 174 */ NdrFcLong( 0x4009 ), /* 16393 */
/* 178 */ NdrFcShort( 0x2de ), /* Offset=
734 (912) */
/* 180 */ NdrFcLong( 0x6000 ), /* 24576 */
/* 184 */ NdrFcShort( 0x2dc ), /* Offset=
732 (916) */
/* 186 */ NdrFcLong( 0x400c ), /* 16396 */
/* 190 */ NdrFcShort( 0x2da ), /* Offset=
730 (920) */
/* 192 */ NdrFcLong( 0x10 ), /* 16 */
/* 196 */ NdrFcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 198 */ NdrFcLong( 0x12 ), /* 18 */
/* 202 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 204 */ NdrFcLong( 0x13 ), /* 19 */
/* 208 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 210 */ NdrFcLong( 0x16 ), /* 22 */
/* 214 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 216 */ NdrFcLong( 0x17 ), /* 23 */
/* 220 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 222 */ NdrFcLong( 0xe ), /* 14 */
/* 226 */ NdrFcShort( 0x2be ), /* Offset=
702 (928) */
/* 228 */ NdrFcLong( 0x400e ), /* 16398 */
/* 232 */ NdrFcShort( 0x2c4 ), /* Offset=
708 (940) */
/* 234 */ NdrFcLong( 0x4010 ), /* 16400 */
/* 238 */ NdrFcShort( 0x2c2 ), /* Offset=
706 (944) */
/* 240 */ NdrFcLong( 0x4012 ), /* 16402 */
/* 244 */ NdrFcShort( 0x280 ), /* Offset=
640 (884) */
/* 246 */ NdrFcLong( 0x4013 ), /* 16403 */
/* 250 */ NdrFcShort( 0x27e ), /* Offset=
638 (888) */
/* 252 */ NdrFcLong( 0x4016 ), /* 16406 */

```

```

/* 256 */ NdrFcShort( 0x278 ), /* Offset=
632 (888) */
/* 258 */ NdrFcLong( 0x4017 ), /* 16407 */
/* 262 */ NdrFcShort( 0x272 ), /* Offset=
626 (888) */
/* 264 */ NdrFcLong( 0x0 ), /* 0 */
/* 268 */ NdrFcShort( 0x0 ), /* Offset= 0 (268) */
/* 270 */ NdrFcLong( 0x1 ), /* 1 */
/* 274 */ NdrFcShort( 0x0 ), /* Offset= 0 (274) */
/* 276 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(275) */
/* 278 */
0x15, /*
FC_STRUCT */
0x7, /*
7 */
/* 280 */ NdrFcShort( 0x8 ), /* 8 */
/* 282 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 284 */
0x12, 0x0, /*
FC_UP */
/* 286 */ NdrFcShort( 0xc ), /* Offset= 12 (298) */
/* 288 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 290 */ NdrFcShort( 0x2 ), /* 2 */
/* 292 */ 0x9, /* Corr desc: FC_ULONG
*/
0x0, /*
*/
/* 294 */ NdrFcShort( 0xffffc ), /* -4 */
/* 296 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 298 */
0x17, /*
FC_CSTRUCT */
0x3, /*
3 */
/* 300 */ NdrFcShort( 0x8 ), /* 8 */
/* 302 */ NdrFcShort( 0xffffffff2 ), /* Offset= -
14 (288) */
/* 304 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 306 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 308 */
0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 310 */ NdrFcLong( 0x0 ), /* 0 */
/* 314 */ NdrFcShort( 0x0 ), /* 0 */
/* 316 */ NdrFcShort( 0x0 ), /* 0 */
/* 318 */ 0xc0, /* 192 */
0x0, /*
0 */

```

```

/* 320 */ 0x0, /* 0 */
0x0, /*
0 */
/* 322 */ 0x0, /* 0 */
0x0, /*
0 */
/* 324 */ 0x0, /* 0 */
0x46, /*
70 */
/* 326 */
0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 328 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 332 */ NdrFcShort( 0x0 ), /* 0 */
/* 334 */ NdrFcShort( 0x0 ), /* 0 */
/* 336 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 338 */ 0x0, /* 0 */
0x0, /*
0 */
/* 340 */ 0x0, /* 0 */
0x0, /*
0 */
/* 342 */ 0x0, /* 0 */
0x46, /*
70 */
/* 344 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 346 */ NdrFcShort( 0x2 ), /* Offset= 2 (348) */
/* 348 */
0x12, 0x0, /*
FC_UP */
/* 350 */ NdrFcShort( 0x1fc ), /* Offset=
508 (858) */
/* 352 */
0x2a, /*
FC_ENCAPSULATED_UNION */
0x49, /*
73 */
/* 354 */ NdrFcShort( 0x18 ), /* 24 */
/* 356 */ NdrFcShort( 0xa ), /* 10 */
/* 358 */ NdrFcLong( 0x8 ), /* 8 */
/* 362 */ NdrFcShort( 0x58 ), /* Offset= 88 (450) */
/* 364 */ NdrFcLong( 0xd ), /* 13 */
/* 368 */ NdrFcShort( 0x78 ), /* Offset= 120 (488) */
/* 370 */ NdrFcLong( 0x9 ), /* 9 */
/* 374 */ NdrFcShort( 0x94 ), /* Offset= 148 (522) */
/* 376 */ NdrFcLong( 0xc ), /* 12 */
/* 380 */ NdrFcShort( 0xbc ), /* Offset= 188 (568) */
/* 382 */ NdrFcLong( 0x24 ), /* 36 */
/* 386 */ NdrFcShort( 0x114 ), /* Offset=
276 (662) */
/* 388 */ NdrFcLong( 0x800d ), /* 32781 */
/* 392 */ NdrFcShort( 0x130 ), /* Offset=
304 (696) */
/* 394 */ NdrFcLong( 0x10 ), /* 16 */
/* 398 */ NdrFcShort( 0x148 ), /* Offset=
328 (726) */
/* 400 */ NdrFcLong( 0x2 ), /* 2 */

```

```

/* 404 */ NdrFcShort( 0x160 ), /* Offset=
352 (756) */
/* 406 */ NdrFcLong( 0x3 ), /* 3 */
/* 410 */ NdrFcShort( 0x178 ), /* Offset=
376 (786) */
/* 412 */ NdrFcLong( 0x14 ), /* 20 */
/* 416 */ NdrFcShort( 0x190 ), /* Offset=
400 (816) */
/* 418 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(417) */
/* 420 */
FC_CARRAY */ 0x1b, /*
3 */ 0x3, /*
/* 422 */ NdrFcShort( 0x4 ), /* 4 */
/* 424 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
/* 426 */ NdrFcShort( 0x0 ), /* 0 */
/* 428 */
0x4b, /*
FC_PP */ 0x5c, /*
FC_PAD */
/* 430 */
0x48, /*
FC_VARIABLE_REPEAT */
0x49, /*
FC_FIXED_OFFSET */
/* 432 */ NdrFcShort( 0x4 ), /* 4 */
/* 434 */ NdrFcShort( 0x0 ), /* 0 */
/* 436 */ NdrFcShort( 0x1 ), /* 1 */
/* 438 */ NdrFcShort( 0x0 ), /* 0 */
/* 440 */ NdrFcShort( 0x0 ), /* 0 */
/* 442 */ 0x12, 0x0, /* FC_UP */
/* 444 */ NdrFcShort( 0xffffffff6e ), /* Offset= -
146 (298) */
/* 446 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 448 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 450 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 452 */ NdrFcShort( 0x8 ), /* 8 */
/* 454 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 456 */
0x46, /*
FC_NO_REPEAT */

```

```

0x5c, /*
FC_PAD */
/* 458 */ NdrFcShort( 0x4 ), /* 4 */
/* 460 */ NdrFcShort( 0x4 ), /* 4 */
/* 462 */ 0x11, 0x0, /* FC_RP */
/* 464 */ NdrFcShort( 0xffffffff4 ), /* Offset= -
44 (420) */
/* 466 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 468 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 470 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 472 */ NdrFcShort( 0x0 ), /* 0 */
/* 474 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
/* 476 */ NdrFcShort( 0x0 ), /* 0 */
/* 478 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 482 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 484 */ NdrFcShort( 0xffffffff50 ), /* Offset= -
176 (308) */
/* 486 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 488 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 490 */ NdrFcShort( 0x8 ), /* 8 */
/* 492 */ NdrFcShort( 0x0 ), /* 0 */
/* 494 */ NdrFcShort( 0x6 ), /* Offset= 6 (500) */
/* 496 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 498 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 500 */
0x11, 0x0, /*
FC_RP */
/* 502 */ NdrFcShort( 0xffffffffe0 ), /* Offset= -
32 (470) */
/* 504 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 506 */ NdrFcShort( 0x0 ), /* 0 */

```

```

/* 508 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 510 */ NdrFcShort( 0x0 ), /* 0 */
/* 512 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 518 */ NdrFcShort( 0xffffffff40 ), /* Offset= -
192 (326) */
/* 520 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 522 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 524 */ NdrFcShort( 0x8 ), /* 8 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 532 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 534 */
0x11, 0x0, /*
FC_RP */
/* 536 */ NdrFcShort( 0xffffffffe0 ), /* Offset= -
32 (504) */
/* 538 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 540 */ NdrFcShort( 0x4 ), /* 4 */
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
/* 544 */ NdrFcShort( 0x0 ), /* 0 */
/* 546 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 548 */
0x48, /*
FC_VARIABLE_REPEAT */
0x49, /*
FC_FIXED_OFFSET */
/* 550 */ NdrFcShort( 0x4 ), /* 4 */
/* 552 */ NdrFcShort( 0x0 ), /* 0 */
/* 554 */ NdrFcShort( 0x1 ), /* 1 */
/* 556 */ NdrFcShort( 0x0 ), /* 0 */
/* 558 */ NdrFcShort( 0x0 ), /* 0 */
/* 560 */ 0x12, 0x0, /* FC_UP */
/* 562 */ NdrFcShort( 0x182 ), /* Offset=
386 (948) */

```

/* 564 */				0x1a,	/*			0x1a,	/*
FC_END */	0x5b,	/*	FC_BOGUS_STRUCT */	0x3,	/*			0x3,	/*
			3 */					3 */	
FC_LONG */	0x8,	/*	/* 614 */ NdrFcShort(0x10), /* 16 */					/* 664 */ NdrFcShort(0x8), /* 8 */	
/* 566 */ 0x5c,	/* FC_PAD */	/*	/* 616 */ NdrFcShort(0x0), /* 0 */					/* 666 */ NdrFcShort(0x0), /* 0 */	
FC_END */	0x5b,	/*	/* 618 */ NdrFcShort(0xa), /* Offset= 10 (628) */					/* 668 */ NdrFcShort(0x6), /* Offset= 6 (674) */	
/* 568 */			/* 620 */ 0x8,	/* FC_LONG */	/*			/* 670 */ 0x8,	/* FC_LONG */
FC_BOGUS_STRUCT */	0x1a,	/*	FC_LONG */	0x8,	/*			FC_POINTER */	0x36,
	0x3,	/*	/* 622 */ 0x4c,	/* FC_EMBEDDED_COMPLEX */	/*			/* 672 */ 0x5c,	/* FC_PAD */
3 */				0x0,	/*			FC_END */	0x5b,
/* 570 */ NdrFcShort(0x8), /* 8 */			0 */					/* 674 */	
/* 572 */ NdrFcShort(0x0), /* 0 */			/* 624 */ NdrFcShort(0xffffffff), /* Offset= -						0x11, 0x0,
/* 574 */ NdrFcShort(0x6), /* Offset= 6 (580) */			40 (584) */					FC_FP */	
/* 576 */ 0x8,	/* FC_LONG */	/*	/* 626 */ 0x36,	/* FC_POINTER */	/*			/* 676 */ NdrFcShort(0xffffffff), /* Offset= -	
FC_POINTER */	0x36,	/*	FC_END */	0x5b,	/*			44 (632) */	
/* 578 */ 0x5c,	/* FC_PAD */	/*	/* 628 */					/* 678 */	0x1d,
FC_END */	0x5b,	/*	FC_UP */	0x12, 0x0,	/*			FC_SMFARRAY */	
/* 580 */			/* 630 */ NdrFcShort(0xffffffe4), /* Offset= -					0 */	0x0,
FC_FP */	0x11, 0x0,	/*	28 (602) */					/* 680 */ NdrFcShort(0x8), /* 8 */	
/* 582 */ NdrFcShort(0xffffffff), /* Offset= -			/* 632 */					/* 682 */ 0x1,	/* FC_BYTE */
44 (538) */			FC_CARRAY */	0x1b,	/*			FC_END */	0x5b,
/* 584 */				0x3,	/*			/* 684 */	
FC_IP */	0x2E,	/*	3 */					FC_STRUCT */	0x15,
	0x5a,	/*	/* 634 */ NdrFcShort(0x4), /* 4 */						
FC_CONSTANT_IID */			/* 636 */ 0x19,	/* Corr desc: field					0x3,
/* 586 */ NdrFcLong(0x2f), /* 47 */			pointer, FC_ULONG */	0x0,	/*			3 */	
/* 590 */ NdrFcShort(0x0), /* 0 */								/* 686 */ NdrFcShort(0x10), /* 16 */	
/* 592 */ NdrFcShort(0x0), /* 0 */			/* 638 */ NdrFcShort(0x0), /* 0 */					/* 688 */ 0x8,	/* FC_LONG */
/* 594 */ 0xc0,	/* 192 */		/* 640 */					FC_SHORT */	0x6,
0 */	0x0,	/*	FC_PP */	0x4b,	/*			/* 690 */ 0x6,	/* FC_SHORT */
/* 596 */ 0x0,	/* 0 */	/*	FC_PAD */	0x5c,	/*			FC_EMBEDDED_COMPLEX */	0x4c,
0 */	0x0,	/*	/* 642 */					/* 692 */ 0x0,	/* 0 */
/* 598 */ 0x0,	/* 0 */	/*	FC_VARIABLE_REPEAT */	0x48,	/*), /* Offset= -15 (678) */	NdrFcShort(0xffffffff1
0 */	0x0,	/*		0x49,	/*			FC_END */	0x5b,
/* 600 */ 0x0,	/* 0 */	/*	FC_FIXED_OFFSET */					/* 696 */	
70 */	0x46,	/*	/* 644 */ NdrFcShort(0x4), /* 4 */					FC_BOGUS_STRUCT */	0x1a,
/* 602 */			/* 646 */ NdrFcShort(0x0), /* 0 */						
FC_CARRAY */	0x1b,	/*	/* 648 */ NdrFcShort(0x1), /* 1 */						0x3,
	0x0,	/*	/* 650 */ NdrFcShort(0x0), /* 0 */					3 */	
0 */			/* 652 */ NdrFcShort(0x0), /* 0 */					/* 698 */ NdrFcShort(0x18), /* 24 */	
/* 604 */ NdrFcShort(0x1), /* 1 */			/* 654 */ 0x12, 0x0,	/* FC_UP */	/*			/* 700 */ NdrFcShort(0x0), /* 0 */	
/* 606 */ 0x19,	/* Corr desc: field		/* 656 */ NdrFcShort(0xffffffff), /* Offset= -					/* 702 */ NdrFcShort(0xa), /* Offset= 10 (712) */	
pointer, FC_ULONG */			44 (612) */					/* 704 */ 0x8,	/* FC_LONG */
/	0x0,	/	/* 658 */					0x36,	/*
/* 608 */ NdrFcShort(0x4), /* 4 */			FC_END */	0x5b,	/*			FC_POINTER */	0x36,
/* 610 */ 0x1,	/* FC_BYTE */	/*						/* 706 */ 0x4c,	/* FC_EMBEDDED_COMPLEX
FC_END */	0x5b,	/*	FC_LONG */	0x8,	/*			*/	0x0,
/* 612 */			/* 660 */ 0x5c,	/* FC_PAD */	/*			0 */	0x0,
			FC_END */	0x5b,	/*			/* 708 */ NdrFcShort(0xffffffe8), /* Offset= -	
			/* 662 */					24 (684) */	
								/* 710 */ 0x5c,	/* FC_PAD */

```

0x5b, /*
FC_END */
/* 712 */
FC_RP */
/* 714 */ NdrFcShort( 0xfffff0c ), /* Offset= -
244 (470) */
/* 716 */
FC_CARRAY */
0x1b, /*
0x0, /*
0 */
/* 718 */ NdrFcShort( 0x1 ), /* 1 */
/* 720 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 722 */ NdrFcShort( 0x0 ), /* 0 */
/* 724 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 726 */
FC_PSTRUCT */
0x16, /*
3 */
/* 728 */ NdrFcShort( 0x8 ), /* 8 */
/* 730 */
FC_PP */
0x4b, /*
FC_PAD */
0x5c, /*
FC_NO_REPEAT */
0x46, /*
0x5c, /*
FC_PAD */
/* 734 */ NdrFcShort( 0x4 ), /* 4 */
/* 736 */ NdrFcShort( 0x4 ), /* 4 */
/* 738 */ 0x12, 0x0, /* FC_UP */
/* 740 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (716) */
/* 742 */
FC_END */
0x5b, /*
0x8, /*
FC_LONG */
/* 744 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 746 */
FC_CARRAY */
0x1b, /*
1 */
/* 748 */ NdrFcShort( 0x2 ), /* 2 */
/* 750 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 752 */ NdrFcShort( 0x0 ), /* 0 */
/* 754 */ 0x6, /* FC_SHORT */

```

```

0x5b, /*
FC_END */
/* 756 */
FC_PSTRUCT */
0x16, /*
0x3, /*
3 */
/* 758 */ NdrFcShort( 0x8 ), /* 8 */
/* 760 */
FC_PP */
0x4b, /*
FC_PAD */
0x5c, /*
FC_NO_REPEAT */
0x46, /*
0x5c, /*
FC_PAD */
/* 764 */ NdrFcShort( 0x4 ), /* 4 */
/* 766 */ NdrFcShort( 0x4 ), /* 4 */
/* 768 */ 0x12, 0x0, /* FC_UP */
/* 770 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (746) */
/* 772 */
FC_END */
0x5b, /*
0x8, /*
FC_LONG */
/* 774 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 776 */
FC_CARRAY */
0x1b, /*
0x3, /*
3 */
/* 778 */ NdrFcShort( 0x4 ), /* 4 */
/* 780 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 782 */ NdrFcShort( 0x0 ), /* 0 */
/* 784 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 786 */
FC_PSTRUCT */
0x16, /*
0x3, /*
3 */
/* 788 */ NdrFcShort( 0x8 ), /* 8 */
/* 790 */
FC_PP */
0x4b, /*
FC_PAD */
0x5c, /*
FC_NO_REPEAT */
0x46, /*
0x5c, /*
FC_PAD */
/* 794 */ NdrFcShort( 0x4 ), /* 4 */

```

```

/* 796 */ NdrFcShort( 0x4 ), /* 4 */
/* 798 */ 0x12, 0x0, /* FC_UP */
/* 800 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (776) */
/* 802 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 804 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 806 */
FC_CARRAY */
0x1b, /*
0x7, /*
7 */
/* 808 */ NdrFcShort( 0x8 ), /* 8 */
/* 810 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 812 */ NdrFcShort( 0x0 ), /* 0 */
/* 814 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 816 */
0x16, /*
FC_PSTRUCT */
0x3, /*
3 */
/* 818 */ NdrFcShort( 0x8 ), /* 8 */
/* 820 */
FC_PP */
0x4b, /*
FC_PAD */
0x5c, /*
FC_NO_REPEAT */
0x46, /*
0x5c, /*
FC_PAD */
/* 824 */ NdrFcShort( 0x4 ), /* 4 */
/* 826 */ NdrFcShort( 0x4 ), /* 4 */
/* 828 */ 0x12, 0x0, /* FC_UP */
/* 830 */ NdrFcShort( 0xffffffe8 ), /* Offset= -
24 (806) */
/* 832 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 834 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 836 */
FC_STRUCT */
0x15, /*
3 */
/* 838 */ NdrFcShort( 0x8 ), /* 8 */

```



```

/* 840 */ 0x8,          /* FC_LONG */
FC_LONG */
/* 842 */ 0x5c,        /* FC_PAD */
FC_END */
/* 844 */
FC_CARRAY */
3 */
/* 846 */ NdrFcShort( 0x8 ), /* 8 */
/* 848 */ 0x7,          /* Corr desc: FC_USHORT */
/*
/* 850 */ NdrFcShort( 0xffd8 ), /* -40 */
/* 852 */ 0x4c,          /* FC_EMBEDDED_COMPLEX */
/*
0 */
/* 854 */ NdrFcShort( 0xfffffee ), /* Offset= -18 (836) */
/* 856 */ 0x5c,          /* FC_PAD */
FC_END */
/* 858 */
FC_BOGUS_STRUCT */
3 */
/* 860 */ NdrFcShort( 0x28 ), /* 40 */
/* 862 */ NdrFcShort( 0xfffffee ), /* Offset= -18 (844) */
/* 864 */ NdrFcShort( 0x0 ), /* Offset= 0 (864) */
/* 866 */ 0x6,          /* FC_SHORT */
FC_SHORT */
/* 868 */ 0x38,          /* FC_ALIGNM4 */
FC_LONG */
/* 870 */ 0x8,          /* FC_LONG */
FC_EMBEDDED_COMPLEX */
/* 872 */ 0x0,          /* 0 */
NdrFcShort( 0xffffdf7 ), /* Offset= -521 (352) */
FC_END */
/* 876 */
FC_UP */
/* 878 */ NdrFcShort( 0xffffef6 ), /* Offset= -266 (612) */
/* 880 */
FC_UP [simple_pointer] */
/* 882 */ 0x1,          /* FC_BYTE */
FC_PAD */
/* 884 */
FC_UP [simple_pointer] */

```

```

/* 886 */ 0x6,          /* FC_SHORT */
FC_PAD */
/* 888 */
FC_UP [simple_pointer] */
/* 890 */ 0x8,          /* FC_LONG */
FC_PAD */
/* 892 */
FC_UP [simple_pointer] */
/* 894 */ 0xa,          /* FC_FLOAT */
FC_PAD */
/* 896 */
FC_UP [simple_pointer] */
/* 898 */ 0xc,          /* FC_DOUBLE */
FC_PAD */
/* 900 */
FC_UP */
/* 902 */ NdrFcShort( 0xffffd90 ), /* Offset= -624 (278) */
/* 904 */
FC_UP [pointer_deref] */
/* 906 */ NdrFcShort( 0xffffd92 ), /* Offset= -622 (284) */
/* 908 */
FC_UP [pointer_deref] */
/* 910 */ NdrFcShort( 0xffffda6 ), /* Offset= -602 (308) */
/* 912 */
FC_UP [pointer_deref] */
/* 914 */ NdrFcShort( 0xffffdb4 ), /* Offset= -588 (326) */
/* 916 */
FC_UP [pointer_deref] */
/* 918 */ NdrFcShort( 0xffffdc2 ), /* Offset= -574 (344) */
/* 920 */
FC_UP [pointer_deref] */
/* 922 */ NdrFcShort( 0x2 ), /* Offset= 2 (924) */
/* 924 */
FC_UP */
/* 926 */ NdrFcShort( 0x16 ), /* Offset= 22 (948) */
/* 928 */
FC_STRUCT */
7 */
/* 930 */ NdrFcShort( 0x10 ), /* 16 */
/* 932 */ 0x6,          /* FC_SHORT */
FC_BYTE */

```

```

/* 934 */ 0x1,          /* FC_BYTE */
FC_ALIGNM4 */
/* 936 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 */
/* 938 */ 0xb,          /* FC_HYPER */
FC_END */
/* 940 */
FC_UP */
/* 942 */ NdrFcShort( 0xfffffff2 ), /* Offset= -14 (928) */
/* 944 */
FC_UP [simple_pointer] */
/* 946 */ 0x2,          /* FC_CHAR */
FC_PAD */
/* 948 */
FC_BOGUS_STRUCT */
7 */
/* 950 */ NdrFcShort( 0x20 ), /* 32 */
/* 952 */ NdrFcShort( 0x0 ), /* 0 */
/* 954 */ NdrFcShort( 0x0 ), /* Offset= 0 (954) */
/* 956 */ 0x8,          /* FC_LONG */
FC_LONG */
/* 958 */ 0x6,          /* FC_SHORT */
FC_SHORT */
/* 960 */ 0x6,          /* FC_SHORT */
FC_SHORT */
/* 962 */ 0x4c,          /* FC_EMBEDDED_COMPLEX */
0 */
/* 964 */ NdrFcShort( 0xfffffc42 ), /* Offset= -958 (6) */
/* 966 */ 0x5c,          /* FC_PAD */
FC_END */
/* 968 */ 0xb4,          /* FC_USER_MARSHAL */
131 */
/* 970 */ NdrFcShort( 0x0 ), /* 0 */
/* 972 */ NdrFcShort( 0x10 ), /* 16 */
/* 974 */ NdrFcShort( 0x0 ), /* 0 */
/* 976 */ NdrFcShort( 0xfffffc32 ), /* Offset= -974 (2) */
/* 978 */
FC_RP [allocated_on_stack] */
/* 980 */ NdrFcShort( 0x6 ), /* Offset= 6 (986) */
/* 982 */
FC_OP */
/* 984 */ NdrFcShort( 0xfffffcdc ), /* Offset= -36 (948) */

```

```

/* 986 */ 0xb4,          /* FC_USER_MARSHAL */
                                0x83,          /*
131 */
/* 988 */ NdrFcShort( 0x0 ), /* 0 */
/* 990 */ NdrFcShort( 0x10 ), /* 16 */
/* 992 */ NdrFcShort( 0x0 ), /* 0 */
/* 994 */ NdrFcShort( 0xfffffff4 ), /* Offset= -
12 (982) */

                                0x0

    }
};

const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    ( CInterfaceProxyVtbl *) &ITPCCProxyVtbl,
    0
};

const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    ( CInterfaceStubVtbl *) &ITPCCStubVtbl,
    0
};

PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};

#define _tpcc_com_ps_CHECK_IID(n)
IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)

int __stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{
    if(! _tpcc_com_ps_CHECK_IID(0))
    {
        *pIndex = 0;
        return 1;
    }

    return 0;
}

const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,
    (PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
    (const PCInterfaceName *) &
_tpcc_com_ps_InterfaceNamesList,
    0, // no delegation
    &_tpcc_com_ps_IID_Lookup,

```

```

1,
2,
0, /* table of [async_uuid] interfaces */
0, /* Filler1 */
0, /* Filler2 */
0 /* Filler3 */
};

#endif /* !defined(_M_IA64) && !defined(_M_AXP64)*/

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

/* this ALWAYS GENERATED file contains the proxy stub
code */

/* File created by MIDL compiler version 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run,appending), 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_AXP64)
#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 979
#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;

extern const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString;

/* Standard interface: __MIDL_itf_tpcc_com_ps_0000,
ver. 0.0,
GUID={0x00000000,0x0000,0x0000,{0x00,0x00,0x00,0x00,0
x00,0x00,0x00,0x00}} */

/* Object interface: IUnknown, ver. 0.0,
GUID={0x00000000,0x0000,0x0000,{0xc0,0x00,0x00,0x00,0
x00,0x00,0x00,0x46}} */

/* Object interface: ITPCC, ver. 0.0,
GUID={0xFEEE6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0xC0,0
x4F,0xBF,0xE0,0x8B}} */

extern const MIDL_STUB_DESC Object_StubDesc;

extern const MIDL_SERVER_INFO ITPCC_ServerInfo;

#pragma code_seg(".orpc")
static const unsigned short
ITPCC_FormatStringOffsetTable[] =
{
    0,
    44,
    88,
    132,
    176,
    220
};

static const MIDL_SERVER_INFO ITPCC_ServerInfo =
{
    &Object_StubDesc,
    0,
    __MIDL_ProcFormatString.Format,
    &ITPCC_FormatStringOffsetTable[-3],
    0,
    0,
    0,
    0
};

```

```

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    _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 *)-1 /* ITPCC::NewOrder */ ,
    (void *)-1 /* ITPCC::Payment */ ,
    (void *)-1 /* ITPCC::Delivery */ ,
    (void *)-1 /* ITPCC::StockLevel */ ,
    (void *)-1 /* ITPCC::OrderStatus */ ,
    (void *)-1 /* ITPCC::CallSetComplete */
};

const CInterfaceStubVtbl _ITPCCStubVtbl =
{
    &IID_ITPCC,
    &ITPCC_ServerInfo,
    9,
    0, /* pure interpreted */
    CStdStubBuffer_METHODS
};

extern const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ];

static const MIDL_STUB_DESC Object_StubDesc =
{
    0,
    NdrOleAllocate,
    NdrOleFree,
    0,
    0,
    0,
    0,
    0,
    0,
    0,
    _MIDL_TypeFormatString.Format,
    1, /* -error bounds_check flag */
    0x50002, /* Ndr library version */
    0,
    0x5030118, /* MIDL Version 5.3.280 */
    0,
    UserMarshalRoutines,
    0, /* notify & notify_flag routine table */
    0x1, /* MIDL flag */
    0, /* Reserved3 */
    0, /* Reserved4 */
    0 /* Reserved5 */
};

```

```

#pragma data_seg(".rdata")

static const USER_MARSHAL_ROUTINE_QUADRUPLE
UserMarshalRoutines[ WIRE_MARSHAL_TABLE_SIZE ] =
{
    {
        VARIANT_UserSize
        ,VARIANT_UserMarshal
        ,VARIANT_UserUnmarshal
        ,VARIANT_UserFree
    }
};

#if !defined(_RPC_WIN64_)
#error Invalid build platform for this stub.
#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 */
        #ifndef _ALPHA_
        /* 8 */ NdrFcShort( 0x38 ), /* ia64 Stack
        size/offset = 56 */
        #else
        NdrFcShort( 0x30 ), /*
        axp64 Stack size/offset = 48 */
        #endif
        /* 10 */ NdrFcShort( 0x0 ), /* 0 */
        /* 12 */ NdrFcShort( 0x8 ), /* 8 */
        /* 14 */ 0x47, /* Oi2 Flags: srv must
        size, clt must size, has return, has ext, */
        3 /*
        */
        /* 16 */ 0xa, /* 10 */
        /* 18 */ 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, */
        #ifndef _ALPHA_
        /* 28 */ NdrFcShort( 0x10 ), /* ia64 Stack
        size/offset = 16 */

```

```

#else
        NdrFcShort( 0x8 ), /*
        axp64 Stack size/offset = 8 */
        #endif
        /* 30 */ NdrFcShort( 0x3b6 ), /* Type
        Offset=950 */

        /* Parameter txn_out */

        /* 32 */ NdrFcShort( 0x6113 ), /* Flags:
        must size, must free, out, simple ref, srv alloc
        size=24 */
        #ifndef _ALPHA_
        /* 34 */ NdrFcShort( 0x28 ), /* ia64 Stack
        size/offset = 40 */
        #else
        NdrFcShort( 0x20 ), /*
        axp64 Stack size/offset = 32 */
        #endif
        /* 36 */ NdrFcShort( 0x3c8 ), /* Type
        Offset=968 */

        /* Return value */

        /* 38 */ NdrFcShort( 0x70 ), /* Flags: out, return,
        base type, */
        #ifndef _ALPHA_
        /* 40 */ NdrFcShort( 0x30 ), /* ia64 Stack
        size/offset = 48 */
        #else
        NdrFcShort( 0x28 ), /*
        axp64 Stack size/offset = 40 */
        #endif
        /* 42 */ 0x8, /* FC_LONG */
        /* 44 */ 0x0, /*
        */

        /* Procedure Payment */

        /* 44 */ 0x33, /* FC_AUTO_HANDLE */
        /* 46 */ 0x6c, /*
        */
        Old Flags: object, Oi2 */
        /* 46 */ NdrFcLong( 0x0 ), /* 0 */
        /* 50 */ NdrFcShort( 0x4 ), /* 4 */
        #ifndef _ALPHA_
        /* 52 */ NdrFcShort( 0x38 ), /* ia64 Stack
        size/offset = 56 */
        #else
        NdrFcShort( 0x30 ), /*
        axp64 Stack size/offset = 48 */
        #endif
        /* 54 */ NdrFcShort( 0x0 ), /* 0 */
        /* 56 */ NdrFcShort( 0x8 ), /* 8 */
        /* 58 */ 0x47, /* Oi2 Flags: srv must
        size, clt must size, has return, has ext, */
        /* 60 */ 0x3, /*
        */
        3 /*
        */
        /* 60 */ 0xa, /* 10 */
        /* 62 */ 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, */
#ifdef _ALPHA
/* 72 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
    NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 74 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

    /* Parameter txn_out */

/* 76 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef _ALPHA
/* 78 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
    NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 80 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

    /* Return value */

/* 82 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef _ALPHA
/* 84 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
    NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifdef _ALPHA
/* 96 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
    NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef _ALPHA
/* 116 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
    NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 118 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

    /* Parameter txn_out */

/* 120 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef _ALPHA
/* 122 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
    NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 124 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

    /* Return value */

/* 126 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef _ALPHA
/* 128 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
    NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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 */
#ifdef _ALPHA
/* 140 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
    NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef _ALPHA
/* 160 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
    NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 162 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

    /* Parameter txn_out */

/* 164 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef _ALPHA
/* 166 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
    NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 168 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

    /* Return value */

/* 170 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef _ALPHA
/* 172 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
    NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif

```

```

/* 174 */ 0x8, /* FC_LONG */
0 */
/* Procedure OrderStatus */
/* 176 */ 0x33, /* FC_AUTO_HANDLE */
0x6c, /*
Old Flags: object, Oi2 */
/* 178 */ NdrFcLong( 0x0 ), /* 0 */
/* 182 */ NdrFcShort( 0x7 ), /* 7 */
#ifdef ALPHA
/* 184 */ NdrFcShort( 0x38 ), /* ia64 Stack
size/offset = 56 */
#else
NdrFcShort( 0x30 ), /*
axp64 Stack size/offset = 48 */
#endif
/* 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, */
#ifdef ALPHA
/* 204 */ NdrFcShort( 0x10 ), /* ia64 Stack
size/offset = 16 */
#else
NdrFcShort( 0x8 ), /*
axp64 Stack size/offset = 8 */
#endif
/* 206 */ NdrFcShort( 0x3b6 ), /* Type
Offset=950 */

/* Parameter txn_out */
/* 208 */ NdrFcShort( 0x6113 ), /* Flags:
must size, must free, out, simple ref, srv alloc
size=24 */
#ifdef ALPHA
/* 210 */ NdrFcShort( 0x28 ), /* ia64 Stack
size/offset = 40 */
#else
NdrFcShort( 0x20 ), /*
axp64 Stack size/offset = 32 */
#endif
/* 212 */ NdrFcShort( 0x3c8 ), /* Type
Offset=968 */

/* Return value */

```

```

/* 214 */ NdrFcShort( 0x70 ), /* Flags: out, return,
base type, */
#ifdef ALPHA
/* 216 */ NdrFcShort( 0x30 ), /* ia64 Stack
size/offset = 48 */
#else
NdrFcShort( 0x28 ), /*
axp64 Stack size/offset = 40 */
#endif
/* 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, axp64 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, axp64 Stack
size/offset = 8 */
/* 250 */ 0x8, /* FC_LONG */
0x0, /*
0 */

}
static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
0,
{
NdrFcShort( 0x0 ), /*
0 */
/* 2 */
0x12, 0x0, /*
FC_UP */
/* 4 */ NdrFcShort( 0x39e ), /* Offset=
926 (930) */

```

```

/* 6 */
FC_NON_ENCAPSULATED_UNION */
0x2b, /*
0x9, /*
FC_ULONG */
/* 8 */ 0x7, /* Corr desc: FC_USHORT
*/
0x0, /*
*/
/* 10 */ NdrFcShort( 0xffff ), /* -8 */
/* 12 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 14 */ NdrFcShort( 0x2 ), /* Offset= 2 (16) */
/* 16 */ NdrFcShort( 0x10 ), /* 16 */
/* 18 */ NdrFcShort( 0x2b ), /* 43 */
/* 20 */ NdrFcLong( 0x3 ), /* 3 */
/* 24 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 26 */ NdrFcLong( 0x11 ), /* 17 */
/* 30 */ NdrFcShort( 0x8001 ), /* Simple arm
type: FC_BYTE */
/* 32 */ NdrFcLong( 0x2 ), /* 2 */
/* 36 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 38 */ NdrFcLong( 0x4 ), /* 4 */
/* 42 */ NdrFcShort( 0x800a ), /* Simple arm
type: FC_FLOAT */
/* 44 */ NdrFcLong( 0x5 ), /* 5 */
/* 48 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 50 */ NdrFcShort( 0xb ), /* 11 */
/* 54 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 56 */ NdrFcLong( 0xa ), /* 10 */
/* 60 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 62 */ NdrFcLong( 0x6 ), /* 6 */
/* 66 */ NdrFcShort( 0xd6 ), /* Offset= 214 (280) */
/* 68 */ NdrFcLong( 0x7 ), /* 7 */
/* 72 */ NdrFcShort( 0x800c ), /* Simple arm
type: FC_DOUBLE */
/* 74 */ NdrFcLong( 0x8 ), /* 8 */
/* 78 */ NdrFcShort( 0xd0 ), /* Offset= 208 (286) */
/* 80 */ NdrFcLong( 0xd ), /* 13 */
/* 84 */ NdrFcShort( 0xe4 ), /* Offset= 228 (312) */
/* 86 */ NdrFcLong( 0x9 ), /* 9 */
/* 90 */ NdrFcShort( 0xf0 ), /* Offset= 240 (330) */
/* 92 */ NdrFcLong( 0x2000 ), /* 8192 */
/* 96 */ NdrFcShort( 0xfc ), /* Offset= 252 (348) */
/* 98 */ NdrFcLong( 0x24 ), /* 36 */
/* 102 */ NdrFcShort( 0x2f4 ), /* Offset=
756 (858) */
/* 104 */ NdrFcLong( 0x4024 ), /* 16420 */
/* 108 */ NdrFcShort( 0x2ee ), /* Offset=
750 (858) */
/* 110 */ NdrFcLong( 0x4011 ), /* 16401 */
/* 114 */ NdrFcShort( 0x2ec ), /* Offset=
748 (862) */
/* 116 */ NdrFcLong( 0x4002 ), /* 16386 */
/* 120 */ NdrFcShort( 0x2ea ), /* Offset=
746 (866) */
/* 122 */ NdrFcLong( 0x4003 ), /* 16387 */

```

```

/* 126 */ NdrFcShort( 0x2e8 ), /* Offset=
744 (870) */
/* 128 */ NdrFcLong( 0x4004 ), /* 16388 */
/* 132 */ NdrFcShort( 0x2e6 ), /* Offset=
742 (874) */
/* 134 */ NdrFcLong( 0x4005 ), /* 16389 */
/* 138 */ NdrFcShort( 0x2e4 ), /* Offset=
740 (878) */
/* 140 */ NdrFcLong( 0x400b ), /* 16395 */
/* 144 */ NdrFcShort( 0x2d2 ), /* Offset=
722 (866) */
/* 146 */ NdrFcLong( 0x400a ), /* 16394 */
/* 150 */ NdrFcShort( 0x2d0 ), /* Offset=
720 (870) */
/* 152 */ NdrFcLong( 0x4006 ), /* 16390 */
/* 156 */ NdrFcShort( 0x2d6 ), /* Offset=
726 (882) */
/* 158 */ NdrFcLong( 0x4007 ), /* 16391 */
/* 162 */ NdrFcShort( 0x2cc ), /* Offset=
716 (878) */
/* 164 */ NdrFcLong( 0x4008 ), /* 16392 */
/* 168 */ NdrFcShort( 0x2ce ), /* Offset=
718 (886) */
/* 170 */ NdrFcLong( 0x400d ), /* 16397 */
/* 174 */ NdrFcShort( 0x2cc ), /* Offset=
716 (890) */
/* 176 */ NdrFcLong( 0x4009 ), /* 16393 */
/* 180 */ NdrFcShort( 0x2ca ), /* Offset=
714 (894) */
/* 182 */ NdrFcLong( 0x6000 ), /* 24576 */
/* 186 */ NdrFcShort( 0x2c8 ), /* Offset=
712 (898) */
/* 188 */ NdrFcLong( 0x400c ), /* 16396 */
/* 192 */ NdrFcShort( 0x2c6 ), /* Offset=
710 (902) */
/* 194 */ NdrFcLong( 0x10 ), /* 16 */
/* 198 */ NdrFcShort( 0x8002 ), /* Simple arm
type: FC_CHAR */
/* 200 */ NdrFcLong( 0x12 ), /* 18 */
/* 204 */ NdrFcShort( 0x8006 ), /* Simple arm
type: FC_SHORT */
/* 206 */ NdrFcLong( 0x13 ), /* 19 */
/* 210 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 212 */ NdrFcLong( 0x16 ), /* 22 */
/* 216 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 218 */ NdrFcLong( 0x17 ), /* 23 */
/* 222 */ NdrFcShort( 0x8008 ), /* Simple arm
type: FC_LONG */
/* 224 */ NdrFcLong( 0xe ), /* 14 */
/* 228 */ NdrFcShort( 0x2aa ), /* Offset=
682 (910) */
/* 230 */ NdrFcLong( 0x400e ), /* 16398 */
/* 234 */ NdrFcShort( 0x2b0 ), /* Offset=
688 (922) */
/* 236 */ NdrFcLong( 0x4010 ), /* 16400 */
/* 240 */ NdrFcShort( 0x2ae ), /* Offset=
686 (926) */
/* 242 */ NdrFcLong( 0x4012 ), /* 16402 */
/* 246 */ NdrFcShort( 0x26c ), /* Offset=
620 (866) */
/* 248 */ NdrFcLong( 0x4013 ), /* 16403 */

```

```

/* 252 */ NdrFcShort( 0x26a ), /* Offset=
618 (870) */
/* 254 */ NdrFcLong( 0x4016 ), /* 16406 */
/* 258 */ NdrFcShort( 0x264 ), /* Offset=
612 (870) */
/* 260 */ NdrFcLong( 0x4017 ), /* 16407 */
/* 264 */ NdrFcShort( 0x25e ), /* Offset=
606 (870) */
/* 266 */ NdrFcLong( 0x0 ), /* 0 */
/* 270 */ NdrFcShort( 0x0 ), /* Offset= 0 (270) */
/* 272 */ NdrFcLong( 0x1 ), /* 1 */
/* 276 */ NdrFcShort( 0x0 ), /* Offset= 0 (276) */
/* 278 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(277) */
/* 280 */
FC_STRUCT */
/* 0x15, */
/* 0x7, */
7 */
/* 282 */ NdrFcShort( 0x8 ), /* 8 */
/* 284 */ 0xb, /* FC_HYPER */
/* 0x5b, */
FC_END */
/* 286 */
/* 0x12, 0x0, */
FC_UP */
/* 288 */ NdrFcShort( 0xe ), /* Offset= 14 (302) */
/* 290 */
/* 0x1b, */
FC_CARRAY */
/* 0x1, */
1 */
/* 292 */ NdrFcShort( 0x2 ), /* 2 */
/* 294 */ 0x9, /* Corr desc: FC_ULONG
*/
/* 0x0, */
/*
*/
/* 296 */ NdrFcShort( 0xffffc ), /* -4 */
/* 298 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 300 */ 0x6, /* FC_SHORT */
/* 0x5b, */
FC_END */
/* 302 */
/* 0x17, */
FC_CSTRUCT */
/* 0x3, */
3 */
/* 304 */ NdrFcShort( 0x8 ), /* 8 */
/* 306 */ NdrFcShort( 0xffffffff0 ), /* Offset= -
16 (290) */
/* 308 */ 0x8, /* FC_LONG */
/* 0x8, */
FC_LONG */
/* 310 */ 0x5c, /* FC_PAD */
/* 0x5b, */
FC_END */
/* 312 */
/* 0x2f, */
FC_IP */
/* 0x5a, */
FC_CONSTANT_IID */
/* 314 */ NdrFcLong( 0x0 ), /* 0 */

```

```

/* 318 */ NdrFcShort( 0x0 ), /* 0 */
/* 320 */ NdrFcShort( 0x0 ), /* 0 */
/* 322 */ 0xc0, /* 192 */
/* 0x0, */
/* 324 */ 0x0, /* 0 */
/* 0x0, */
/* 326 */ 0x0, /* 0 */
/* 0x0, */
/* 328 */ 0x0, /* 0 */
/* 0x46, */
/* 70 */
/* 330 */
FC_IP */
/* 0x2f, */
/* 0x5a, */
FC_CONSTANT_IID */
/* 332 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 336 */ NdrFcShort( 0x0 ), /* 0 */
/* 338 */ NdrFcShort( 0x0 ), /* 0 */
/* 340 */ 0xc0, /* 192 */
/* 0x0, */
/* 342 */ 0x0, /* 0 */
/* 0x0, */
/* 344 */ 0x0, /* 0 */
/* 0x0, */
/* 346 */ 0x0, /* 0 */
/* 0x46, */
/* 70 */
/* 348 */
/* 0x12, 0x10, */
FC_UP [pointer_deref] */
/* 350 */ NdrFcShort( 0x2 ), /* Offset= 2 (352) */
/* 352 */
/* 0x12, 0x0, */
FC_UP */
/* 354 */ NdrFcShort( 0x1e6 ), /* Offset=
486 (840) */
/* 356 */
/* 0x2a, */
FC_ENCAPSULATED_UNION */
/* 0x89, */
137 */
/* 358 */ NdrFcShort( 0x20 ), /* 32 */
/* 360 */ NdrFcShort( 0xa ), /* 10 */
/* 362 */ NdrFcLong( 0x8 ), /* 8 */
/* 366 */ NdrFcShort( 0x50 ), /* Offset= 80 (446) */
/* 368 */ NdrFcLong( 0xd ), /* 13 */
/* 372 */ NdrFcShort( 0x70 ), /* Offset= 112 (484) */
/* 374 */ NdrFcLong( 0x9 ), /* 9 */
/* 378 */ NdrFcShort( 0x90 ), /* Offset= 144 (522) */
/* 380 */ NdrFcLong( 0xc ), /* 12 */
/* 384 */ NdrFcShort( 0xb0 ), /* Offset= 176 (560) */
/* 386 */ NdrFcLong( 0x24 ), /* 36 */
/* 390 */ NdrFcShort( 0x104 ), /* Offset=
260 (650) */
/* 392 */ NdrFcLong( 0x800d ), /* 32781 */

```

```

/* 396 */ NdrFcShort( 0x120 ), /* Offset=
288 (684) */
/* 398 */ NdrFcLong( 0x10 ), /* 16 */
/* 402 */ NdrFcShort( 0x13a ), /* Offset=
314 (716) */
/* 404 */ NdrFcLong( 0x2 ), /* 2 */
/* 408 */ NdrFcShort( 0x150 ), /* Offset=
336 (744) */
/* 410 */ NdrFcLong( 0x3 ), /* 3 */
/* 414 */ NdrFcShort( 0x166 ), /* Offset=
358 (772) */
/* 416 */ NdrFcLong( 0x14 ), /* 20 */
/* 420 */ NdrFcShort( 0x17c ), /* Offset=
380 (800) */
/* 422 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(421) */
/* 424 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 426 */ NdrFcShort( 0x0 ), /* 0 */
/* 428 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 430 */ NdrFcShort( 0x0 ), /* 0 */
/* 432 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 434 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 438 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 440 */
0x12, 0x0, /*
FC_UP */
/* 442 */ NdrFcShort( 0xffffffff74 ), /* Offset= -
140 (302) */
/* 444 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 446 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 448 */ NdrFcShort( 0x10 ), /* 16 */
/* 450 */ NdrFcShort( 0x0 ), /* 0 */
/* 452 */ NdrFcShort( 0x6 ), /* Offset= 6 (458) */
/* 454 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 456 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 458 */
0x11, 0x0, /*
FC_RP */
/* 460 */ NdrFcShort( 0xffffffffdc ), /* Offset= -
36 (424) */
/* 462 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */

```

```

/* 464 */ NdrFcShort( 0x0 ), /* 0 */
/* 466 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 468 */ NdrFcShort( 0x0 ), /* 0 */
/* 470 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 472 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 476 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 478 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 480 */ NdrFcShort( 0xffffffff58 ), /* Offset= -
168 (312) */
/* 482 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 484 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 486 */ NdrFcShort( 0x10 ), /* 16 */
/* 488 */ NdrFcShort( 0x0 ), /* 0 */
/* 490 */ NdrFcShort( 0x6 ), /* Offset= 6 (496) */
/* 492 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 494 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 496 */
0x11, 0x0, /*
FC_RP */
/* 498 */ NdrFcShort( 0xffffffffdc ), /* Offset= -
36 (462) */
/* 500 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 502 */ NdrFcShort( 0x0 ), /* 0 */
/* 504 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 506 */ NdrFcShort( 0x0 ), /* 0 */
/* 508 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 510 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 514 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 518 */ NdrFcShort( 0xffffffff44 ), /* Offset= -
188 (330) */
/* 520 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 522 */

```

```

0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 524 */ NdrFcShort( 0x10 ), /* 16 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 532 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 534 */
0x11, 0x0, /*
FC_RP */
/* 536 */ NdrFcShort( 0xffffffffdc ), /* Offset= -
36 (500) */
/* 538 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 540 */ NdrFcShort( 0x0 ), /* 0 */
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 544 */ NdrFcShort( 0x0 ), /* 0 */
/* 546 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 548 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 552 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 554 */
0x12, 0x0, /*
FC_UP */
/* 556 */ NdrFcShort( 0x176 ), /* Offset=
374 (930) */
/* 558 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 560 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 562 */ NdrFcShort( 0x10 ), /* 16 */
/* 564 */ NdrFcShort( 0x0 ), /* 0 */
/* 566 */ NdrFcShort( 0x6 ), /* Offset= 6 (572) */
/* 568 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 570 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 572 */
0x11, 0x0, /*
FC_RP */
/* 574 */ NdrFcShort( 0xffffffffdc ), /* Offset= -
36 (538) */
/* 576 */
0x2f, /*
FC_IP */

```

```

                                0x5a,          /*
FC_CONSTANT_IID */
/* 578 */ NdrPcLong( 0x2f ), /* 47 */
/* 582 */ NdrPcShort( 0x0 ), /* 0 */
/* 584 */ NdrPcShort( 0x0 ), /* 0 */
/* 586 */ 0xc0,              /* 192 */
                                0x0,          /*
0 */
/* 588 */ 0x0,               /* 0 */
                                0x0,          /*
0 */
/* 590 */ 0x0,               /* 0 */
                                0x0,          /*
0 */
/* 592 */ 0x0,               /* 0 */
                                0x46,         /*
70 */
/* 594 */
FC_CARRAY */
                                0x1b,         /*
0 */
/* 596 */ NdrPcShort( 0x1 ), /* 1 */
/* 598 */ 0x19,              /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 600 */ NdrPcShort( 0x4 ), /* 4 */
/* 602 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 604 */ 0x1,                /* FC_BYTE */
                                0x5b,         /*
FC_END */
/* 606 */
FC_BOGUS_STRUCT */
                                0x1a,         /*
3 */
/* 608 */ NdrPcShort( 0x18 ), /* 24 */
/* 610 */ NdrPcShort( 0x0 ), /* 0 */
/* 612 */ NdrPcShort( 0xc ), /* Offset= 12 (624) */
/* 614 */ 0x8,                /* FC_LONG */
                                0x8,          /*
FC_LONG */
/* 616 */ 0x4c,              /* FC_EMBEDDED_COMPLEX
*/
                                0x0,          /*
0 */
/* 618 */ NdrPcShort( 0xfffffd6 ), /* Offset= -
42 (576) */
/* 620 */ 0x39,              /* FC_ALIGNM8 */
                                0x36,         /*
FC_POINTER */
/* 622 */ 0x5c,              /* FC_PAD */
                                0x5b,         /*
FC_END */
/* 624 */
                                0x12, 0x0,     /*
FC_UP */
/* 626 */ NdrPcShort( 0xfffffe0 ), /* Offset= -
32 (594) */
/* 628 */

```

```

                                0x21,          /*
FC_BOGUS_ARRAY */
                                0x3,          /*
3 */
/* 630 */ NdrPcShort( 0x0 ), /* 0 */
/* 632 */ 0x19,              /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 634 */ NdrPcShort( 0x0 ), /* 0 */
/* 636 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 638 */ NdrPcLong( 0xffffffff ), /* -1 */
/* 642 */ NdrPcShort( 0x0 ), /* Corr flags: */
/* 644 */
                                0x12, 0x0,     /*
FC_UP */
/* 646 */ NdrPcShort( 0xfffffd8 ), /* Offset= -
40 (606) */
/* 648 */ 0x5c,              /* FC_PAD */
                                0x5b,         /*
FC_END */
/* 650 */
                                0x1a,         /*
FC_BOGUS_STRUCT */
                                0x3,          /*
3 */
/* 652 */ NdrPcShort( 0x10 ), /* 16 */
/* 654 */ NdrPcShort( 0x0 ), /* 0 */
/* 656 */ NdrPcShort( 0x6 ), /* Offset= 6 (662) */
/* 658 */ 0x8,                /* FC_LONG */
                                0x39,         /*
FC_ALIGNM8 */
/* 660 */ 0x36,              /* FC_POINTER */
                                0x5b,         /*
FC_END */
/* 662 */
                                0x11, 0x0,     /*
FC_RP */
/* 664 */ NdrPcShort( 0xfffffdc ), /* Offset= -
36 (628) */
/* 666 */
                                0x1d,         /*
FC_SMPARRAY */
                                0x0,          /*
0 */
/* 668 */ NdrPcShort( 0x8 ), /* 8 */
/* 670 */ 0x1,                /* FC_BYTE */
                                0x5b,         /*
FC_END */
/* 672 */
                                0x15,         /*
FC_STRUCT */
                                0x3,          /*
3 */
/* 674 */ NdrPcShort( 0x10 ), /* 16 */
/* 676 */ 0x8,                /* FC_LONG */
                                0x6,          /*
FC_SHORT */
/* 678 */ 0x6,                /* FC_SHORT */
                                0x4c,         /*
FC_EMBEDDED_COMPLEX */
/* 680 */ 0x0,                /* 0 */

```

```

                                NdrPcShort( 0xffffffff
), /* Offset= -15 (666) */
                                0x5b,         /*
FC_END */
/* 684 */
                                0x1a,         /*
FC_BOGUS_STRUCT */
                                0x3,          /*
3 */
/* 686 */ NdrPcShort( 0x20 ), /* 32 */
/* 688 */ NdrPcShort( 0x0 ), /* 0 */
/* 690 */ NdrPcShort( 0xa ), /* Offset= 10 (700) */
/* 692 */ 0x8,                /* FC_LONG */
                                0x39,         /*
FC_ALIGNM8 */
/* 694 */ 0x36,              /* FC_POINTER */
                                0x4c,         /*
FC_EMBEDDED_COMPLEX */
/* 696 */ 0x0,                /* 0 */
                                NdrPcShort( 0xffffffe7
), /* Offset= -25 (672) */
                                0x5b,         /*
FC_END */
/* 700 */
                                0x11, 0x0,     /*
FC_RP */
/* 702 */ NdrPcShort( 0xfffff10 ), /* Offset= -
240 (462) */
/* 704 */
                                0x1b,         /*
FC_CARRAY */
                                0x0,          /*
0 */
/* 706 */ NdrPcShort( 0x1 ), /* 1 */
/* 708 */ 0x19,              /* Corr desc: field
pointer, FC_ULONG */
                                0x0,          /*
*/
/* 710 */ NdrPcShort( 0x0 ), /* 0 */
/* 712 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 714 */ 0x1,                /* FC_BYTE */
                                0x5b,         /*
FC_END */
/* 716 */
                                0x1a,         /*
FC_BOGUS_STRUCT */
                                0x3,          /*
3 */
/* 718 */ NdrPcShort( 0x10 ), /* 16 */
/* 720 */ NdrPcShort( 0x0 ), /* 0 */
/* 722 */ NdrPcShort( 0x6 ), /* Offset= 6 (728) */
/* 724 */ 0x8,                /* FC_LONG */
                                0x39,         /*
FC_ALIGNM8 */
/* 726 */ 0x36,              /* FC_POINTER */
                                0x5b,         /*
FC_END */
/* 728 */
                                0x12, 0x0,     /*
FC_UP */
/* 730 */ NdrPcShort( 0xfffffe6 ), /* Offset= -
26 (704) */

```



```

/* 732 */
FC_CARRAY */
1 */
/* 734 */ NdrFcShort( 0x2 ), /* 2 */
/* 736 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 738 */ NdrFcShort( 0x0 ), /* 0 */
/* 740 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 742 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 744 */
FC_BOGUS_STRUCT */
0x1a, /*
0x3, /*
3 */
/* 746 */ NdrFcShort( 0x10 ), /* 16 */
/* 748 */ NdrFcShort( 0x0 ), /* 0 */
/* 750 */ NdrFcShort( 0x6 ), /* Offset= 6 (756) */
/* 752 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 754 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 756 */
0x12, 0x0, /*
FC_UP */
/* 758 */ NdrFcShort( 0xfffffe6 ), /* Offset= -
26 (732) */
/* 760 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 762 */ NdrFcShort( 0x4 ), /* 4 */
/* 764 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 766 */ NdrFcShort( 0x0 ), /* 0 */
/* 768 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 770 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 772 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 774 */ NdrFcShort( 0x10 ), /* 16 */
/* 776 */ NdrFcShort( 0x0 ), /* 0 */
/* 778 */ NdrFcShort( 0x6 ), /* Offset= 6 (784) */
/* 780 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 782 */ 0x36, /* FC_POINTER */

```

```

FC_END */
/* 784 */
0x5b, /*
0x12, 0x0, /*
FC_UP */
/* 786 */ NdrFcShort( 0xfffffe6 ), /* Offset= -
26 (760) */
/* 788 */
0x1b, /*
FC_CARRAY */
0x7, /*
7 */
/* 790 */ NdrFcShort( 0x8 ), /* 8 */
/* 792 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 794 */ NdrFcShort( 0x0 ), /* 0 */
/* 796 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 798 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 800 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 802 */ NdrFcShort( 0x10 ), /* 16 */
/* 804 */ NdrFcShort( 0x0 ), /* 0 */
/* 806 */ NdrFcShort( 0x6 ), /* Offset= 6 (812) */
/* 808 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 810 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 812 */
0x12, 0x0, /*
FC_UP */
/* 814 */ NdrFcShort( 0xfffffe6 ), /* Offset= -
26 (788) */
/* 816 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 818 */ NdrFcShort( 0x8 ), /* 8 */
/* 820 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 822 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 824 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 826 */ NdrFcShort( 0x8 ), /* 8 */
/* 828 */ 0x7, /* Corr desc: FC_USHORT
*/

```

```

0x0, /*
*/
/* 830 */ NdrFcShort( 0xffc8 ), /* -56 */
/* 832 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 834 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 836 */ NdrFcShort( 0xfffffec ), /* Offset= -
20 (816) */
/* 838 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 840 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 842 */ NdrFcShort( 0x38 ), /* 56 */
/* 844 */ NdrFcShort( 0xfffffec ), /* Offset= -
20 (824) */
/* 846 */ NdrFcShort( 0x0 ), /* Offset= 0 (846) */
/* 848 */ 0x6, /* FC_SHORT */
0x6, /*
FC_SHORT */
/* 850 */ 0x38, /* FC_ALIGNM4 */
0x8, /*
FC_LONG */
/* 852 */ 0x8, /* FC_LONG */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 854 */ 0x4, /* 4 */
NdrFcShort( 0xfffffe0d
), /* Offset= -499 (356) */
0x5b, /*
FC_END */
/* 858 */
0x12, 0x0, /*
FC_UP */
/* 860 */ NdrFcShort( 0xfffff02 ), /* Offset= -
254 (606) */
/* 862 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 864 */ 0x1, /* FC_BYTE */
0x5c, /*
FC_PAD */
/* 866 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 868 */ 0x6, /* FC_SHORT */
0x5c, /*
FC_PAD */
/* 870 */
0x12, 0x8, /*
FC_UP [simple_pointer] */
/* 872 */ 0x8, /* FC_LONG */
0x5c, /*
FC_PAD */
/* 874 */
0x12, 0x8, /*
FC_UP [simple_pointer] */

```

```

/* 876 */ 0xa,          /* FC_FLOAT */
FC_PAD /*
/* 878 */
FC_UP [simple_pointer] /*
/* 880 */ 0xc,          /* FC_DOUBLE */
FC_PAD /*
/* 882 */
FC_UP /*
/* 884 */ NdrFcShort( 0xfffffda4 ), /* Offset= -
604 (280) */
/* 886 */
FC_UP [pointer_deref] /*
/* 888 */ NdrFcShort( 0xfffffda6 ), /* Offset= -
602 (286) */
/* 890 */
FC_UP [pointer_deref] /*
/* 892 */ NdrFcShort( 0xfffffdbc ), /* Offset= -
580 (312) */
/* 894 */
FC_UP [pointer_deref] /*
/* 896 */ NdrFcShort( 0xfffffdca ), /* Offset= -
566 (330) */
/* 898 */
FC_UP [pointer_deref] /*
/* 900 */ NdrFcShort( 0xfffffdd8 ), /* Offset= -
552 (348) */
/* 902 */
FC_UP [pointer_deref] /*
/* 904 */ NdrFcShort( 0x2 ), /* Offset= 2 (906) */
/* 906 */
FC_UP /*
/* 908 */ NdrFcShort( 0x16 ), /* Offset= 22 (930) */
/* 910 */
FC_STRUCT /*
/* 912 */ NdrFcShort( 0x10 ), /* 16 */
/* 914 */ 0x6,          /* FC_SHORT */
FC_BYTE /*
/* 916 */ 0x1,          /* FC_BYTE */
FC_ALIGNM4 /*
/* 918 */ 0x8,          /* FC_LONG */
FC_ALIGNM8 /*
/* 920 */ 0xb,          /* FC_HYPER */
FC_END /*
/* 922 */
FC_UP /*

```

```

/* 924 */ NdrFcShort( 0xfffffff2 ), /* Offset= -
14 (910) */
/* 926 */
FC_UP [simple_pointer] /*
/* 928 */ 0x2,          /* FC_CHAR */
FC_PAD /*
/* 930 */
FC_BOGUS_STRUCT /*
/* 932 */ NdrFcShort( 0x20 ), /* 32 */
/* 934 */ NdrFcShort( 0x0 ), /* 0 */
/* 936 */ NdrFcShort( 0x0 ), /* Offset= 0 (936) */
/* 938 */ 0x8,          /* FC_LONG */
FC_LONG /*
/* 940 */ 0x6,          /* FC_SHORT */
FC_SHORT /*
/* 942 */ 0x6,          /* FC_SHORT */
FC_SHORT /*
/* 944 */ 0x4c,          /* FC_EMBEDDED_COMPLEX
*/
0 /*
/* 946 */ NdrFcShort( 0xfffffc54 ), /* Offset= -
940 (6) */
/* 948 */ 0x5c,          /* FC_PAD */
FC_END /*
/* 950 */ 0xb4,          /* FC_USER_MARSHAL */
131 /*
/* 952 */ NdrFcShort( 0x0 ), /* 0 */
/* 954 */ NdrFcShort( 0x18 ), /* 24 */
/* 956 */ NdrFcShort( 0x0 ), /* 0 */
/* 958 */ NdrFcShort( 0xfffffc44 ), /* Offset= -
956 (2) */
/* 960 */
FC_RP [allocated_on_stack] /*
/* 962 */ NdrFcShort( 0x6 ), /* Offset= 6 (968) */
/* 964 */
FC_OP /*
/* 966 */ NdrFcShort( 0xfffffcdc ), /* Offset= -
36 (930) */
/* 968 */ 0xb4,          /* FC_USER_MARSHAL */
131 /*
/* 970 */ NdrFcShort( 0x0 ), /* 0 */
/* 972 */ NdrFcShort( 0x18 ), /* 24 */
/* 974 */ NdrFcShort( 0x0 ), /* 0 */
/* 976 */ NdrFcShort( 0xfffffff4 ), /* Offset= -
12 (964) */
0x0
};

```

```

const CInterfaceProxyVtbl *
_tpcc_com_ps_ProxyVtblList[] =
{
    ( CInterfaceProxyVtbl *) &ITPCCProxyVtbl,
    0
};

const CInterfaceStubVtbl *
_tpcc_com_ps_StubVtblList[] =
{
    ( CInterfaceStubVtbl *) &ITPCCStubVtbl,
    0
};

PCInterfaceName const
_tpcc_com_ps_InterfaceNamesList[] =
{
    "ITPCC",
    0
};

#define _tpcc_com_ps_CHECK_IID(n)
IID_GENERIC_CHECK_IID( _tpcc_com_ps, pIID,
n)

int __stdcall _tpcc_com_ps_IID_Lookup( const IID *
pIID, int * pIndex )
{
    if(! _tpcc_com_ps_CHECK_IID(0))
    {
        *pIndex = 0;
        return 1;
    }

    return 0;
}

const ExtendedProxyFileInfo tpcc_com_ps_ProxyFileInfo
=
{
    (PCInterfaceProxyVtblList *) &
_tpcc_com_ps_ProxyVtblList,
    (PCInterfaceStubVtblList *) &
_tpcc_com_ps_StubVtblList,
    (const PCInterfaceName *) &
_tpcc_com_ps_InterfaceNamesList,
    0, // no delegation
    & _tpcc_com_ps_IID_Lookup,
    1,
    2,
    0, /* table of [async_uuid] interfaces */
    0, /* Filler1 */
    0, /* Filler2 */
    0 /* Filler3 */
};

#endif /* defined(_M_IA64) || defined(_M_AXP64) */

```

tpcc_com_sl.rgs

```
HKCR
{
    TPCC.StockLevel.1 = s 'StockLevel Class'
    {
        CLSID = s '{2668369E-A50D-11D2-BA4E-00C04FBFE08B}'
    }
    TPCC.StockLevel = s 'StockLevel Class'
    {
        CurVer = s 'TPCC.StockLevel.1'
    }
    NoRemove CLSID
    {
        ForceRemove {2668369E-A50D-11D2-BA4E-00C04FBFE08B} = s 'StockLevel Class'
    }
    ProgID = s
    'TPCC.StockLevel.1'
    VersionIndependentProgID = s
    'TPCC.StockLevel'
    InprocServer32 = s
    {
        val
    }
    ThreadingModel = s 'Both'
}
}
```

tpcc_dblib.cpp

```
/* FILE: TPCC_DBLIB.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: Implements dblib calls for TPC-C
txns.
 * Contact: Charles Levine
(clevine@microsoft.com)
 *
 * Change history:
 * 4.20.000 - updated rev number to
match kit
 * 4.10.001 - not deleting error
class in catch handler on deadlock retry;
 * not a
functional bug, but a memory leak
```

```
* - had to
tweak some declarations to compile with latest SDK;
no functional change
*/

#include <windows.h>
#include <stdio.h>
#include <assert.h>

#define DBNTWIN32
#include <sqlfront.h>
#include <sqldb.h>

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

// 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[] = "4.10.000";

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: //
            close all dblib structures/connections
            break;

        default: // nothing */;
    }
    return TRUE;
}
```

```
int err_handler(DBPROCESS *dbproc, int severity, int
dberr, int oserr, LPCSTR dberrstr, LPCSTR oserrstr)
{
    CTPCC_DBLIB
    *pConn;

    assert(dbproc != NULL);
    pConn =
    (CTPCC_DBLIB*)dbgetuserdata(dbproc);

    if (pConn != NULL)
    {
        pConn->SetDbLibError( severity,
        dberr, oserr, dberrstr, oserrstr );
    }
    return INT_CANCEL;
}

/* FUNCTION: int msg_handler(DBPROCESS *dbproc, DBINT
msgno, int msgstate, int severity, char *msgtext)
 *
 * PURPOSE: This function handles DB-Library
SQL Server error messages
 *
 * ARGUMENTS: DBPROCESS *dbproc
DBPROCESS id pointer
DBINT
 *
 * msgno
message number
 *
 * msgstate
message state
 *
 * severity
message severity
 *
 * msgtext
char
printable
message description
 *
 * RETURNS: int
continue if
error is SQLETIME else INT_CANCEL action
 *
INT_CANCEL
cancel operation
 *
 * COMMENTS: This function also sets the dead
lock dbproc variable if necessary.
 *
*/

// typedef INT (SQLAPI *DBMSGHANDLE_PROC) (PDBPROCESS,
DBINT, INT, INT, LPCSTR, LPCSTR, LPCSTR,
DBUSMALLINT);

int msg_handler(DBPROCESS *dbproc, DBINT msgno, int
msgstate, int severity,
LPCSTR
msgtext, LPCSTR srvname, LPCSTR procname, DBUSMALLINT
line)
{
```

```

CTPCC_DBLIB
*pConn;

assert(dbproc != NULL);
pConn =
(CTPCC_DBLIB*)dbgetuserdata(dbproc);

if (pConn != NULL)
{
    pConn->SetSqlError( msgno,
msgstate, severity, msgtext );
}

return 0;
}

/* FUNCTION: void UtilStrCpy(char * pDest, char *
pSrc, int n)
*
* PURPOSE:      This function copies n characters
from string pSrc to pDst and places a
*              null character at the
end of the destination string.
*
* ARGUMENTS:   char
               *pDest destination string pointer
               char
               *pSrc  source string pointer
               int
               n
               number of characters to copy
*
* RETURNS:     None
*
* COMMENTS:    Unlike strncpy this function
ensures that the result string is
               always null
terminated.
*
*/

inline static void UtilStrCpy(char * pDest, const
BYTE * pSrc, int n)
{
    strncpy(pDest, (char *)pSrc, n);
    pDest[n] = '\0';

    return;
}

/* FUNCTION: CTPCC_DBLIB_ERR::ErrorText
*
*/

char* CTPCC_DBLIB_ERR::ErrorText(void)
{
    int i;

    static SERRORMSG errorMsgs[] =
    {
        { ERR_WRONG_SP_VERSION,
"Wrong version of stored procs on database
server" },

```

```

        { ERR_INVALID_CUST,
"Invalid Customer id,name." },
        { ERR_NO_SUCH_ORDER,
"No orders found for customer." },
        { ERR_RETRIED_TRANS,
"Retries before transaction succeeded."
        },
        { 0, ""
        }
    };

    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, SQLINT2, -1, -1, (BYTE *)
&m_txn.StockLevel.w_id); // @w_id
            smallint
            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) &&
<= iMaxRetries))

                {
                    // hit
                    deadlock; backoff for increasingly longer period
                    delete e;
                    Sleep(10 *
iTryCount);

                }
            else
                throw;
        }
    } // while (TRUE)

    //if (iTryCount)
    //    throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_DBLIB::NewOrder()
{
    int          i;
    DBINT        commit_flag;
    DBDATETIME   datetime;

```

```

    DBDATEREC   daterec;

    int          iTryCount =
0;
    const BYTE   *pData;

    ResetError();

    while (TRUE)
    {
        try
        {
            dbrpcinit(m_dbproc,
"tpcc_neworder", 0);

            dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -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, SQLINT2, -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
(dbnxtrow(m_dbproc) != REG_ROW)
            ThrowError(CDBLIBERR::eDbNextRow);

            if(pData=dbdata(m_dbproc, 1))
            UtilStrCpy(m_txn.NewOrder.OL[i].ol_i_name,
pData, dbdatlen(m_dbproc, 1));

            if(pData=dbdata(m_dbproc, 2))
            m_txn.NewOrder.OL[i].ol_stock =
(*)(DBSMALLINT *) pData);

            if(pData=dbdata(m_dbproc, 3))
            UtilStrCpy(m_txn.NewOrder.OL[i].ol_brand_ge
neric, pData, dbdatlen(m_dbproc, 3));

            if(pData=dbdata(m_dbproc, 4))
            dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc, 4),
SQLFLT8, (BYTE
*)&m_txn.NewOrder.OL[i].ol_i_price, 8);

            if(pData=dbdata(m_dbproc, 5))

            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, SQLINT2, -1, -1, (BYTE *)
&m_txn.Payment.w_id);
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -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)
!= SUCCEEDED)
                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,
(LPCBYTE)pData, dbdatlen(m_dbproc,24), SQLFLT8, (BYTE
*)&m_txn.Payment.c_credit_lim, 8);
    if(pData=dbdata(m_dbproc, 25))
        dbconvert(m_dbproc, SQLNUMERIC,

```

```

(LPCTYPE)pData, dbdatlen(m_dbproc,25), SQLFLT8, (BYTE
*)&m_txn.Payment.c_discount, 8);
        if(pData=dbdata(m_dbproc, 26))
            dbconvert(m_dbproc, SQLNUMERIC,
(LPCTYPE)pData, dbdatlen(m_dbproc,26), SQLFLT8, (BYTE
*)&m_txn.Payment.c_balance, 8);
        if(pData=dbdata(m_dbproc, 27))
            UtilStrCpy(m_txn.Payment.c_data, pData,
dbdatlen(m_dbproc, 27));
            DiscardNextRows(0);
            DiscardNextResults(0);
            if (m_txn.Payment.c_id
== 0)
                throw new
CTPCC_DBLIB_ERR( CTPCC_DBLIB_ERR::ERR_INVALID_CUST );
            else
                m_txn.Payment.exec_status_code = eOK;
            return;
        }
        catch (CSQLERR *e)
        {
            if ((e->m_msgno == 1205
||
== iErrOleDbProvider &&
(e->m_msgno
>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
    DBDATETIME datetime;
    DBDATEREK daterec;

```

```

        int
        RETCODE rc;
        const BYTE
        *pData;
        ResetError();
        while (TRUE)
        {
            try
            {
                dbrpcinit(m_dbproc,
"tpcc_orderstatus", 0);
                dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -1, -1, (BYTE *)
&m_txn.OrderStatus.w_id);
                dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.OrderStatus.d_id);
                dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.OrderStatus.c_id);
                // if customer id is
zero, then order status is by name
                if
(m_txn.OrderStatus.c_id == 0)
                    dbrpcparam(m_dbproc, NULL, 0, SQLCHAR, -1,
strlen(m_txn.OrderStatus.c_last), (unsigned char
*)m_txn.OrderStatus.c_last);
                if (dbrpcexec(m_dbproc)
== FAIL)
                    ThrowError(CDBLIBERR::eDbRpcExec);
                // Get order lines
                if (dbresults(m_dbproc)
!= SUCCEED)
                {
                    if
((m_DbLibErr == NULL) && (m_SqlErr == NULL))
                    throw new CTPCC_DBLIB_ERR(
CTPCC_DBLIB_ERR::ERR_NO_SUCH_ORDER );
                    else
                        ThrowError(CDBLIBERR::eDbResults);
                }
                if (dbnumcols(m_dbproc)
!= 5)
                    ThrowError(CDBLIBERR::eWrongNumCols);
                i = 0;
                while (TRUE)
                {

```

```

rc =
dbnextrow(m_dbproc);
NO_MORE_ROWS)
break;
REG_ROW)
if (rc !=
ThrowError(CDBLIBERR::eDbNextRow);
if(pData=dbdata(m_dbproc, 1))
m_txn.OrderStatus.OL[i].ol_supply_w_id =
(* (DBSMALLINT *) pData);
if(pData=dbdata(m_dbproc, 2))
m_txn.OrderStatus.OL[i].ol_i_id = (* (DBINT
*) pData);
if(pData=dbdata(m_dbproc, 3))
m_txn.OrderStatus.OL[i].ol_quantity =
(* (DBSMALLINT *) pData);
if(pData=dbdata(m_dbproc, 4))
dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,4),
SQLFLT8, (BYTE
*)&m_txn.OrderStatus.OL[i].ol_amount, 8);
if(pData=dbdata(m_dbproc, 5))
{
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)
!= 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))
m_txn.OrderStatus.c_id = (* (DBINT *)
pData);
if(pData=dbdata(m_dbproc, 2))
UtilStrCpy(m_txn.OrderStatus.c_last, pData,
dbdatlen(m_dbproc,2));
if(pData=dbdata(m_dbproc, 3))
UtilStrCpy(m_txn.OrderStatus.c_first,
pData, dbdatlen(m_dbproc,3));
if(pData=dbdata(m_dbproc, 4))
UtilStrCpy(m_txn.OrderStatus.c_middle,
pData, dbdatlen(m_dbproc, 4));
if(pData=dbdata(m_dbproc, 5))
{
datetime =
*((DBDATETIME *) pData);
dbdatecrack(m_dbproc, &daterec, &datetime);
m_txn.OrderStatus.o_entry_d.year =
daterec.year;
m_txn.OrderStatus.o_entry_d.month =
daterec.month;
m_txn.OrderStatus.o_entry_d.day =
daterec.day;
m_txn.OrderStatus.o_entry_d.hour =
daterec.hour;
m_txn.OrderStatus.o_entry_d.minute =
daterec.minute;
}

```

```

m_txn.OrderStatus.o_entry_d.second =
daterec.second;
}
if(pData=dbdata(m_dbproc, 6))
m_txn.OrderStatus.o_carrier_id =
(* (DBSMALLINT *) pData);
if(pData=dbdata(m_dbproc, 7))
dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,7),
SQLFLT8, (BYTE
*)&m_txn.OrderStatus.c_balance, 8);
if(pData=dbdata(m_dbproc, 8))
m_txn.OrderStatus.o_id = (* (DBINT *)
pData);
DiscardNextRows(0);
DiscardNextResults(0);
if
(m_txn.OrderStatus.o_ol_cnt == 0)
throw new
CTPCC_DBLIB_ERR( CTPCC_DBLIB_ERR::ERR_NO_SUCH_ORDER
);
else if
(m_txn.OrderStatus.c_id == 0 &&
m_txn.OrderStatus.c_last[0] == 0)
throw new
CTPCC_DBLIB_ERR( CTPCC_DBLIB_ERR::ERR_INVALID_CUST );
else
m_txn.OrderStatus.exec_status_code = eOK;
return;
}
catch (CSQLERR *e)
{
if ((e->m_msgno == 1205
(e->m_msgno
== iErrOleDbProvider &&
strstr(e-
>m_msgtext, sErrTimeoutExpired) != NULL)) &&
(++iTryCount
<= iMaxRetries))
{
// hit
deadlock; backoff for increasingly longer period
delete e;
Sleep(10 *
iTryCount);
}
else
throw;
}
}

```

```

    } // while (TRUE)

// if (iTryCount)
// throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_DBLIB::Delivery()
{
    int i;
    int iTryCount =
0;
    const BYTE *pData;

    ResetError();

    while (TRUE)
    {
        try
        {
            dbrpcinit(m_dbproc,
"tpcc_delivery", 0);

            dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -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
||
(e->m_msgno
== iErrOleDbProvider &&
    strstr(e-
>m_msgtext, sErrTimeoutExpired) != NULL)) &&
(++iTryCount
<= iMaxRetries))
    {
        // hit
        deadlock; backoff for increasingly longer period
        delete e;
        Sleep(10 *
iTryCount);
    }
    else
        throw;
}
} // while (TRUE)

// if (iTryCount)
// throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_DBLIB::ResetError()
{
    if (m_DbLibErr != NULL)
    {
        delete m_DbLibErr;
        m_DbLibErr = (CDBLIBERR*)NULL;
    }

    if (m_SqlErr != NULL)
    {
        delete m_SqlErr;
        m_SqlErr = (CSQLERR*)NULL;
    }

    return;
}

```

tpcc_dblib.h

```

/* FILE: 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.
#ifndef DllDecl
#define DllDecl __declspec( dllimport )
#endif

class CSQLERR : public CBaseErr
{
public:
    CSQLERR(void)
    {
        m_msgno = 0;
        m_msgstate = 0;
        m_severity = 0;
        m_msgtext = NULL;
    };

    ~CSQLERR()
    {
        delete [] m_msgtext;
    };

    int m_msgno;
    int m_msgstate;
    int m_severity;
    char *m_msgtext;

    int ErrorType() {return
ERR_TYPE_SQL;};

    int ErrorNum() {return m_msgno;};
    char *ErrorText() {return
m_msgtext;};
};

class CDBLIBERR : public CBaseErr
{
public:
    enum ACTION
    {
        eNone,
        eUnknown,
        eLogin,
        // error from dblogin
        eDbOpen,
        // error from dbopen
    };
};

```

```

        eDbUse,
// error from dbuse
        eDbSqlExec,
// error from dbsqlexec
        eDbSet,
// error from one of the dbset*
routines
        eDbNextRow,
// error from dbnextrow
        eWrongRowCount,
// more or less rows returned than expected
        eWrongNumCols,
// more or less columns returned than
expected
        eDbResults,
// error from dbresults
        eDbRpcExec,
// error from dbrpcexec
        eDbSetMaxProcs,
// error from dbsetmaxprocs
        eDbProcHandler
// error from either dbprocerrhandle or
dbprocmsghandle
    };

    CDBLIBERR(ACTION eAction, int
severity = 0, int dberror = 0, int oserr = 0)
    {
        m_eAction = eAction;
        m_severity = severity;
        m_dberror = dberror;
        m_oserr = oserr;

        m_dberrstr = NULL;
        m_oserrstr = NULL;
    };

~CDBLIBERR()
{
    delete [] m_dberrstr;
    delete [] m_oserrstr;
};

ACTION    m_eAction;
int       m_severity;
int       m_dberror;
int       m_oserr;
char     *m_dberrstr;
char     *m_oserrstr;

int ErrorType() {return
ERR_TYPE_DBLIB;};
int ErrorNum() {return
m_dberror;};
char *ErrorText() {return
m_dberrstr;};
};

class CTPCC_DBLIB_ERR : public CBaseErr
{
public:
    enum CTPCC_DBLIB_ERRS

```

```

    {
        ERR_WRONG_SP_VERSION =
1, // "Wrong version of stored procs on
database server"
        ERR_INVALID_CUST,
// "Invalid Customer id,name."
        ERR_NO_SUCH_ORDER,
// "No orders found for
customer."
        ERR_RETRIED_TRANS,
// "Retries before transaction
succeeded."
    };

    CTPCC_DBLIB_ERR( int iErr ) {
m_errno = iErr; m_iTryCount = 0; };

    CTPCC_DBLIB_ERR( int iErr, int
iTryCount ) { m_errno = iErr; m_iTryCount =
iTryCount; };

    int m_errno;
    int m_iTryCount;

    int ErrorType() {return
ERR_TYPE_TPCC_DBLIB;};
    int ErrorNum() {return m_errno;};

    char *ErrorText();
};

class DllDecl CTPCC_DBLIB : public CTPCC_BASE
{
private:
// declare variables and private
functions here...
    PDBPROCESS m_dbproc;
    CDBLIBERR *m_DbLibErr;
// not allocated until needed (maybe never)
    CSQLERR *m_SqlErr;
// not allocated until
needed (maybe never)
    int m_MaxRetries; // retry
count on deadlock

    void DiscardNextRows(int
iExpectedCount);
    void DiscardNextResults(int
iExpectedCount);
    void ThrowError(
CDBLIBERR::ACTION eAction );
    void ResetError();

    union
    {
        NEW_ORDER_DATA
        Payment;
        DELIVERY_DATA
        Delivery;
    };
};

```

```

        STOCK_LEVEL_DATA
        StockLevel;
        ORDER_STATUS_DATA
        OrderStatus;
    };
    m_txn;
public:
    CTPCC_DBLIB(LPCSTR szServer,
LPCSTR szUser, LPCSTR szPassword, LPCSTR szHost,
LPCSTR szDatabase );
    ~CTPCC_DBLIB(void);

    inline PNEW_ORDER_DATA
    BuffAddr_NewOrder() { return
&m_txn.NewOrder; };
    inline PPAYMENT_DATA
    BuffAddr_Payment() { return
&m_txn.Payment; };
    inline PDELIVERY_DATA
    BuffAddr_Delivery() { return
&m_txn.Delivery; };
    inline PSTOCK_LEVEL_DATA
    BuffAddr_StockLevel() { return
&m_txn.StockLevel; };
    inline PORDER_STATUS_DATA
    BuffAddr_OrderStatus() { return
&m_txn.OrderStatus; };

    void NewOrder ();
    void Payment ();
    void Delivery ();
    void StockLevel ();
    void OrderStatus ();

// these are public because they
must be called from the dblib err_handler and
msg_hangler
// outside of the class
    void SetDbLibError(int severity,
int dberr, int oserr, LPCSTR dberrstr, LPCSTR
oserrstr);
    void SetSqlError( int msgno, int
msgstate, int severity, LPCSTR msgtext );
};

extern "C" DllDecl CTPCC_DBLIB* CTPCC_DBLIB_new
( LPCSTR szServer, LPCSTR szUser, LPCSTR
szPassword, LPCSTR szHost, LPCSTR szDatabase );

typedef CTPCC_DBLIB* (TYPE_CTPCC_DBLIB)(LPCSTR,
LPCSTR, LPCSTR, LPCSTR, LPCSTR);

tpcc_odbc.cpp
/* FILE: TPCC_ODBC.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: Implements ODBC calls for TPC-C
txns.
* Contact: Charles Levine
(clevine@microsoft.com)
*
* Change history:
* 4.20.000 - updated rev number to
match kit
* 4.10.001 - not deleting error
class in catch handler on deadlock retry;
* not a
functional bug, but a memory leak
*/

#include <windows.h>
#include <stdio.h>
#include <assert.h>

#define DBNTWIN32
#include <sqltypes.h>
#include <sql.h>
#include <sqlext.h>
#include <odbcss.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_odbc.h"

// version string; must match return value from
tpcc_version stored proc
const char sVersion[] = "4.10.000";

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 WINAPIENTRY 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
{
return new CTPCC_ODBC( szServer, szUser,
szPassword, szHost, szDatabase );
}

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
)
{
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;

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;

        sprintf( szConnectStr,
"DRIVER=SQL
Server;SERVER=%s;UID=%s;PWD=%s;DATABASE=%s",
                szServer, szUser,
szPassword, szDatabase );

        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 &&
        strstr(szMsg,
sErrTimeoutExpired) != NULL))
            pODBCErr->m_bDeadLock =
TRUE;

        // capture the (first) database
error
        if (pODBCErr->m_NativeError == 0
&& lNativeError != 0)
            pODBCErr->m_NativeError
= lNativeError;

        // quit if there isn't enough
room to concatenate
error text
        if ( (strlen(szMsg) + 2) >
(sizeof(szTmp) - strlen(szTmp)) )
            break;

        // include line break after first
error msg
        if (szTmp[0] != 0)
            strcat( szTmp, "\n");
        strcat( szTmp, szMsg );
    }

    if (pODBCErr->m_odbcerrstr != NULL)
    {
        delete [] pODBCErr->m_odbcerrstr;
        pODBCErr->m_odbcerrstr = NULL;
    }

    if (strlen(szTmp) > 0)
    {
        pODBCErr->m_odbcerrstr = new
char[ strlen(szTmp)+1 ];
        strcpy( pODBCErr->m_odbcerrstr,
szTmp );
    }

    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_SSHORT, SQL_SMALLINT, 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);
}

void CTPCC_ODBC::StockLevel()
{
    RETCODE          rc;
    int              iTryCount =
0;

    m_hstmt = m_hstmtStockLevel;

    while (TRUE)
    {
        try
        {
            rc =
SQLExecDirectW(m_hstmt, (SQLWCHAR*)L"call
tpcc_stocklevel(?,?,?)", SQL_NTS);
            if (rc != SQL_SUCCESS
&& rc != SQL_SUCCESS_WITH_INFO)
                ThrowError(CODBCERR::eExecDirect);

            if ( SQLFetch(m_hstmt)
== SQL_ERROR )
                ThrowError(CODBCERR::eFetch);

            SQLFreeStmt(m_hstmt,
SQL_CLOSE);

            m_txn.StockLevel.exec_status_code = eOK;
            break;
        }
        catch (CODBCERR *e)
        {
            if (!e->m_bDeadLock)
                || (++iTryCount > iMaxRetries))
                    throw;

            // hit deadlock;
            backoff for increasingly longer period
            delete e;
            Sleep(10 * iTryCount);
        }
    }

    // if (iTryCount)

```

```

// throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_ODBC::InitNewOrderParams()
{
    if ( SQLAllocHandle(SQL_HANDLE_STMT,
m_hdbc, &m_hstmtNewOrder) != SQL_SUCCESS
    )
        ||
SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc,
&m_descNewOrderCols1) != SQL_SUCCESS
    )
        ||
SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc,
&m_descNewOrderCols2) != 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_SSHORT, SQL_SMALLINT, 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_SSHORT, SQL_SMALLINT, 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);
}

void CTPCC_ODBC::NewOrder()
{
    int
    i;
    RETCODE rc;
    int
    iTryCount = 0;

0        1        2        //
//
012345678901234567890123456789
    wchar_t
    szSqlTemplate[] = L"(call
tpcc_neworder(?,?,?,?,"

L"?,?,?,?,?,?,?,?,?,?,?,"

L"?,?,?,?,?,?,?,?,?,?,?,?,"

L"?,?,?,?,?,?,?,?,?,?,?,?)";

    m_hstmt = m_hstmtNewOrder;

    // associate the parameter and column
bindings for this transaction
    if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC, m_descNewOrderCols1,
SQL_IS_POINTER ) != SQL_SUCCESS )

        ThrowError(CODBCERR::eSetStmtAttr);

    // clip statement buffer based on number of
parameters
    // fixed part is 29 chars and variable part
is 6 chars per line item
    i = 29 + 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, (SQLWCHAR*)szSqlTemplate,
SQL_NTS);
        if (rc != SQL_SUCCESS
&& rc != SQL_SUCCESS_WITH_INFO)

            ThrowError(CODBCERR::eExecDirect);

        // Get order line
results

        m_txn.NewOrder.total_amount = 0;
        for ( i = 0;
i<m_txn.NewOrder.o_ol_cnt; i++)
        {
            // set the
bind offset value...
            m_BindOffset
= i * sizeof(m_txn.NewOrder.OL[0]);

            if (
SQLFetch(m_hstmt) == SQL_ERROR)

                ThrowError(CODBCERR::eFetch);

            // move to
the next resultset

            if (
SQLMoreResults(m_hstmt) == SQL_ERROR )

                ThrowError(CODBCERR::eMoreResults);

            m_txn.NewOrder.total_amount +=
m_txn.NewOrder.OL[i].ol_amount;
        }

        // associate the column
bindings for the second result set
        if ( SQLSetStmtAttrW(
m_hstmt, SQL_ATTR_APP_ROW_DESC, m_descNewOrderCols2,
SQL_IS_POINTER ) != SQL_SUCCESS )

            ThrowError(CODBCERR::eSetStmtAttr);

            if ( SQLFetch(m_hstmt)
== SQL_ERROR)

                ThrowError(CODBCERR::eFetch);

            SQLFreeStmt( m_hstmt,
SQL_CLOSE);

```

```

        if (m_no_commit_flag ==
1)
        {
            m_txn.NewOrder.total_amount *= ((1 +
m_txn.NewOrder.w_tax + m_txn.NewOrder.d_tax) * (1 -
m_txn.NewOrder.c_discount));

            m_txn.NewOrder.exec_status_code = eOK;
        }
        else

            m_txn.NewOrder.exec_status_code =
eInvalidItem;

            break;
        }
    catch (CODBCERR *e)
    {
        if (!(e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
            throw;

        // hit deadlock;
backoff for increasingly longer period
        delete e;
        Sleep(10 * iTryCount);
    }

    // if (iTryCount)
    // throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

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_SSHORT, SQL_SMALLINT, 0, 0,
&m_txn.Payment.w_id, 0, NULL) != SQL_SUCCESS
|| SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT, 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);
}

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, (SQLWCHAR*)L"{call
tpcc_payment(?,?,?,?,?,?)}" , 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_SSHORT, SQL_SMALLINT, 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_SSHORT,
&m_txn.OrderStatus.OL[0].ol_supply_w_id, 0, NULL) !=
SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG, &m_txn.OrderStatus.OL[0].ol_i_id, 0,
NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_SSHORT, &m_txn.OrderStatus.OL[0].ol_quantity,
0, NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE, &m_txn.OrderStatus.OL[0].ol_amount, 0,
NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_TYPE_TIMESTAMP,
&m_txn.OrderStatus.OL[0].ol_delivery_d, 0, NULL) !=
SQL_SUCCESS
    )
        ThrowError(CODBCERR::eBindCol);

```

```

    if ( SQLSetStmtAttrW( m_hstmt,
SQL_ATTR_APP_ROW_DESC, m_descOrderStatusCols2,
SQL_IS_POINTER ) != SQL_SUCCESS )

        ThrowError(CODBCERR::eSetStmtAttr);

    i = 0;
    if ( SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG, &m_txn.OrderStatus.c_id, 0, NULL) !=
SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR, &m_txn.OrderStatus.c_last,
sizeof(m_txn.OrderStatus.c_last), NULL) !=
SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR, &m_txn.OrderStatus.c_first,
sizeof(m_txn.OrderStatus.c_first), NULL) !=
SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_CHAR, &m_txn.OrderStatus.c_middle,
sizeof(m_txn.OrderStatus.c_middle), NULL) !=
SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_TYPE_TIMESTAMP, &m_txn.OrderStatus.o_entry_d,
0, NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_SSHORT, &m_txn.OrderStatus.o_carrier_id, 0,
NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_DOUBLE, &m_txn.OrderStatus.c_balance, 0, NULL)
!= SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i,
SQL_C_SLONG, &m_txn.OrderStatus.o_id, 0, NULL) !=
SQL_SUCCESS
    )
        ThrowError(CODBCERR::eBindCol);
}

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, (SQLWCHAR*)L"{call
tpcc_orderstatus(?,?,?,?)}", SQL_NTS);
        if ( (rc ==
SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0) ||
(rc == SQL_ERROR) )

            ThrowError(CODBCERR::eExecDirect);

// configure block
cursor
    if (
SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROW_ARRAY_SIZE,
(SQLPOINTER)MAX_OL_ORDER_STATUS_ITEMS, 0) !=
SQL_SUCCESS )

        ThrowError(CODBCERR::eSetStmtAttr);

        rc = SQLFetchScroll(
m_hstmt, SQL_FETCH_NEXT, 0 );
        if ( (rc ==
SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0) ||
(rc == SQL_ERROR) )

            ThrowError(CODBCERR::eFetchScroll);

        m_txn.OrderStatus.o_ol_cnt =
(short)m_RowsFetched;

        if
(m_txn.OrderStatus.o_ol_cnt != 0)
        {
            if (
SQLSetStmtAttrW( m_hstmt, SQL_ATTR_APP_ROW_DESC,
m_descOrderStatusCols2, SQL_IS_POINTER ) !=
SQL_SUCCESS )

                ThrowError(CODBCERR::eSetStmtAttr);

            if (
SQLMoreResults(m_hstmt) == SQL_ERROR )

                ThrowError(CODBCERR::eMoreResults);

            if ( rc =
SQLFetch(m_hstmt) == SQL_ERROR)

                ThrowError(CODBCERR::eFetch);
        }

        SQLFreeStmt(m_hstmt,
SQL_CLOSE);

```

```

        if
(m_txn.OrderStatus.o_ol_cnt == 0)
            throw new
CTPCC_ODBC_ERR( CTPCC_ODBC_ERR::ERR_NO_SUCH_ORDER );
        else if
(m_txn.OrderStatus.c_id == 0 &&
m_txn.OrderStatus.c_last[0] == 0)
            throw new
CTPCC_ODBC_ERR( CTPCC_ODBC_ERR::ERR_INVALID_CUST );
        else
            m_txn.OrderStatus.exec_status_code = eOK;
        break;
    }
    catch (COBDCERR *e)
    {
        if (!(e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
            throw;

        // hit deadlock;
backoff for increasingly longer period
        delete e;
        Sleep(10 * iTryCount);
    }
}

// if (iTryCount)
// throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_ODBC::InitDeliveryParams()
{
    if ( SQLAllocHandle(SQL_HANDLE_STMT,
m_hdbc, &m_hstmtDelivery) != SQL_SUCCESS )

        ThrowError(COBDCERR::eAllocHandle);

    m_hstmt = m_hstmtDelivery;

    int i = 0;
    if ( SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT, 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(COBDCERR::eBindParam);

    for (i=0;i<10;i++)
    {
        if ( SQLBindCol(m_hstmt,
(UWORD) (i+1), SQL_C_SLONG, &m_txn.Delivery.o_id[i],
0, NULL) != SQL_SUCCESS )

            ThrowError(COBDCERR::eBindCol);
    }
}

```

```

void CTPCC_ODBC::Delivery()
{
    RETCODE        rc;
    int            iTryCount =
0;
    m_hstmt = m_hstmtDelivery;

    while (TRUE)
    {
        try
        {
            rc =
SQLExecDirectW(m_hstmt, (SQLWCHAR*)L"call
tpcc_delivery(?,?)", SQL_NTS);
            if (rc != SQL_SUCCESS
&& rc != SQL_SUCCESS_WITH_INFO)

                ThrowError(COBDCERR::eExecDirect);

            if ( SQLFetch(m_hstmt)
== SQL_ERROR )

                ThrowError(COBDCERR::eFetch);

            SQLFreeStmt(m_hstmt,
SQL_CLOSE);

            m_txn.Delivery.exec_status_code = eOK;
            break;
        }
        catch (COBDCERR *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);
}

/* FILE: TPCC_ODBC.H
* Microsoft
TPC-C Kit Ver. 4.20.000
* Copyright
Microsoft, 1999
* All Rights Reserved
*

```

tpcc_odbch

```

* 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 COBDCERR : 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
        eSetStmntAttr,
        // error from SQLSetStmntAttr
    };

    COBDCERR(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;};
    int ErrorNum() {return
m_NativeError;};
    char *ErrorText() {return
m_odbcerrstr;};
};

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;};
    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_hstmtPayment;
    SQLHSTMT   m_hstmtDelivery;
    SQLHSTMT   m_hstmtOrderStatus;
    SQLHSTMT   m_hstmtStockLevel;

    SQLHDESC   m_descNewOrderCols1;
    SQLHDESC   m_descNewOrderCols2;
    SQLHDESC   m_descOrderStatusCols1;
    SQLHDESC   m_descOrderStatusCols2;

// new-order specific fields
    SQLINTEGER m_BindOffset;
    m_RowsFetched;
    int
    m_no_commit_flag;

    void ThrowError( CODBCERR::ACTION
eAction );

    void InitNewOrderParams();
    void InitPaymentParams();
    void InitDeliveryParams();
    void InitStockLevelParams();
    void InitOrderStatusParams();

    union
    {
        NEW_ORDER_DATA
NewOrder;
        PAYMENT_DATA
Payment;
        DELIVERY_DATA
Delivery;
        STOCK_LEVEL_DATA
StockLevel;
        ORDER_STATUS_DATA
OrderStatus;
    };
    m_txn;
public:

```

```

        CTPCC_ODBC(LPCSTR szServer,
LPCSTR szUser, LPCSTR szPassword, LPCSTR szHost,
LPCSTR szDatabase);
        ~CTPCC_ODBC(void);

        inline PNEW_ORDER_DATA
        BuffAddr_NewOrder() { return
&m_txn.NewOrder; };
        inline PPAYMENT_DATA
        BuffAddr_Payment() { return
&m_txn.Payment; };
        inline PDELIVERY_DATA
        BuffAddr_Delivery() { return
&m_txn.Delivery; };
        inline PSTOCK_LEVEL_DATA
        BuffAddr_StockLevel() { return
&m_txn.StockLevel; };
        inline PORDER_STATUS_DATA
        BuffAddr_OrderStatus() { return
&m_txn.OrderStatus; };

        void NewOrder          ();
        void Payment           ();
        void Delivery          ();
        void StockLevel        ();
        void OrderStatus       ();
};

// wrapper routine for class constructor
extern "C" DllDecl CTPCC_ODBC* CTPCC_ODBC_new
( LPCSTR szServer, LPCSTR szUser, LPCSTR
szPassword, LPCSTR szHost, LPCSTR szDatabase );

typedef CTPCC_ODBC* (TYPE_CTPCC_ODBC) (LPCSTR, LPCSTR,
LPCSTR, LPCSTR, LPCSTR);

```

trans.h

```

/* FILE: TRANS.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 structure
templates.
 * Change history:
 * 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.
#ifndef _SQLTYPES
typedef struct
{
    short
        /* SQLSMALLINT */
        year;
    unsigned short
        /*
SQLSMALLINT */
        month;
    unsigned short
        /*
SQLSMALLINT */
        day;
    unsigned short
        /*
SQLSMALLINT */
        hour;
    unsigned short
        /*
SQLSMALLINT */
        minute;
    unsigned short
        /*
SQLSMALLINT */
        second;
    unsigned long
        /*
SQLINTEGER */
        fraction;
} 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
    short
        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
    short
        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];
    double
        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_new_order_data;
    OL_NEW_ORDER_DATA
        *pnew_order_data;
} NEW_ORDER_DATA, *PNEW_ORDER_DATA;

typedef struct
{
    // input params
    short
        w_id;
    short
        d_id;

```

```

    long
        c_id;
    short
        c_d_id;
    short
        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;
    short
    ol_supply_w_id;
    short
    ol_quantity;
    double
    ol_amount;
    TIMESTAMP_STRUCT    ol_delivery_d;
} OL_ORDER_STATUS_DATA;

typedef struct
{
    // input params
    short                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
    short                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
    short                w_id;
    //delivery warehouse

```

```

short                o_carrier_id;
//carrier id
} DELIVERY_TRANSACTION;

typedef struct
{
    // input params
    short
    w_id;
    short
    d_id;
    short
    threshold;

    // output params
    EXEC_STATUS
    exec_status_code;
    long
    low_stock;
} STOCK_LEVEL_DATA, *PSTOCK_LEVEL_DATA;

```

txn_base.h

```

~$yRiÉ+vCÝÉÈ[<X;□'ý`DPý';'□□^<Ô□-
*z",NBE-`□□ÉÄ□8x% G...-□□Ä+DÜm|□Ym

```

txnlog.h

```

/* FILE: TXNLOG.H Microsoft
 * TPC-C Kit Ver. 4.10.000 not yet
 * audited
 *
 * PURPOSE: Header file for txn log class
 * Copyright
 * Microsoft, 1999
 * All Rights Reserved
 */

#pragma once

typedef struct _TXN_NEWORDER
{
    BYTE    OL_Count; //range 0 to
31    BYTE    OL_Remote_Count; //range 0 to
31    WORD    c_id;
    int        o_id;
} TXN_NEWORDER;

typedef struct _TXN_PAYMENT
{
    BYTE    CustByName;
    BYTE    IsRemote;
} TXN_PAYMENT;

```

```

typedef struct _TXN_ORDERSTATUS
{
    BYTE    CustByName;
} TXN_ORDERSTATUS;

typedef union _TXN_DETAILS
{
    TXN_NEWORDER    NewOrder;
    TXN_PAYMENT
    Payment;
    TXN_ORDERSTATUS    OrderStatus;
} TXN_DETAILS;

// Common header for all records in txn
log. The TxnType field is
// a switch which identifies the particular
variant.
#define TXN_REC_TYPE_CONTROL    1
//
#define TXN_REC_TYPE_TPCC
2 // replaces TRANSACTION_TYPE_TPCC
#define TXN_REC_TYPE_TPCC_DELIV_DEF    3

typedef struct _TXN_RECORD_HEADER
{
    JULIAN_TIME    TxnStartT0;
// start of txn
    BYTE    TxnType;
// one of TXN_REC_TYPE_*
    BYTE    TxnSubType;
// depends on TxnType
} TXN_RECORD_HEADER, *PTXN_RECORD_HEADER;

typedef struct _TXN_RECORD_CONTROL
{
// common header; must exactly
match TXN_RECORD_HEADER
    JULIAN_TIME    TxnStartT0;
// start of txn
    BYTE    TxnType;
// = TXN_REC_TYPE_CONTROL
    BYTE    TxnSubType;
// depends on TxnType
// end of common header

    DWORD    Len;
// number of bytes after this
} TXN_RECORD_CONTROL, *PTXN_RECORD_CONTROL;

// TPC-C Txn Record Layout:
//
//'TxnStartT0' is a Julian timestamp
corresponding to the moment the
//txn is sent to the SUT, i.e., beginning of
response time. Deltas
//are in milliseconds. Note that if RTDelay > 0,
then the txn was

```

```

//delayed by this amount. The delay occurs at
the beginning of the
//response time. So if RTDelay > 0, then the txn
was actually sent
//at TxnStartT0 + RTDelay.
//
//Graphically:
//
// time -->
//
// |--- Menu ---|--- Keying ---|--- Response ---
|--- Think ---|
// <- DeltaT1 -> <- DeltaT2 -> <- DeltaT4 ->
<- DeltaT3 ->
//
// ^
// ^ TxnStartT0
//
//RTDelay is the amount of response time delay
included in DeltaT4.
//RTDelay is recorded per txn because this value
can be changed on
//the fly, and so may vary from txn to txn.
//
//TxnStatus is the txn completion code. It is
used to indicate errors.
//For example, in the New Order txn, 1% of txns
abort. TxnStatus will
//reflect this.

typedef struct _TXN_RECORD_TPCC
{
// common header; must exactly
match TXN_RECORD_HEADER
    JULIAN_TIME TxnStartT0;
// start of txn
    BYTE TxnType;
// = TXN_REC_TYPE_TPCC
    BYTE TxnSubType;
// depends on TxnType
// end of common header

    int DeltaT1; //
    int DeltaT2; //
    int DeltaT3; //
    int DeltaT4; //
    int RTDelay; //
    int TxnError; //
// error code providing more detail for
TxnStatus
    int w_id;
// warehouse ID
    BYTE d_id;
// assigned district ID for this thread
    BYTE d_id_ThisTxn; //
// district ID chosen for this particular
    BYTE TxnStatus;
// completion status for txn to indicate
errors

```

```

    BYTE reserved; //
for word alignment
    TXN_DETAILS TxnDetails;
//
} TXN_RECORD_TPCC, *PTXN_RECORD_TPCC;
//
// TPC-C Deferred Delivery Txn Record
Layout:
//
//Incorporating delivery transaction information
into the above
//structure would increase the size of
TXN_DETAILS from 8 to 42 bytes.
//Hence, we store delivery transaction details in
a separate structure.
//
typedef struct _TXN_RECORD_TPCC_DELIV_DEF
{
// common header; must exactly
match TXN_RECORD_HEADER
    JULIAN_TIME TxnStartT0;
// start of txn
    BYTE TxnType;
// = TXN_REC_TYPE_TPCC_DELIV_DEF
    BYTE TxnSubType;
// = 0
// end of common header

    int DeltaT4; //
// response time (ms)
    int DeltaTxnExec;
// execution time (ms)
    int w_id;
// warehouse ID
    BYTE TxnStatus;
// completion status for txn to indicate
errors
    BYTE reserved; //
for word alignment
    short o_carrier_id; //
// carrier id
    long o_id[10]; //
// returned delivery transaction ids
} TXN_RECORD_TPCC_DELIV_DEF,
*PTXN_RECORD_TPCC_DELIV_DEF;

#define TXN_LOG_VERSION 2
#define TXN_DATA_START 4096 // offset in log file where log
records start
#define TXN_LOG_EYE_CATCHER "BC" //
signature bytes at the start of log file

////////////////////////////////////
////////////////////////////////////
// The transaction log has a header as the
first 4K block.
//
typedef struct _TXN_LOG_HEADER
{

```

```

    char
    EyeCatcher[2]; // signature bytes;
should always be "BC"
    int
    LogVersion; // set to
TXN_LOG_VERSION
    JULIAN_TIME
    BeginTxnTS; // timestamp
of first (lowest) txn start
    JULIAN_TIME
    EndTxnTS; // timestamp of last
(highest) txn completion time
    int
    iRecCount; // number of
records in log file
    BOOL
    bLogSorted;
    int
    iFileSize; // file size
in bytes

// the record map provides a fast
way to get close to a particular timestamp in a
sorted log file.
//
// struct
// {
//     JULIAN_TIME
//     TS; // timestamp
of record
//     int
//     iPos; // byte
position in file
// }
// #define RecMap[RecMapSize];
// #define RecMapSize
// 200
// } TXN_LOG_HEADER, *PTXN_LOG_HEADER;

/* Header of the sorted pointers blocks in
Temp file (in merging). */
typedef struct BLOCK_HEADER {
    long BlockPos;
    int CurPos;
    DWORD BytesRead;
    int nRecords;
    BYTE *offset; /* offset of
pointers to records in the log file */
} BLOCK_HEADER, *PBLOCK_HEADER;

#define READ_BUFFER_SIZE 64*1024
#define WRITE_BUFFER_SIZE 8*1024

#define NUM_READ_BUFFERS 1
#define NUM_WRITE_BUFFERS 2
#define MAX_NUM_BUFFERS 2

// flags passed in to the constructor
#define TXN_LOG_WRITE 0x01
#define TXN_LOG_READ 0x02
#define TXN_LOG_SORTED 0x04

```

```

#define TXN_LOG_CRASHOPEN    0x08    //
if set, invalid headers will be tolerated; used for
recovery

#define TXN_LOG_OS_ERROR    1
#define TXN_LOG_NOT_SORTED  2

#define SKIP_CTRL_RECS      1

class CTxnLog
{
private:
    DWORD          iBufferSize;
                    //buffer allocated size
    DWORD          iBytesFreeInBuffer;    //total bytes
available for use in buffer
    int            iNumBuffers;
//buffers in use
    int            iActiveBuffer;
//indicates which buffer is active: 0 or 1
    int            iIoBuffer;
//buffer for any pending IO operation
//
    int            iFilePointer;
//position in file.
    LARGE_INTEGER  lFilePointer;
//position in file.
    int            iNextRec;
//when reading, ordinal value of next
record

// A "save point" is remembered
each time GetNextRecord is called with a start time
specified.
// The next time it is called, if
start time is after the save point, we start scanning
from the
// save point. This is
particularly useful in FindBestInterval, where the
log is scanned repeatedly.
    JULIAN_TIME    SavePtTime;
//
    int            iSavePtFilePointer;
    LARGE_INTEGER  lSavePtFilePointer;
    int            iSavePtNextRec;

    JULIAN_TIME    lastTS;
//when
writing sorted output, used to verify records are
sorted
    BOOL           bWrite;
//writing log
file

```

```

    BOOL           bCrashOpen;
// tolerate
bad headers and consistency checks

    BOOL           bLogSorted;
//
is log file sorted? applies to both input and output
    JULIAN_TIME    BeginTxnTS;
//
timestamp of first (lowest) txn start
    JULIAN_TIME    EndTxnTS;
// timestamp
of last (highest) txn completion time
    int            iRecCount;
//
number of records in log file

    BYTE           *pCurrent;
//ptr to
current buffer

    BYTE           *pBuffer[MAX_NUM_BUFFERS];

    PTXN_RECORD_HEADER *TxnArray;
//transaction record pointer
array for sort

    DWORD          dwError;
    HANDLE         hTxnFile;
//handle to log file
    HANDLE         hMapFile;
//map file used when
sorting the log
    HANDLE         hIoComplete;
//event to signify that
there are no pending IOs
    HANDLE         hLogFileIo;
//event to
signal the IO thread to write the inactive buffer

    Spinlock       Spin;
//spin lock to protect
the txn log file buffers

    FILE           *tmpFile;
//temp file for merging
sorted pieces

    PBLOCK_HEADER  tmpHeaders;
//sorted
pointers block header

    BYTE           **recPointers;
//record pointer
buffers for each sorted block
    PTXN_RECORD_HEADER *recBuffers;
//record buffers for each sorted block
    int            *PointersRead;
//# of pointers processed in each block
    BOOL           *BlockAvailable;
//whether to check a particular
block for jmin

    int            nBlocks;

```

```

    int            jmin;

//index (block-wise) of the lowest
timestamp record
    int            iAvgRecordLen;
//average record length

    int            iSortedReturnedCount;
//keeps track of the # of sorted records
returned through GetSortedRecord()

    int            Write(BYTE *ptr, DWORD Size);
    static void    LogFileIO(CTxnLog *);

    void          LoadBuffers(int j);
//used in sort/merge to load
record buffers

public:
    CTxnLog::CTxnLog(LPCTSTR
szFileName, DWORD dwOpts);
    ~CTxnLog(void);

    int            WriteToLog(PTXN_RECORD_TPCC
pTxnRcrd);
    WriteToLog(PTXN_RECORD_TPCC_DELIV_DEF pTxnRcrd);
    WriteToLog(PTXN_RECORD_CONTROL pCtrlRec);
    WriteToLog(PTXN_RECORD_HEADER
pCtrlRec);

    int            WriteCtrlRecToLog(BYTE
SubType, LPCTSTR lpStr, DWORD dwLen);

    void          CloseTransactionLogFile(void);

    PTXN_RECORD_HEADER
GetNextRecord(BOOL bSkipCtrlRecs = FALSE);
    PTXN_RECORD_HEADER
GetNextRecord(JULIAN_TIME SeekTimeT0, BOOL
bSkipCtrlRecs = FALSE);

    int            Sort(void);
    PTXN_RECORD_HEADER
GetSortedRecord();

    inline BOOL   IsSorted(void) {
return bLogSorted; };
    inline JULIAN_TIME BeginTS(void)
{ return BeginTxnTS; };
    inline JULIAN_TIME EndTS(void) {
return EndTxnTS; };
    inline int    RecordCount(void) {
return iRecCount; };
};

class CTXNLOG_ERR : public CBaseErr

```



```

{
    public:
        enum CTXNLOG_ERRS
        {
            ERR_BAD_FILE_FORMAT,
            // "File format is invalid."

            ERR_UNKNOWN_LOG_VERSION,    // "Log file
version is unknown."
            ERR_BROKEN_LOG_FILE,
            // "Log file is broken."
            ERR_LOG_NOT_SORTED,
            // "Log file is not sorted"
            ERR_INVALID_TIME_SEQ,
            // "Internal Error: Record Time
Sequence invalid."
        };

        CTXNLOG_ERR(int iErr) :
CBaseErr(iErr) {};

        int ErrorType() {return
ERR_TYPE_TXNLOG;};

        char *ErrorText()
        {
            static char *szMsgs[] =
{
                "File format
is invalid.",
                "Log file
version is unknown.",
                "Log file is
broken.",
                "Log file is
not sorted",
                "Internal
Error: Record Time Sequence invalid.",
                ""
            };

            for(int i = 0;
szMsgs[i][0]; i++)
            {
                if ( m_idMsg
== i )
                    break;
            }

            return(szMsgs[i][0] ?
szMsgs[i] : ERR_UNKNOWN);
        };
};

```

Appendix B: Database Design

The TPC-C database was created with the following Transact-SQL scripts:

VerifyTpccLoad.sql

```
-- File:      VERIFYTPCCLOAD.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Performs series of TPC-C database checks
to verify
--           that database load completed
correctly

print      " "
select    convert(char(30), getdate(),9)
print    " "

use tpcc
go

--          *****
--          Check rows per table from SYSINDEXES
--          *****

print     'WAREHOUSE TABLE'

select   rows
from     sysindexes
where    id      = object_id("warehouse")
go

print    'DISTRICT TABLE = (10 * No of warehouses) '

select   rows
from     sysindexes
where    id      =object_id("district")
go

print    'ITEM TABLE = 100,000'

select   rows
from     sysindexes
where    id      =object_id("item")
go
```

```
print     'CUSTOMER TABLE = (30,000 * No of
warehouses) '

select   rows
from     sysindexes
where    id      =object_id("customer")
go

print    'ORDERS TABLE = (30,000 * No of warehouses) '

select   rows
from     sysindexes
where    id      =object_id("orders")
go

print    'HISTORY TABLE = (30,000 * No of
warehouses) '

select   rows
from     sysindexes
where    id      =object_id("history")
go

print    'STOCK TABLE = (100,000 * No of
warehouses) '

select   rows
from     sysindexes
where    id      =object_id("stock")
go

print    'ORDER_LINE TABLE = (300,000 * No of
warehouses + some change) '

select   rows
from     sysindexes
where    id      =object_id("order_line")
go

print    'NEW_ORDER TABLE = (9000 * No of
warehouses) '

select   rows
from     sysindexes
where    id      =object_id("new_order")
go

--          *****
--          Check indices
--          *****

print    '*****Index Check*****'

use tpcc
go

sp_helpindex    customer
go

sp_helpindex    stock
go
```

```
sp_helpindex    district
go

sp_helpindex    item
go

sp_helpindex    new_order
go

sp_helpindex    orders
go

sp_helpindex    order_line
go

sp_helpindex    warehouse
go
```

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 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','tpccback3','W:\tpccback3.dmp'
go
exec sp_addumpdevice
'disk','tpccback4','Z:\tpccback4.dmp'
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 9792 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 = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs2,
FILENAME = "G:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs3,
FILENAME = "H:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs4,
FILENAME = "I:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs5,
FILENAME = "J:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs6,
FILENAME = "K:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs7,
FILENAME = "L:",
SIZE = 92600MB,
FILEGROWTH = 0),

FILEGROUP MSSQL_misc_fg
(
NAME = MSSQL_misc1,
FILENAME = "M:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc2,
FILENAME = "N:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc3,
FILENAME = "O:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc4,
FILENAME = "P:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc5,
FILENAME = "Q:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc6,
FILENAME = "R:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc7,
FILENAME = "S:",
SIZE = 40500MB,
FILEGROWTH = 0)

LOG ON
(
NAME =MSSQL_tpcc_log,
FILENAME = "E:",
SIZE =325000MB,
FILEGROWTH =0)

-- Store ending time
update tpcc_timer

```

```

FILENAME = "G:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs3,
FILENAME = "H:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs4,
FILENAME = "I:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs5,
FILENAME = "J:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs6,
FILENAME = "K:",
SIZE = 92600MB,
FILEGROWTH = 0),
(
NAME = MSSQL_cs7,
FILENAME = "L:",
SIZE = 92600MB,
FILEGROWTH = 0),

FILEGROUP MSSQL_misc_fg
(
NAME = MSSQL_misc1,
FILENAME = "M:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc2,
FILENAME = "N:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc3,
FILENAME = "O:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc4,
FILENAME = "P:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc5,
FILENAME = "Q:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc6,
FILENAME = "R:",
SIZE = 40500MB,
FILEGROWTH = 0),
(
NAME = MSSQL_misc7,
FILENAME = "S:",
SIZE = 40500MB,
FILEGROWTH = 0)

LOG ON
(
NAME =MSSQL_tpcc_log,
FILENAME = "E:",
SIZE =325000MB,
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

```

config.sql

```

-- File:      CONFIG.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.00
--           Copyright Microsoft, 1996
-- Purpose:   Collects SQL Server configuration
parameters

```

```

print " "
select convert(char(30), getdate(),9)
print " "
go

sp_configure "show advanced",1
go
reconfigure with override
go
exec sp_configure "affinity mask", 15
exec sp_configure "cost threshold for parallelism",
5
exec sp_configure "index create memory", 704
exec sp_configure "lightweight pooling", 1
exec sp_configure "awe enabled", 1
exec sp_configure "locks", 0
exec sp_configure "max degree of parallelism", 1
exec sp_configure "max server memory", 63800
exec sp_configure "max worker threads", 600
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", 80
exec sp_configure "set working set size", 0
exec sp_configure "user connections", 0

go

reconfigure with override
go
sp_configure
go

```

dbopt1.sql

```
-- File:      DBOPT1.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Sets database options for data load

use master
go

exec sp_dboption tpcc,'select into/bulkcopy',true
exec sp_dboption tpcc,'trunc. log on chkpt.',true
go

use tpcc
go

checkpoint
go
```

dbopt2.sql

```
-- File:      DBOPT2.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Resets database options after data load

sp_dboption tpcc,'select into/bulkcopy',FALSE
GO

sp_dboption tpcc,'trunc. log on chkpt.',FALSE
GO

sp_dboption tpcc,'torn page detection',FALSE
GO

USE tpcc
GO

CHECKPOINT
GO

sp_configure 'allow updates',1
GO

RECONFIGURE WITH OVERRIDE
GO
```

```
DECLARE @msg          varchar(50)

--
--           OPTIONS FOR SQL SERVER 8.0
-- 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',          TRUE
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

EXEC sp_tableoption 'district',
'pintable',true
EXEC sp_tableoption 'warehouse',
'pintable',true
EXEC sp_tableoption 'new_order',
'pintable',true
EXEC sp_tableoption 'item',
'pintable',true
GO
```

delivery.sql

```
-- File:      DELIVERY.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates delivery transaction stored
procedure
--
--           Interface Level: 4.10.000

use tpcc
go

if exists (select name from sysobjects where name =
"tpcc_delivery" )
drop procedure tpcc_delivery
go

create proc tpcc_delivery @w_id
smallint,

@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
```

```

select @d_id = 0
begin tran 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 (serializable)

        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 tran d

-- return delivery data to client

select @oid1,
        @oid2,
        @oid3,
        @oid4,
        @oid5,
        @oid6,
        @oid7,
        @oid8,
        @oid9,
        @oid10
go

```

getargs.c

```

// File: GETARGS.C Microsoft
// TPC-C Kit Ver. 4.22 Copyright
// Microsoft, 1996, 1997, 1998, 1999, 2000, 2001
// 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->pack_size =
DEF_LDPACKSIZE;
    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 'h': /* Fall through */
            case 'H':

                GetArgsLoaderUsage();
                break;

            case 'D':
                >database = ptr+2;
                break;

            case 'P':
                >password = ptr+2;
                break;

            case 'S':
                >server = ptr+2;
                break;

            case 'U':
                >user = ptr+2;
                break;

            case 'b':
                >batch = ptr+2;
                break;

            case 'W':
                >num_warehouses = atol(ptr+2);
                break;

            case 's':
                >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':
                >loader_res_file = ptr+2;
                break;

            case 'p':
                >pack_size = atol(ptr+2);
                break;

            case 'i':
                >build_index = atol(ptr+2);
                break;

            case 'o':
                >index_order = atol(ptr+2);
                break;

            case 'c':
                >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("[%d]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
%d\n", (long) BATCH);
        printf("-p TDS packet size
%d\n", (long) DEFLDPPACKSIZE);
        printf("-f Loader Results Output Filename
%s\n", LOADER_RES_FILE);
        printf("-s Starting Warehouse
%d\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. 4.22
--               Copyright Microsoft, 2001
-- Purpose:       Creates clustered index on customer
table

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert(varchar(30),@startdate,9)

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,9)

```

```

select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

idxcusnc.sql

```

-- File:          IDXCUSNC.SQL
--               Microsoft TPC-C Benchmark Kit Ver. 4.22
--               Copyright Microsoft, 2001
-- Purpose:       Creates non-clustered index on customer
table

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert(varchar(30),@startdate,9)

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,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

idxdiscl.sql

```

-- File:          IDXDISCL.SQL
--               Microsoft TPC-C Benchmark Kit Ver. 4.22
--               Copyright Microsoft, 2001
-- Purpose:       Creates clustered index on district
table

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert(varchar(30),@startdate,9)

```

```

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,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

idxitmcl.sql

```

-- File:          IDXITMCL.SQL
--               Microsoft TPC-C Benchmark Kit Ver. 4.22
--               Copyright Microsoft, 2001
-- Purpose:       Creates clustered index on item table

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert(varchar(30),@startdate,9)

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,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

idxnodcl.sql

```

-- File:          IDXNODCL.SQL
--               Microsoft TPC-C Benchmark Kit Ver. 4.22
--               Copyright Microsoft, 2001
-- Purpose:       Creates clustered index on new_order
table

```

```

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert (varchar(30),@startdate,9)

if exists ( select name from sysindexes where name =
'new_order_c1' )
drop index new_order.new_order_c1

create unique clustered index new_order_c1 on
new_order(no_w_id, no_d_id, no_o_id)
on MSSQL_misc_fg

select @enddate = getdate()
select "End date: ", convert (varchar(30),@enddate,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

idxodlcl.sql

```

-- File:      IDXODLCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates clustered index on order_line
table

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert (varchar(30),@startdate,9)

if exists ( select name from sysindexes where name =
'order_line_c1' )
drop index order_line.order_line_c1

create unique clustered index order_line_c1 on
order_line(ol_w_id, ol_d_id, ol_o_id, ol_number)
on MSSQL_misc_fg

select @enddate = getdate()
select "End date: ", convert (varchar(30),@enddate,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

idxordcl.sql

```

-- File:      IDXORDCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates clustered index on orders table

```

```

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert (varchar(30),@startdate,9)

if exists ( select name from sysindexes where name =
'orders_c1' )
drop index orders.orders_c1

create unique clustered index orders_c1 on
orders(o_w_id, o_d_id, o_id)
on MSSQL_misc_fg

select @enddate = getdate()
select "End date: ", convert (varchar(30),@enddate,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

idxordnc.sql

```

-- File:      IDXORDNC.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates non-clustered index on orders
table

```

```

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert (varchar(30),@startdate,9)

if exists ( select name from sysindexes where name =
'orders_nc1' )
drop index orders.orders_nc1

create index orders_nc1 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,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

idxstkcl.sql

```

-- File:      IDXSTKCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates clustered index on stock table

```

```

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert (varchar(30),@startdate,9)

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,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

idxwarcl.sql

```

-- File:      IDXWARCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates clustered index on warehouse
table

```

```

use tpcc
go

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()

```



```

select "Start date:",
convert (varchar(30),@startdate,9)

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,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go

```

neword.sql

```

-- File:      NEWORD.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates new order transaction stored
--           procedure
--
--           Interface Level: 4.10.000

use tpcc
go

if exists ( select name from sysobjects where name =
"tpcc_neworder" )
    drop procedure tpcc_neworder

go

create proc tpcc_neworder

    @w_id          smallint,

    @d_id          tinyint,

    @c_id          int,

    @o_ol_cnt      tinyint,

    @o_all_local   tinyint,

    @i_id1 int = 0, @s_w_id1 smallint = 0,
@ol_qty1 smallint = 0,

    @i_id2 int = 0, @s_w_id2 smallint = 0,
@ol_qty2 smallint = 0,

    @i_id3 int = 0, @s_w_id3 smallint = 0,
@ol_qty3 smallint = 0,

```

```

    @i_id4 int = 0, @s_w_id4 smallint = 0,
@ol_qty4 smallint = 0,

    @i_id5 int = 0, @s_w_id5 smallint = 0,
@ol_qty5 smallint = 0,

    @i_id6 int = 0, @s_w_id6 smallint = 0,
@ol_qty6 smallint = 0,

    @i_id7 int = 0, @s_w_id7 smallint = 0,
@ol_qty7 smallint = 0,

    @i_id8 int = 0, @s_w_id8 smallint = 0,
@ol_qty8 smallint = 0,

    @i_id9 int = 0, @s_w_id9 smallint = 0,
@ol_qty9 smallint = 0,

    @i_id10 int = 0, @s_w_id10 smallint = 0,
@ol_qty10 smallint = 0,

    @i_id11 int = 0, @s_w_id11 smallint = 0,
@ol_qty11 smallint = 0,

    @i_id12 int = 0, @s_w_id12 smallint = 0,
@ol_qty12 smallint = 0,

    @i_id13 int = 0, @s_w_id13 smallint = 0,
@ol_qty13 smallint = 0,

    @i_id14 int = 0, @s_w_id14 smallint = 0,
@ol_qty14 smallint = 0,

    @i_id15 int = 0, @s_w_id15 smallint = 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),
        @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     smallint,
        @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

```

```

then @s_w_id1
then @s_w_id2
then @s_w_id3
then @s_w_id4
then @s_w_id5
then @s_w_id6
then @s_w_id7
then @s_w_id8
then @s_w_id9
then @s_w_id10
then @s_w_id11
then @s_w_id12
then @s_w_id13
then @s_w_id14
then @s_w_id15

when 1
when 2
when 3
when 4
when 5
when 6
when 7
when 8
when 9
when 10
when 11
when 12
when 13
when 14
when 15

end,
@li_qty = case @li_no
when 1 then
when 2 then
when 3 then
when 4 then
when 5 then
when 6 then
when 7 then
when 8 then
when 9 then
when 10
when 11
when 12
when 13
when 14
when 15

@ol_qty1
@ol_qty2
@ol_qty3
@ol_qty4
@ol_qty5
@ol_qty6
@ol_qty7
@ol_qty8
@ol_qty9
then @ol_qty10
then @ol_qty11
then @ol_qty12
then @ol_qty13
then @ol_qty14
then @ol_qty15

when 1
when 2
when 3
when 4
when 5
when 6
when 7
when 8
when 9
when 10
when 11
when 12
when 13
when 14
when 15

end
-- get item data (no one updates item)
select @i_price = i_price,
       @i_name = i_name,
       @i_data = i_data
from   item (tablock
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,
       @li_s_w_id,
       "dec 31, 1899",
       @li_qty,
       @i_price * @li_qty,
       @s_dist)

-- send line-item data to client
select @i_name,
       @s_quantity,
       b_g = case
when ( (patindex("%ORIGINAL%",@i_data) > 0) and
       (patindex("%ORIGINAL%",@s_data) > 0) )
then
"B" else "G" end,
       @i_price,
       @i_price *
@li_qty
end
else
begin

-- no item (or stock) found - triggers rollback
condition
select "",0,"",0,0
select @commit_flag = 0

end
end

-- get customer last name, discount, and credit
rating
select @c_last = c_last,
       @c_discount = c_discount,
       @c_credit = c_credit,
       @c_id_local = c_id
from   customer (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,
        @o_entry_d,
        0,
        @o_ol_cnt,
        @o_all_local)
-- 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 (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

```

ordstat.sql

```

-- File: ORDSTAT.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.22

```

```

-- Copyright Microsoft, 2001
-- Purpose: Creates order status transaction stored
procedure
--
-- Interface Level: 4.10.000
use tpcc
go
if exists ( select name from sysobjects where name =
"tpcc_orderstatus" )
    drop procedure tpcc_orderstatus
go
create proc tpcc_orderstatus @w_id smallint,
        @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,
        @cnt smallint
begin tran o
if (@c_id = 0)
    begin
-- get customer id and info using last name
        select @cnt =
        (count(*)+1)/2
        from customer
        (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_balance =
            @c_first =
            @c_last =
            @c_middle =
            from customer
        (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_first = c_first,
            @c_middle = c_middle,
            @c_last =
            c_last
        from customer
        (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 (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 (repeatableread)
    where
        ol_o_id = @o_id and
        ol_d_id = @d_id and
        ol_w_id = @w_id

```

custnotfound:

commit tran o

-- return data to client

```

select
    @c_id,
    @c_last,
    @c_first,
    @c_middle,

    @o_entry_d,
    @o_carrier_id,
    @c_balance,
    @o_id

```

go

payment.sql

```

-- File:      PAYMENT.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates payment transaction stored
--           procedure
--
--           Interface Level: 4.10.000

use tpcc
go

if exists (select name from sysobjects where name =
"tpcc_payment" )
    drop procedure tpcc_payment
go

create proc tpcc_payment      @w_id
smallint,

                                @c_w_id
smallint,

                                @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  smallint,
    @c_id_local  int

select @screen_data = ""

begin tran 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

                    (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

                (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,
            @data = c_data,

            where
                @c_id_local = c_id
                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) +

```

```

substring(@data, 1, 458)

-- update customer info

        update      customer
        set         c_data      = @c_data

        where      c_id        = @c_id and
                  c_w_id      = @c_w_id and
                  c_d_id      = @c_d_id

        select      @screen_data =
substring (@c_data,1,200)
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 tran 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
```

random.c

```

// File:          RANDOM.C
//               Microsoft
// TPC-C Kit Ver. 4.22
//               Copyright
// Microsoft, 1996, 1997, 1998, 1999, 2000, 2001
// 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("[%d]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'
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 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
```

sqlshutdown.sql

```
use tpcc
go
checkpoint
go
shutdown
go
```

stocklev.sql

```
-- File:      STOCKLEV.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
```

```
--           Copyright Microsoft, 2001
-- Purpose:   Creates stock level transaction stored
--           procedure
--           Interface Level: 4.10.000

use tpcc
go

if exists (select name from sysobjects where name =
"tpcc_stocklevel" )
drop procedure tpcc_stocklevel
go

create proc tpcc_stocklevel @w_id
smallint,
@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))
stock, order_line
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

go
```

strings.c

```
// File:      STRINGS.C
//           Microsoft
//           TPC-C Kit Ver. 4.22
//           Copyright
//           Microsoft, 1996, 1997, 1998, 1999, 2000, 2001
// 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.

```

```

// -Clavine 08/13/96

int MakeAlphaString( int x, int y, int z, char
*str)
{
    int len;
    int i;

    char cc = 'a';
    static char chArray[] =
"0123456789ABCDEFGHIJKLMNPOQRSTUVWXYZabcdefghijklmnop
qrstuvwxyz";
    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++)
    {
        cc = chArray[RandomNumber(0,
chArrayMax)];
        str[i] = cc;
    }
    if ( len < z )
        memset(str+len, ' ', z - len);
    str[len] = 0;

    return len;
}

//=====
//
// 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 + y) <= 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);
        strcpy(str + start, "ORIGINAL",
8);
    }

#ifdef DEBUG
    printf("[%ld]DBG: MakeOriginalAlphaString: :
%s\n",
            (int)
GetCurrentThreadId(), str);
#endif

    return strlen(str);
}

//=====
//
// Function name: MakeNumberString
//
//=====

int MakeNumberString(int x, int y, int z, char
*str)
{
    char tmp[16];

    //MakeNumberString is always called
MakeZipNumberString(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. 4.22
-- Copyright Microsoft, 2001
-- Purpose: Creates TPC-C tables

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
    smallint,
    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),
    w_tax
    numeric(4,4),
    w_ytd
    numeric(12,2)
) on MSSQL_misc_fg

go

create table district
(
    d_id
    tinyint,
    d_w_id
    smallint,
    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),
        d_tax
        numeric(4,4),
        d_ytd
        numeric(12,2),
        d_next_o_id
        int
    ) on MSSQL_misc_fg
    go

create table customer
(
    c_id
    int,
    c_d_id
    tinyint,
    c_w_id
    smallint,
    c_first
    char(16),
    c_middle
    char(2),
    c_last
    char(16),
    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_discount
    numeric(4,4),
    c_balance
    numeric(12,2),
    c_ytd_payment
    numeric(12,2),
    c_payment_cnt
    smallint,
    c_delivery_cnt
    smallint,
    c_data
    char(500)
) on MSSQL_cs_fg
go

create table history
(
    h_c_id
    int,
    h_c_d_id
    tinyint,
    h_c_w_id
    smallint,

```

```

        h_d_id
        tinyint,
        h_w_id
        smallint,
        h_date
        datetime,
        h_amount
        numeric(6,2),
        h_data
        char(24)
    ) on MSSQL_misc_fg
    go

create table new_order
(
    no_o_id
    int,
    no_d_id
    tinyint,
    no_w_id
    smallint
) on MSSQL_misc_fg
go

create table orders
(
    o_id
    int,
    o_d_id
    tinyint,
    o_w_id
    smallint,
    o_c_id
    int,
    o_entry_d
    datetime,
    o_carrier_id
    tinyint,
    o_ol_cnt
    tinyint,
    o_all_local
    tinyint
) on MSSQL_misc_fg
go

create table order_line
(
    ol_o_id
    int,
    ol_d_id
    tinyint,
    ol_w_id
    smallint,
    ol_number
    tinyint,
    ol_i_id
    int,
    ol_supply_w_id
    smallint,
    ol_delivery_d
    datetime,
    ol_quantity
    smallint,
    ol_amount
    numeric(6,2),
    ol_dist_info
    char(24)
) on MSSQL_misc_fg
go

create table item
(

```

```

        i_id
        int,
        i_im_id
        int,
        i_name
        char(24),
        i_price
        numeric(5,2),
        i_data
        char(50)
    ) on MSSQL_misc_fg
    go

create table stock
(
    s_i_id
    int,
    s_w_id
    smallint,
    s_quantity
    smallint,
    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),
    s_ytd
    int,
    s_order_cnt
    smallint,
    s_remote_cnt
    smallint,
    s_data
    char(50)
) on MSSQL_cs_fg
go

```

time.c

```

//      File:                TIME.C
//
//      TPC-C Kit Ver. 4.22      Microsoft
//
//      Copyright
//      Microsoft, 1996, 1997, 1998, 1999, 2000, 2001
//      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: TPC.H Microsoft
// TPC-C Kit Ver. 4.22 Copyright
// Microsoft, 1996, 1997, 1998, 1999, 2000, 2001
// Purpose: Header file for TPC-C database
loader

// Build number of TPC Benchmark Kit
#define TPCKIT_VER "4.22"

// 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>

// 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 DEFLOADPACKSIZE 32768
#define LOADER_RES_FILE "logs\\load.out"
#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 *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      MakeOriginalAlphaString();
int      MakeNumberString();
int      MakeZipNumberString();
void     InitString();
void     InitAddress();
void     PaddString();

```

tpccldr.c

```

// File: TPCCLDR.C Microsoft
// TPC-C Kit Ver. 4.22 Copyright
// Microsoft, 2000, 2001
// 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

// Functions declarations

void HandleErrorDBC (SQLHDBC hdbc1);

void CheckSQL();
void CheckDataBase();

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 OpenConnections();
void BuildIndex();
void FormatDate ();

// Shared memory structures

typedef struct
{
    long         ol;
    long         ol_i_id;
    short        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;
    short        o_w_id;
    long         o_c_id;
    short        o_carrier_id;
    short        o_ol_cnt;
    short        o_all_local;
    ORDER_LINE_STRUCT o_ol[15];
} ORDERS_STRUCT;

typedef struct
{
    long         c_id;
    short        c_d_id;
    short        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;
// fix to avoid ODBC float to numeric conversion
// double
char        c_balance;
char        c_balance[6];

double      c_ytd_payment;
short       c_payment_cnt;
short       c_delivery_cnt;
char        c_data[C_DATA_LEN+1];
double      h_amount;
char        h_data[H_DATA_LEN+1];
} CUSTOMER_STRUCT;

typedef struct
{
    char        c_last[LAST_NAME_LEN+1];
    char        c_first[FIRST_NAME_LEN+1];
    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 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;

ORDERS_STRUCT  orders_buf[ORDERS_PER_DISTRICT];
CUSTOMER_STRUCT customer_buf[CUSTOMERS_PER_DISTRICT];
long           orders_rows_loaded;
long           new_order_rows_loaded;
long           order_line_rows_loaded;
long           history_rows_loaded;
long           customer_rows_loaded;
long           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;

TPCCCLDR_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");
        // process command line arguments

        aptr = &args;
        GetArgsLoader(argc, argv, aptr);

        // verify database and tables exist before
attempting to load

        CheckSQL();
        CheckDataBase();

        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);

        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()
        {
            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];

        // Seed with unique number
        seed(1);

        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");

        rc = bcp_init(i_hdbc1, name, NULL,
"logs\\item.err", 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);
        }

        rc = bcp_bind(i_hdbc1, (BYTE *) &i_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
        if (rc != SUCCEEDED)
            HandleErrorDBC(i_hdbc1);

        rc = bcp_bind(i_hdbc1, (BYTE *) &i_im_id,
0, SQL_VARLEN_DATA, NULL, 0, SQLINT4, 2);
        if (rc != SUCCEEDED)
            HandleErrorDBC(i_hdbc1);

        rc = bcp_bind(i_hdbc1, (BYTE *) i_name, 0,
I_NAME_LEN, NULL, 0, 0, 3);
        if (rc != SUCCEEDED)
            HandleErrorDBC(i_hdbc1);

        rc = bcp_bind(i_hdbc1, (BYTE *) &i_price,
0, SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 4);
        if (rc != SUCCEEDED)
            HandleErrorDBC(i_hdbc1);

```

```

rc = bcp_bind(i_hdbc1, (BYTE *) i_data, 0,
I_DATA_LEN, NULL, 0, 0, 5);
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);

    MakeAlphaString(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("idxitmc1");
}

//=====
//
// Function : LoadWarehouse
//
// Loads WAREHOUSE table and loads Stock and District
as Warehouses are created
//

```

```

//=====
void LoadWarehouse()
{
    short 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];

    // 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("idxwarc1");

    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");

    rc = bcp_init(w_hdbc1, name, NULL,
"logs\\whouse.err", DB_IN);
    if (rc != SUCCEEDED)
        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 != SUCCEEDED)

            HandleErrorDBC(w_hdbc1);
    }

    rc = bcp_bind(w_hdbc1, (BYTE *) &w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_name, 0,
W_NAME_LEN, NULL, 0, 0, 2);
    if (rc != SUCCEEDED)

```

```

        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_street_1,
0, ADDRESS_LEN, NULL, 0, 0, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_street_2,
0, ADDRESS_LEN, NULL, 0, 0, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_city, 0,
ADDRESS_LEN, NULL, 0, 0, 5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_state, 0,
STATE_LEN, NULL, 0, 0, 6);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_zip, 0,
ZIP_LEN, NULL, 0, 0, 7);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) &w_tax, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 8);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) &w_ytd, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 9);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    time_start = (TimeNow() / MILLI);

    warehouse_rows_loaded = 0;

    for (w_id = (short)aptr-
>starting_warehouse; w_id <= aptr->num_warehouses;
w_id++)
    {
        MakeAlphaString(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 != SUCCEEDED)

            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("idxwarc1");

    stock_rows_loaded = 0;
    district_rows_loaded = 0;

    District();
    Stock();
}

//=====
//
// Function   : District
//
//=====
void District()
{
    short d_id;
    short 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;
    int    w_id;
    RETCODE rc;
    DBINT  rcint;
    char   bcphint[128];

    // 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");

        rc = bcp_init(w_hdbc1, name, NULL,
"logs\\district.err", DB_IN);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        if ((aptr->build_index == 1) && (aptr-
>index_order == 1))
        {
            sprintf(bcphint, "tablock, order
(d_w_id, d_id), ROWS_PER_BATCH = %u", (aptr-
>num_warehouses * 10));
            rc = bcp_control(w_hdbc1,
BCPHINTS, (void*) bcphint);
            if (rc != SUCCEED)

                HandleErrorDBC(w_hdbc1);
        }

        rc = bcp_bind(w_hdbc1, (BYTE *) &d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 1);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) &d_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) d_name, 0,
D_NAME_LEN, NULL, 0, 0, 3);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) d_street_1,
0, ADDRESS_LEN, NULL, 0, 0, 4);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) d_street_2,
0, ADDRESS_LEN, NULL, 0, 0, 5);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) d_city, 0,
ADDRESS_LEN, NULL, 0, 0, 6);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) d_state, 0,
STATE_LEN, NULL, 0, 0, 7);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) d_zip, 0,
ZIP_LEN, NULL, 0, 0, 8);
        if (rc != SUCCEED)

```

```

        HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) &d_tax, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 9);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) &d_ytd, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 10);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *)
&d_next_o_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
11);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        d_ytd = 30000.0;

        d_next_o_id = orders_per_district+1;

        time_start = (TimeNow() / MILLI);

        for (w_id = aptr->starting_warehouse; w_id
<= aptr->num_warehouses; w_id++)
        {
            d_w_id = w_id;

            for (d_id = 1; d_id <=
DISTRICT_PER_WAREHOUSE; d_id++)
            {

                MakeAlphaString(6,10,D_NAME_LEN, d_name);

                MakeAddress(d_street_1,
d_street_2, d_city, d_state, d_zip);

                d_tax = ((float)
RandomNumber(0L,2000L))/10000.00;

                rc =
bcp_sendrow(w_hdbc1);

                if (rc != SUCCEED)

                    HandleErrorDBC(w_hdbc1);

                district_rows_loaded++;
                CheckForCommit(w_hdbc1,
w_hstmt1, district_rows_loaded, "district",
&time_start);
            }
        }

        rcint = bcp_done(w_hdbc1);
        if (rcint < 0)
            HandleErrorDBC(w_hdbc1);

        printf("Finished loading district
table.\n");

        // if build index after load...

```



```

        if ((aptr->build_index == 1) && (aptr-
>index_order == 0))
            BuildIndex("idxdisc1");

        return;
    }

//=====
//
// Function   : Stock
//
//=====

void Stock()
{
    long s_i_id;
    short s_w_id;
    short s_quantity;
    char s_dist_01[S_DIST_LEN+1];
    char s_dist_02[S_DIST_LEN+1];
    char s_dist_03[S_DIST_LEN+1];
    char s_dist_04[S_DIST_LEN+1];
    char s_dist_05[S_DIST_LEN+1];
    char s_dist_06[S_DIST_LEN+1];
    char s_dist_07[S_DIST_LEN+1];
    char s_dist_08[S_DIST_LEN+1];
    char s_dist_09[S_DIST_LEN+1];
    char s_dist_10[S_DIST_LEN+1];
    long s_ytd;
    short s_order_cnt;
    short s_remote_cnt;
    char s_data[S_DATA_LEN+1];
    short len;
    char name[20];
    long time_start;
    RETCODE rc;
    DBINT rcint;
    char bcphint[128];

    // 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");

    rc = bcp_init(w_hdbc1, name, NULL,
"logs\\stock.err", DB_IN);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    if ((aptr->build_index == 1) && (aptr-
>index_order == 1))
    {

```

```

        sprintf(bcphint, "tablock, order
(s_i_id, s_w_id), ROWS_PER_BATCH = %u", (aptr-
>num_warehouses * 100000));
        rc = bcp_control(w_hdbc1,
BCPHINTS, (void*) bcphint);
        if (rc != SUCCEEDED)

            HandleErrorDBC(w_hdbc1);
        }

        rc = bcp_bind(w_hdbc1, (BYTE *) &s_i_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        bcp_bind(w_hdbc1, (BYTE *) &s_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *)
&s_quantity, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
3);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_01,
0, S_DIST_LEN, NULL, 0, 0, 4);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_02,
0, S_DIST_LEN, NULL, 0, 0, 5);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_03,
0, S_DIST_LEN, NULL, 0, 0, 6);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_04,
0, S_DIST_LEN, NULL, 0, 0, 7);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_05,
0, S_DIST_LEN, NULL, 0, 0, 8);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_06,
0, S_DIST_LEN, NULL, 0, 0, 9);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_07,
0, S_DIST_LEN, NULL, 0, 0, 10);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_08,
0, S_DIST_LEN, NULL, 0, 0, 11);

```

```

        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_09,
0, S_DIST_LEN, NULL, 0, 0, 12);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_10,
0, S_DIST_LEN, NULL, 0, 0, 13);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) &s_ytd, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 14);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *)
&s_order_cnt, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
15);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *)
&s_remote_cnt, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
16);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_data, 0,
S_DATA_LEN, NULL, 0, 0, 17);
        if (rc != SUCCEEDED)
            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 = (short)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 != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

            stock_rows_loaded++;
            CheckForCommit(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;
    short                 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];
// SQLRETURN
rc_l;
// SQLSMALLINT
recnum, MsgLen;
// SQLCHAR
SqlState[6],
Msg[SQL_MAX_MESSAGE_LENGTH];
// SQLINTEGER
NativeError;

// 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("idxxcuscl");

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

rc = bcp_init(c_hdbc1, name, NULL,
"logscustomer.err", DB_IN);
if (rc != SUCCEEDED)
    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 != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
}

sprintf(name, "%s.%s", aptr->database,
"history");

rc = bcp_init(c_hdbc2, name, NULL,
"logshistory.err", DB_IN);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc2);

```

```

    sprintf(bcphint, "tablock");
    rc = bcp_control(c_hdbc2, BCPHINTS, (void*)
bcphint);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    customer_rows_loaded = 0;
    history_rows_loaded = 0;

    CustomerBufInit();

    customer_time_start.time_start = (TimeNow()
/ MILLI);
    history_time_start.time_start = (TimeNow()
/ MILLI);

    for (w_id = (short)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);
            }

```

```

thread // Start History table

history table for: d_id = %d, w_id = %d\n", d_id,
w_id);

CreateThread(NULL,

(LPTHREAD_START_ROUTINE) LoadHistoryTable,

&history_time_start,

&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");

// 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, "isql -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\" >
logs\nurand_load.log",

aptr->server,
aptr->user,
aptr-
>password,
aptr-
>database,

LOADER_NURAND_C);

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()
{
int 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;

// fix to avoid ODBC float to
numeric conversion problem.
//
customer_buf[i].c_balance = 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, int 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);

        MakeAlphaString(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;

        // Generate CUSTOMER and HISTORY
data
        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] =
'0';
        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);

    // fix to avoid ODBC float to
numeric conversion problem.
    // customer_buf[i].c_balance = -
10.0;

    strcpy(customer_buf[i].c_balance,"-10.0");

    MakeAlphaString(300, 500,
C_DATA_LEN, customer_buf[i].c_data);

    // Generate HISTORY data
    MakeAlphaString(12, 24,
H_DATA_LEN, customer_buf[i].h_data);
}

//=====
//
// Function : LoadCustomerTable
//
//=====
void LoadCustomerTable(LOADER_TIME_STRUCT
*customer_time_start)
{
    int            i;
    long           c_id;
    short          c_d_id;
    short          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;

    // fix to avoid ODBC float to numeric
conversion problem.
    // double           c_balance;
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;

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_first, 0,
FIRST_NAME_LEN, NULL, 0, 0, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0,
MIDDLE_NAME_LEN, NULL, 0, 0, 5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_last, 0,
LAST_NAME_LEN, NULL, 0, 0, 6);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0,
ADDRESS_LEN, NULL, 0, 0, 7);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0,
ADDRESS_LEN, NULL, 0, 0, 8);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
}

```

```

        HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) c_city, 0,
ADDRESS_LEN, NULL, 0, 0, 9);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) c_state, 0,
STATE_LEN, NULL, 0, 0, 10);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) c_zip, 0,
ZIP_LEN, NULL, 0, 0, 11);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) c_phone, 0,
PHONE_LEN, NULL, 0, 0, 12);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) &c_since,
0, C_SINCE_LEN, NULL, 0, SQLCHARACTER, 13);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) c_credit, 0,
CREDIT_LEN, NULL, 0, 0, 14);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) &c_credit_lim, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 15);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) &c_discount, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 16);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        // fix to avoid ODBC float to numeric
conversion problem.
        // rc = bcp_bind(c_hdbc1, (BYTE *) &c_balance,
0, SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 17);
        // if (rc != SUCCEEDED)
        //     HandleErrorDBC(c_hdbc1);
        rc = bcp_bind(c_hdbc1, (BYTE *) c_balance, 0, 5,
NULL, 0, SQLCHARACTER, 17);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) &c_ytd_payment,
0, SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 18);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) &c_payment_cnt,
0, SQL_VARLEN_DATA, NULL, 0, SQLINT2, 19);
        if (rc != SUCCEEDED)

```

```

        HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *)
&c_delivery_cnt, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
20);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = bcp_bind(c_hdbc1, (BYTE *) c_data, 0, 500,
NULL, 0, 0, 21);
        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;

            // fix to avoid ODBC float to
numeric conversion problem.
            // c_balance =
customer_buf[i].c_balance;
            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 != SUCCEEDED)
                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)
{
    int i;
    long c_id;
    short c_d_id;
    short c_w_id;
    double h_amount;
    char h_data[H_DATA_LEN+1];
    char h_date[H_DATE_LEN+1];

    RETCODE rc;

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

```

```

        rc = bcp_bind(c_hdbc2, (BYTE *) &h_date, 0,
H_DATE_LEN, NULL, 0, SQLCHARACTER, 6);
        if (rc != SUCCEED)
            HandleErrorDBC(c_hdbc2);

        rc = bcp_bind(c_hdbc2, (BYTE *) &h_amount, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 7);
        if (rc != SUCCEED)
            HandleErrorDBC(c_hdbc2);

        rc = bcp_bind(c_hdbc2, (BYTE *) h_data, 0,
H_DATA_LEN, NULL, 0, 0, 8);
        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;
    short                  w_id;
    short                  d_id;

```

```

DWORD
dwThreadId[MAX_ORDER_THREADS];
HANDLE
hThread[MAX_ORDER_THREADS];
char
name[20];
RETCODE
rc;
char
bcphint[128];

// 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("idxordc1");
    BuildIndex("idxnodc1");
    BuildIndex("idxodc1");
}

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

rc = bcp_init(o_hdbc1, name, NULL,
"logs\\orders.err", DB_IN);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc1);

if ((aptr->build_index == 1) && (aptr-
>index_order == 1))
{
    sprintf(bcphint, "tablock, order
(o_w_id, o_d_id, o_id), ROWS_PER_BATCH = %u", (aptr-
>num_warehouses * 30000));
    rc = bcp_control(o_hdbc1,
BCPHINTS, (void*) bcphint);
    if (rc != SUCCEED)

        HandleErrorDBC(o_hdbc1);
}

sprintf(name, "%s..%s", aptr->database,
"new_order");

rc = bcp_init(o_hdbc2, name, NULL,
"logs\\neword.err", DB_IN);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc2);

if ((aptr->build_index == 1) && (aptr-
>index_order == 1))
{
    sprintf(bcphint, "tablock, order
(no_w_id, no_d_id, no_o_id), ROWS_PER_BATCH = %u",
(aptr->num_warehouses * 9000));
    rc = bcp_control(o_hdbc2,
BCPHINTS, (void*) bcphint);
    if (rc != SUCCEED)

```

```

        HandleErrorDBC(o_hdbc2);
    }

    sprintf(name, "%s..%s", aptr->database,
"order_line");

    rc = bcp_init(o_hdbc3, name, NULL,
"logs\\ordline.err", DB_IN);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    if ((aptr->build_index == 1) && (aptr-
>index_order == 1))
    {
        sprintf(bcphint, "tablock, order
(ol_w_id, ol_d_id, ol_o_id, ol_number),
ROWS_PER_BATCH = %u", (aptr->num_warehouses *
300000));
        rc = bcp_control(o_hdbc3,
BCPHINTS, (void*) bcphint);
        if (rc != SUCCEED)

            HandleErrorDBC(o_hdbc3);
    }

    orders_rows_loaded = 0;
    new_order_rows_loaded = 0;
    order_line_rows_loaded = 0;

    OrdersBufInit();

    orders_time_start.time_start = (TimeNow() /
MILLI);
    new_order_time_start.time_start =
(TimeNow() / MILLI);
    order_line_time_start.time_start =
(TimeNow() / MILLI);

    for (w_id = (short)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
                                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(int d_id, int w_id)
{

```

```

int      cust[ORDERS_PER_DISTRICT+1];
long     o_id;
short    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_de
livery_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_deliver
y_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;
    short    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
rc = bcp_bind(o_hdbc1, (BYTE *) &o_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

```

```

rc = bcp_bind(o_hdbc1, (BYTE *) &o_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_c_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 4);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_entry_d,
0, O_ENTRY_D_LEN, NULL, 0, SQLCHARACTER, 5);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_carrier_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLCHARACTER, 5);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_ol_cnt, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 7);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = bcp_bind(o_hdbc1, (BYTE *) &o_all_local, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 8);
if (rc != SUCCEEDED)
    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 != SUCCEEDED)

    HandleErrorDBC(o_hdbc1);

    orders_rows_loaded++;

```



```

        CheckForCommit(o_hdbc1, o_hstmt1,
orders_rows_loaded, "orders", &orders_time_start-
>time_start);
    }

    // rcint = bcp_batch(o_hdbc1);
    // if (rcint < 0)
    //     HandleErrorDBC(o_hdbc1);

    if ((o_w_id == aptr->num_warehouses) &&
(o_d_id == 10))
    {
        rcint = bcp_done(o_hdbc1);

        if (rcint < 0)

            HandleErrorDBC(o_hdbc1);

        SQLFreeStmt(o_hstmt1, SQL_DROP);
        SQLDisconnect(o_hdbc1);
        SQLFreeConnect(o_hdbc1);

        // if build index after load...
        if ((aptr->build_index == 1) &&
(aptr->index_order == 0))
            BuildIndex("idxordcl");

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

//=====
//
// Function   : LoadNewOrderTable
//
//=====
void LoadNewOrderTable(LOADER_TIME_STRUCT
*new_order_time_start)
{
    int         i;
    long        o_id;
    short       o_d_id;
    short       o_w_id;
    RETCODE     rc;
    DBINT       rcint;

    // Bind NEW-ORDER data

    rc = bcp_bind(o_hdbc2, (BYTE *) &o_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);

    rc = bcp_bind(o_hdbc2, (BYTE *) &o_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);

```

```

    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);

    rc = bcp_bind(o_hdbc2, (BYTE *) &o_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
    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(o_hdbc2, o_hstmt2,
new_order_rows_loaded, "new_order",
&new_order_time_start->time_start);

        // rcint = bcp_batch(o_hdbc2);
        // if (rcint < 0)
        //     HandleErrorDBC(o_hdbc2);

        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)
{
    int         i,j;
    long        o_id;
    short       o_d_id;
    short       o_w_id;
    long        ol;
    long        ol_i_id;
    short       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
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &o_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &o_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_i_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_supply_w_id,
0, SQL_VARLEN_DATA, NULL, 0, SQLINT2, 6);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *)
&ol_delivery_d, 0, OL_DELIVERY_D_LEN, NULL, 0,
SQL_CHARACTER, 7);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_quantity, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 8);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_amount, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 9);

```

```

        if (rc != SUCCEEDED)
            HandleErrorDBC(o_hdbc3);

        rc = bcp_bind(o_hdbc3, (BYTE *) ol_dist_info, 0,
DIST_INFO_LEN, NULL, 0, 0, 10);
        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].o
l_dist_info);

                rc =
bcp_sendrow(o_hdbc3);
                if (rc != SUCCEEDED)

                    HandleErrorDBC(o_hdbc3);

                order_line_rows_loaded++;
                CheckForCommit(o_hdbc3,
o_hstmt3, order_line_rows_loaded, "order_line",
&order_line_time_start->time_start);
            }

            // rcint = bcp_batch(o_hdbc3);
            // if (rcint < 0)
            //     HandleErrorDBC(o_hdbc3);

            if ((o_w_id == aptr->num_warehouses) &&
(o_d_id == 10))
            {
                rcint = bcp_done(o_hdbc3);

                if (rcint < 0)

```

```

            HandleErrorDBC(o_hdbc3);

            SQLFreeStmt(o_hstmt3, SQL_DROP);
            SQLDisconnect(o_hdbc3);
            SQLFreeConnect(o_hdbc3);

            // if build index after load...
            if ((aptr->build_index == 1) &&
(aptr->index_order == 0))
                BuildIndex("idxodlcl");
        }
    }

//=====
//
// Function : GetPermutation
//
//=====
void GetPermutation(int perm[], int n)
{
    int i, r, t;

    for (i=1;i<=n;i++)
        perm[i] = i;

    for (i=1;i<=n;i++)
    {
        r = RandomNumber(i,n);
        t = perm[i];
        perm[i] = perm[r];
        perm[r] = t;
    }
}

//=====
//
// Function : CheckForCommit
//
//=====
void CheckForCommit(HDBC hdbc,
                    HSTMT hstmt,
                    int
rows_loaded,
                    char *table_name,
                    long
*time_start)
{
    long time_end, time_diff;

```

```

        // DBINT rcint;

        if ( !(rows_loaded % aptr->batch) )
        {
            // rcint = bcp_batch(hdbc);
            // if (rcint < 0)
            //     HandleErrorDBC(hdbc);

            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 : 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 != SUCCEEDED)
            HandleErrorDBC(i_hdbc1);

        rc = SQLDriverConnect ( i_hdbc1,

NULL,

(SQLCHAR*)&szDriverString[0] ,

SQL_NTS,

(SQLCHAR*)&szDriverStringOut[0],

sizeof(szDriverStringOut),

&cbDriverStringOut,

SQL_DRIVER_NOPROMPT );
        if (rc != SUCCEEDED)
            HandleErrorDBC(i_hdbc1);

        // 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 != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = SQLDriverConnect ( w_hdbc1,

NULL,

(SQLCHAR*)&szDriverString[0] ,

SQL_NTS,

(SQLCHAR*)&szDriverStringOut[0],

sizeof(szDriverStringOut),

&cbDriverStringOut,

SQL_DRIVER_NOPROMPT );
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        // 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 != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        rc = SQLDriverConnect ( c_hdbc1,

NULL,

(SQLCHAR*)&szDriverString[0] ,

SQL_NTS,

(SQLCHAR*)&szDriverStringOut[0],

```

```

        sizeof(szDriverStringOut),

&cbDriverStringOut,

SQL_DRIVER_NOPROMPT );
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

        // 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 != SUCCEEDED)
            HandleErrorDBC(c_hdbc2);

        rc = SQLDriverConnect ( c_hdbc2,

NULL,

(SQLCHAR*)&szDriverString[0] ,

SQL_NTS,

(SQLCHAR*)&szDriverStringOut[0],

sizeof(szDriverStringOut),

&cbDriverStringOut,

SQL_DRIVER_NOPROMPT );
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc2);

        // 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 != SUCCEEDED)
            HandleErrorDBC(o_hdbc1);

```

```

rc = SQLDriverConnect ( o_hdbc1,
    NULL,
    (SQLCHAR*)&szDriverString[0] ,
    SQL_NTS,
    (SQLCHAR*)&szDriverStringOut[0],
    sizeof(szDriverStringOut),
    &cbDriverStringOut,
    SQL_DRIVER_NOPROMPT );
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

// 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 != SUCCEEDED)
    HandleErrorDBC(o_hdbc2);

rc = SQLDriverConnect ( o_hdbc2,
    NULL,
    (SQLCHAR*)&szDriverString[0] ,
    SQL_NTS,
    (SQLCHAR*)&szDriverStringOut[0],
    sizeof(szDriverStringOut),
    &cbDriverStringOut,
    SQL_DRIVER_NOPROMPT );
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc2);

// 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 != SUCCEEDED)
    HandleErrorDBC(o_hdbc3);

rc = SQLDriverConnect ( o_hdbc3,
    NULL,
    (SQLCHAR*)&szDriverString[0] ,
    SQL_NTS,
    (SQLCHAR*)&szDriverStringOut[0],
    sizeof(szDriverStringOut),
    &cbDriverStringOut,
    SQL_DRIVER_NOPROMPT );
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc3);
}

//=====
//
// Function name: BuildIndex
//=====
void BuildIndex(char      *index_script)
{
    char      cmd[256];

    printf("Starting index creation:
%s\n",index_script);

    sprintf(cmd, "isql -S%s -U%s -P%s -e -
i%s\\%s.sql > logs\\%s.log",
        aptr->server,
        aptr->user,
        aptr->password,
        aptr->index_script_path,
        index_script,
        index_script);

    system(cmd);

    printf("Finished index creation:
%s\n",index_script);
}

```

```

void HandleErrorDBC (SQLHDBC hdbc1)
{
    SQLCHAR      SqlState[6],
    Msg[SQL_MAX_MESSAGE_LENGTH];
    SQLINTEGER NativeError;
    SQLSMALLINT i, MsgLen;
    SQLRETURN rc2;
    char      timebuf[128];
    char      datebuf[128];
    FILE      *fp1;

    i = 1;
    while (( rc2 = SQLGetDiagRec(SQL_HANDLE_DBC
, hdbc1, i, SqlState, &NativeError,
    Msg,
    sizeof(Msg) , &MsgLen )) != SQL_NO_DATA )
    {
        printf( szLastError , "%s" ,
            Msg );

        _strtime(timebuf);
        _strdate(datebuf);

        printf ( "[%s : %s] %s\n" ,
            datebuf, timebuf, szLastError);

        fp1 =
            fopen("logs\\tpccldr.err","w");
        if (fp1 == NULL)
            printf("ERROR: Unable
to open errorlog file.\n");
        else
        {
            fprintf(fp1, "[%s : %s]
%s\n" , datebuf, timebuf, szLastError);
            fclose(fp1);
        }
        i++;
    }
}

void HandleErrorSTMT (HSTMT hstmt1)
{
    SQLCHAR      SqlState[6],
    Msg[SQL_MAX_MESSAGE_LENGTH];
    SQLINTEGER NativeError;
    SQLSMALLINT i, MsgLen;
    SQLRETURN rc2;
    char      timebuf[128];
    char      datebuf[128];
    FILE      *fp1;

    i = 1;
    while (( rc2 =
SQLGetDiagRec(SQL_HANDLE_STMT , hstmt1, i, SqlState ,
&NativeError,

```

```

                                Msg,
sizeof(Msg) , &MsgLen ) != SQL_NO_DATA )
{
    sprintf( szLastError , "%s" ,
Msg );
    _strtime(timebuf);
    _strdate(datebuf);
    printf( "[%s : %s] %s\n" ,
datebuf, timebuf, szLastError);
    fp1 =
fopen("logs\\tpccldr.err","w");
    if (fp1 == NULL)
        printf("ERROR: Unable
to open errorlog file.\n");
    else
    {
        fprintf(fp1, "[%s : %s]
%s\n" , datebuf, timebuf, szLastError);
        fclose(fp1);
    }
    i++;
}

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;
}

//=====
//
// Function : CheckSQL
//
//=====
void CheckSQL()
{
    RETCODE rc;

```

```

char
szDriverString[300];
char
szDriverStringOut [1024];
int
SQLBuildFlag;
char
resp;

SQLSMALLINT
cbDriverStringOut;
SQLCHAR
SQLVersion[19];
SQLINTEGER
SQLVersionInd;

SQLAllocHandle(SQL_HANDLE_ENV,
SQL_NULL_HANDLE, &henv );
SQLSetEnvAttr(henv, SQL_ATTR_ODBC_VERSION,
(void*)SQL_OV_ODBC3, 0 );
SQLAllocHandle(SQL_HANDLE_DBC, henv ,
&v_hdbc);
SQLSetConnectAttr(v_hdbc, SQL_COPT_SS_BCP,
(void *)SQL_BCP_ON, SQL_IS_INTEGER );

// Open connection to SQL Server
sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s" ,
aptr->server,
aptr->user,
aptr->password );
if ( SQLSetConnectAttr( v_hdbc,
SQL_ATTR_PACKET_SIZE, (SQLPOINTER)aptr->pack_size,
SQL_IS_UINTEGER ) != SQL_SUCCESS )
    HandleErrorDBC(v_hdbc);
rc = SQLDriverConnect ( v_hdbc,
NULL,
(SQLCHAR*)&szDriverString[0] ,
SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0],
sizeof(szDriverStringOut),
&cbDriverStringOut,
SQL_DRIVER_NOPROMPT );
if ((rc != SQL_SUCCESS) && (rc !=
SQL_SUCCESS_WITH_INFO))

```

```

    HandleErrorDBC(v_hdbc);
    if ( SQLAllocHandle(SQL_HANDLE_STMT, v_hdbc
, &v_hstmt) != SQL_SUCCESS )
        HandleErrorSTMT(v_hstmt);
    rc = SQLBindCol(v_hstmt, 4, SQL_C_CHAR,
&SQLVersion, sizeof(SQLVersion), &SQLVersionInd);
    // issue SQL Server extended stored
procedure (xp_msver) to determine installed version
    rc = SQLExecDirect(v_hstmt, "EXECUTE
xp_msver ProductVersion", SQL_NTS);
    if ((rc != SQL_SUCCESS) && (rc !=
SQL_SUCCESS_WITH_INFO))
        HandleErrorSTMT(v_hstmt);
    rc = SQLFetch(v_hstmt);
    if (rc != SQL_SUCCESS)
        HandleErrorDBC(v_hdbc);
    // Check build number to ensure 8.00.194 or
higher
    SQLBuildFlag = 1;
    // first check the Major version
    if ( SQLVersion[0] == '8' )
    {
        if (( SQLVersion[2] == '0') & (
SQLVersion[3] == '0' ) )
        {
            if ( SQLVersion[5] ==
'1' )
            {
                if (
(SQLVersion[6] == '9') & (SQLVersion[7] == '4') )
                {
                    SQLBuildFlag = 0;
                    printf("You are using SQL Server version =
%s\n\n", SQLVersion);
                }
            }
        }
        else
        {
            SQLBuildFlag = 1;
        }
    }
    else
    {
        if (
SQLVersion[5] == '3' )
        {
            if (
(SQLVersion[6] >= 53) & (SQLVersion[7] >= 48) )

```

```

    {
        SQLBuildFlag = 0;
        printf("You are using SQL Server version =
        %9s\n\n", SQLVersion);
    }
    else
    {
        SQLBuildFlag = 1;
    }
}
}
else
{
    SQLBuildFlag = 1;
}
if ( SQLBuildFlag == 1 )
{
    printf("NOTE: The SQL Server
    version you are using is not supported\n");
    printf("for TPC-C benchmarking.
    You currently have SQL Server version
    %9s\n",SQLVersion);
    printf("installed. Please
    upgrade to Microsoft SQL Server 2000 (8.00.0194) or
    better.\n");
    printf("and re-run the SETUP
    program.\n\n");
    printf("Do you wish to continue
    with setup? (Y/N): ");
    resp = getchar();
    if ( ( resp == 'N' ) || (resp ==
    'n') )
    {
        printf("\nSetup
        Aborted!\n");
        exit(1);
    }
    SQLFreeHandle(SQL_HANDLE_STMT, v_hstmt);
    SQLDisconnect(v_hdbc);
    SQLFreeHandle(SQL_HANDLE_DBC, v_hdbc);
    return;
}
//=====
//
// Function : CheckDataBase
//
//=====

```

```

void CheckDataBase()
{
    RETCODE rc;
    char
    szDriverString[300];
    char
    szDriverStringOut[1024];
    char
    TablesBitMap[9] = {"000000000"};
    int
    ExitFlag;
    SQLSMALLINT
    cbDriverStringOut;
    SQLCHAR
    TabName[10];
    SQLINTEGER
    TabNameInd,
    TabCount, TabCountInd;
    ExitFlag = 0;
    SQLAllocHandle(SQL_HANDLE_ENV,
    SQL_NULL_HANDLE, &henv );
    SQLSetEnvAttr(henv, SQL_ATTR_ODBC_VERSION,
    (void*)SQL_OV_ODBC3, 0 );
    SQLAllocHandle(SQL_HANDLE_DBC, henv ,
    &v_hdbc);
    SQLSetConnectAttr(v_hdbc, SQL_COPT_SS_BCP,
    (void *)SQL_BCP_ON, SQL_IS_INTEGER );
    // Open connection to SQL Server
    sprintf( szDriverString , "DRIVER={SQL
    Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
    aptr->server,
    aptr->user,
    aptr->password,
    aptr->database );
    rc = SQLSetConnectAttr( v_hdbc,
    SQL_ATTR_PACKET_SIZE, (SQLPOINTER)aptr->pack_size,
    SQL_IS_INTEGER );
    if (rc != SQL_SUCCESS)
        HandleErrorDBC(v_hdbc);
    rc = SQLDriverConnect ( v_hdbc,
    NULL,
    (SQLCHAR*)&szDriverString[0] ,
    SQL_NTS,
    (SQLCHAR*)&szDriverStringOut[0],

```

```

    sizeof(szDriverStringOut),
    &cbDriverStringOut,
    SQL_DRIVER_NOPROMPT );
    // if the rc is SQL_ERROR, the the TPCC
    database probably does not exist
    if (rc == SQL_ERROR)
    {
        printf("The database TPCC does
        not appear to exist!\n");
        printf("\nCheck LOGS\\ directory
        for database creation errors.\n");
        // cleanup database connections
        and handles
        SQLFreeHandle(SQL_HANDLE_STMT,
        v_hstmt);
        SQLDisconnect(v_hdbc);
        SQLFreeHandle(SQL_HANDLE_DBC,
        v_hdbc);
        // since there is not a database,
        exit back to SETUP.CMD
        exit(1);
    }
    if ( SQLAllocHandle(SQL_HANDLE_STMT, v_hdbc
    , &v_hstmt) != SQL_SUCCESS )
        HandleErrorDBC(v_hdbc);
    if ( SQLBindCol(v_hstmt, 1, SQL_C_ULONG,
    &TabCount, 0, &TabCountInd) != SQL_SUCCESS )
        HandleErrorSTMT(v_hstmt);
    // count the number of user tables from
    sysobjects
    rc = SQLExecDirect(v_hstmt, "select
    count(*) from sysobjects where xtype = '\U\',"
    , SQL_NTS);
    if ((rc != SQL_SUCCESS) && (rc !=
    SQL_SUCCESS_WITH_INFO))
        HandleErrorSTMT(v_hstmt);
    if ( SQLFetch(v_hstmt) != SQL_SUCCESS )
        HandleErrorSTMT(v_hstmt);
    // if the number of tables is less than 9,
    select all the user tables in TPCC
    if (TabCount != 9)
    {
        SQLFreeHandle(SQL_HANDLE_STMT,
        v_hstmt);
        SQLAllocHandle(SQL_HANDLE_STMT,
        v_hdbc , &v_hstmt);
        if ( SQLBindCol(v_hstmt, 1,
        SQL_C_CHAR, &TabName, sizeof(TabName), &TabNameInd)
        != SQL_SUCCESS )

```

```

        HandleErrorSTMT(v_hstmt);
    // select the list of user tables
    into a result set
        rc = SQLExecDirect(v_hstmt,
"select * from sysobjects where xtype = \U\',"
SQL_NTS);
        if ((rc != SQL_SUCCESS) && (rc !=
SQL_SUCCESS_WITH_INFO))
            HandleErrorSTMT(v_hstmt);

        // go through the result set and
    set the bitmap for each found table
        // set the bitmap to '1' if the
    table name is found

        while ((rc = SQLFetch(v_hstmt))
!= SQL_NO_DATA)
        {
            switch( TabName[0] )
            {
                case 'w':

TablesBitMap[0] = '1';
                break;
                case 'd':

TablesBitMap[1] = '1';
                break;
                case 'c':

TablesBitMap[2] = '1';
                break;
                case 'h':

TablesBitMap[3] = '1';
                break;
                case 'n':

TablesBitMap[4] = '1';
                break;
                case 'o':
                    if
(TabName[5] = 's')
                        TablesBitMap[5] = '1';
                    if
(TabName[5] = '_')
                        TablesBitMap[6] = '1';
                    break;
                case 'i':

TablesBitMap[7] = '1';
                break;
                case 's':

TablesBitMap[8] = '1';
                break;
            }
        }
    }

```

```

        // a '0' ExitFlag means do NOT
    exit the loader early, a '1' means exit the loader
    early
        ExitFlag = 0;

        // iterate through the bitmap to
    display which table(s) is actually missing
        for (i = 0; i <= 8; i++)
        {
            switch(i)
            {
                case 0:
                    if
(TablesBitMap[i] == '0')
                        printf("The Warehouse table is missing or
damaged.\n");
                    ExitFlag = 1;
                    break;
                case 1:
                    if
(TablesBitMap[i] == '0')
                        printf("The District table is missing or
damaged.\n");
                    ExitFlag = 1;
                    break;
                case 2:
                    if
(TablesBitMap[i] == '0')
                        printf("The Customer table is missing or
damaged.\n");
                    ExitFlag = 1;
                    break;
                case 3:
                    if
(TablesBitMap[i] == '0')
                        printf("The History table is missing or
damaged.\n");
                    ExitFlag = 1;
                    break;
                case 4:
                    if
(TablesBitMap[i] == '0')
                        printf("The New_Order table is missing or
damaged.\n");
                    break;
            }
        }
    }

```

```

        ExitFlag = 1;
        }
        break;
        case 5:
            if
(TablesBitMap[i] == '0')
                printf("The Orders table is missing or
damaged.\n");
            ExitFlag = 1;
            break;
        case 6:
            if
(TablesBitMap[i] == '0')
                printf("The Order_Line table is missing or
damaged.\n");
            ExitFlag = 1;
            break;
        case 7:
            if
(TablesBitMap[i] == '0')
                printf("The Item table is missing or
damaged.\n");
            ExitFlag = 1;
            break;
        case 8:
            if
(TablesBitMap[i] == '0')
                printf("The Stock table is missing or
damaged.\n");
            ExitFlag = 1;
            break;
        }
    }

    // if one or more tables are
    missing, display message and exit the loader
    if (ExitFlag = 1)
    {
        printf("\nExiting TPC-C
Loader!\n");
        printf("\nCheck LOGS\
directory for database\n");
        printf("or table
creation errors.\n");
    }

```

```

// cleanup database
connections and handles

SQLFreeHandle(SQL_HANDLE_STMT, v_hstmt);
SQLDisconnect(v_hdbc);

SQLFreeHandle(SQL_HANDLE_DBC, v_hdbc);

exit(1);
}

// cleanup database connections and handles
SQLFreeHandle(SQL_HANDLE_STMT, v_hstmt);
SQLDisconnect(v_hdbc);
SQLFreeHandle(SQL_HANDLE_DBC, v_hdbc);

return;
}

```

version.sql

```

-- File:      VERSION.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Returns version level of TPC-C stored
procs
-- Note:     Always update the return value of this
proc for
--           any interface changes or "must have"
bug fixes.
--
-- The value returned by this SP defines the
"interface level",
-- which must match between the stored procs and the
client code.
-- The interface level may be down rev from the
current kit. This
-- indicates that the interface hasn't changed since
that version.

use tpcc
go

if exists ( select name from sysobjects where name =
"tpcc_version" )
drop procedure tpcc_version
go

create proc tpcc_version
as
declare @version char(8)

begin
select @version = "4.10.000"
select @version as "Version"

end

go

```

null-txns.sql

```

-- TPC-C Null Txn Stored Procs
-- Microsoft TPC-C Kit
-- 8/17/99
--
-- 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.
--
-- The purpose of these stored procs is to size and
test the web client without the need of a fully
-- scaled database.
--
drop proc tpcc_delivery
drop proc tpcc_neworder
drop proc tpcc_orderstatus
drop proc tpcc_payment
drop proc tpcc_stocklevel
drop proc tpcc_version
drop table order_line_null
go

create proc tpcc_delivery @w_id
smallint,

@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

declare @delaytime varchar(30)

-- uniform random delay of 0 - 1 second; avg = 0.50
select @delaytime = '00:00:0' +
cast(cast((rand()*1.00) as decimal(4,3)) as char(5))
waitfor delay @delaytime

select 3001, 3001, 3001, 3001, 3001, 3001, 3001,
3001, 3001, 3001

GO

```

```

create proc tpcc_neworder

@w_id smallint,

@d_id tinyint,

@c_id int,

@o_ol_cnt tinyint,

@o_all_local tinyint,

@i_id1 int = 0, @s_w_id1 smallint = 0,
@ol_qty1 smallint = 0,

@i_id2 int = 0, @s_w_id2 smallint = 0,
@ol_qty2 smallint = 0,

@i_id3 int = 0, @s_w_id3 smallint = 0,
@ol_qty3 smallint = 0,

@i_id4 int = 0, @s_w_id4 smallint = 0,
@ol_qty4 smallint = 0,

@i_id5 int = 0, @s_w_id5 smallint = 0,
@ol_qty5 smallint = 0,

@i_id6 int = 0, @s_w_id6 smallint = 0,
@ol_qty6 smallint = 0,

@i_id7 int = 0, @s_w_id7 smallint = 0,
@ol_qty7 smallint = 0,

@i_id8 int = 0, @s_w_id8 smallint = 0,
@ol_qty8 smallint = 0,

@i_id9 int = 0, @s_w_id9 smallint = 0,
@ol_qty9 smallint = 0,

@i_id10 int = 0, @s_w_id10 smallint = 0,
@ol_qty10 smallint = 0,

@i_id11 int = 0, @s_w_id11 smallint = 0,
@ol_qty11 smallint = 0,

@i_id12 int = 0, @s_w_id12 smallint = 0,
@ol_qty12 smallint = 0,

@i_id13 int = 0, @s_w_id13 smallint = 0,
@ol_qty13 smallint = 0,

@i_id14 int = 0, @s_w_id14 smallint = 0,
@ol_qty14 smallint = 0,

@i_id15 int = 0, @s_w_id15 smallint = 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

declare @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
select @commit_flag = 0
end
else
begin

```

```

select 'Item Name blah',17,'G',
@i_price, @i_price * @li_qty
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 proc tpcc_orderstatus @w_id
smallint,
@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),
@c_id int,
@o_entry_d datetime,
@o_carrier_id smallint,
@ol_cnt smallint

declare @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 proc tpcc_payment @w_id smallint,
@c_w_id smallint,
@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    smallint,
                @c_id_local    int

declare @delaytime varchar(30)

-- uniform random delay of 0 - 0.3 second; avg =
0.15
select @delaytime = '00:00:0' +
cast(cast((rand()*0.30) 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 proc tpcc_stocklevel @w_id
    smallint,
    @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()*3.60) as decimal(4,3)) as char(5))
waitfor delay @delaytime

select 49

GO

```

```

create proc 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] [smallint] 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

/* TPC-C Benchmark Kit
*/
/*
*/
*/

```

RunSQLCfg.sql

```
/* RUNSQLCFG.SQL
*/
/*
*/
/* This script file is used to set 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
```

Appendix C: Tunable Parameters

Microsoft SQL Server 2000 Startup Parameters

```
start sqlservr.exe -c -x -t3502 -T3428 -g124
```

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
-T3428 Fast recovery flag
-g44 Specify the amount of virtual address space
in MB, SQL Server will leave available for memory
allocations, excluding the buffer pool and threads
stack, such as dynamically- loaded DLLs, extended
procedure calls, etc. Incorrect use of this option
can lead to conditions under which SQL Server may not
start or may encounter runtime errors.
```

File locations:

```
sqlserver.exe C:\SQL
Server\MSSQL\BINN
ERRORLOG C:\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" /noexecute /fastdetect /pae
```

Microsoft SQL Server 2000 Configuration Parameters

```
C:\David_server\Scripts>osql -E
```

```
1> sp_configure
```

```
2> go
```

name	config_value	minimum
maximum	run_value	

affinity mask	15	-2147483648
2147483647	15	
allow updates	15	0
1	0	
awe enabled	0	0
1	1	
c2 audit mode	1	0
1	0	
cost threshold for parallelism	32767	0
	5	
Cross DB Ownership Chaining	5	0
1	0	
cursor threshold	0	-1
2147483647	-1	
default full-text language	1033	0
2147483647	1033	
default language	1033	0
9999	0	
fill factor (%)	0	0
100	0	
index create memory (KB)	704	704
2147483647	704	
lightweight pooling	704	0
1	1	
locks	1	5000
2147483647	0	
max degree of parallelism	0	0
32	1	
max server memory (MB)	1	4
2147483647	63800	

max text repl size (B)	63800	0
2147483647	65536	
max worker threads	65536	32
32767	600	
media retention	600	0
365	0	
min memory per query (KB)	0	512
2147483647	512	
min server memory (MB)	512	0
2147483647	0	
nested triggers	0	0
1	1	
network packet size (B)	1	512
65536	4096	
open objects	4096	0
2147483647	0	
priority boost	0	0
1	1	
query governor cost limit	1	0
2147483647	0	
query wait (s)	0	-1
2147483647	-1	
recovery interval (min)	-1	0
32767	80	
remote access	80	0
1	1	
remote login timeout (s)	1	0
2147483647	20	
remote proc trans	20	0
1	0	
remote query timeout (s)	0	0
2147483647	600	
scan for startup proc	600	0
1	0	
set working set size	0	0
1	0	
show advanced options	0	0
1	1	
two digit year cutoff	1	1753
9999	2049	
user connections	2049	0
32767	0	

user options 0
32767 0
0

Benchcraft Profile

Profile: Firebird_9792_2nics_12
File Path: C:\Benchcraft\Firebird_9792_2nics_12.pro
Version: 3

Number of Engines: 12

Name: RTE2
Description:
Directory: c:\blog\rte2.log
Machine: n13
Parameter Set: 1.4
Index: 100000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER53164609
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 0

Name: RTE1
Description:
Directory: c:\blog\rte1.log
Machine: n12
Parameter Set: 1.4
Index: 700000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER44265281
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 0

Name: RTE3
Description:
Directory: c:\blog\rte3.log
Machine: n14
Parameter Set: 1.4
Index: 200000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER3439676359
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 0

Name: RTE4
Description:
Directory: c:\blog\rte4.log
Machine: n15
Parameter Set: 1.4

Index: 300000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER4439706187
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 0

Name: RTE5
Description:
Directory: c:\blog\rte5.log
Machine: n16
Parameter Set: 1.4
Index: 400000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER5346413218
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 0

Name: RTE6
Description:
Directory: c:\blog\rte6.log
Machine: n12
Parameter Set: 1.4
Index: 500000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER62226046
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 1

Name: RTE7
Description:
Directory: c:\blog\rte7.log
Machine: n13
Parameter Set: 1.4
Index: 600000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER72289718
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 1

Name: RTE8
Description:
Directory: c:\blog\rte8.log
Machine: n14
Parameter Set: 1.4
Index: 700000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER82325578
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0

CLIENT_NURAND: 25
CPU: 1

Name: RTE9
Description:
Directory: c:\blog\rte9.log
Machine: n15
Parameter Set: 1.4
Index: 800000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER92360187
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 1

Name: RTE10
Description:
Directory: c:\blog\rte10.log
Machine: n16
Parameter Set: 1.4
Index: 900000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER102399796
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 1

Name: DRIVER11
Description:
Directory: c:\blog\rte11.log
Machine: N1
Parameter Set: 1.4
Index: 1000000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER1122682203
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 0

Name: DRIVER12
Description:
Directory: c:\blog\rte12.log
Machine: N1
Parameter Set: 1.4
Index: 1100000000
Seed: 4678
Configured Users: 8160
Pipe Name: DRIVER122731546
Connect Rate: 100000
Start Rate: 100000
Max. Concurrency: 8160
Concurrency Rate: 0
CLIENT_NURAND: 25
CPU: 1

Number of User groups: 12

Driver Engine: RTE1
IIS Server: cr150
SQL Server: firebird

Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 1 - 816
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: RTE2
 IIS Server: cr151
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 817 - 1632
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: RTE3
 IIS Server: cr152
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 1633 - 2448
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: RTE4
 IIS Server: cr153
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 2449 - 3264
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: RTE5
 IIS Server: cr154
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 3265 - 4080
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: RTE6
 IIS Server: cr150
 SQL Server: firebird
 Database: tpcc
 User: sa

Protocol: HTML
 w_id Range: 4081 - 4896
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: RTE7
 IIS Server: cr151
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 4897 - 5712
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: RTE8
 IIS Server: cr152
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 5713 - 6528
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: RTE9
 IIS Server: cr153
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 6529 - 7344
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: RTE10
 IIS Server: cr154
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 7345 - 8160
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: DRIVER11
 IIS Server: cl155
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 8161 - 8976

w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Driver Engine: DRIVER12
 IIS Server: cl155
 SQL Server: firebird
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 8977 - 9792
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9792
 Scale: Normal
 User Count: 8160
 District id: 1
 Scale Down: No

Number of Parameter Sets: 66

~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	5.00	0.00	
			Payment	10.00	
0.00	0.00	0.00	5.00	0.00	
			Delivery	1.00	
0.00	0.00	0.00	5.00	0.00	
			Stock Level	1.00	
0.00	0.00	0.00	20.00	0.00	

Key	RT	RT	Menu	Txn	Think
0.00	0.00	0.00	Order Status	5.00	1.00 0.00
95%					
Time	Delay	Fence	Delay	Weight	Time
13.00	18.01		New Order	5.00	44.75 0.10
13.00	3.01		Payment	5.00	43.10 0.10
6.00	2.01		Delivery	5.00	4.05 0.10
6.00	2.01		Stock Level	20.00	4.05 0.10
11.00	2.01		Order Status	5.00	4.05 0.10
90%					
Time	Delay	Fence	Delay	Weight	Time
16.00	18.01		New Order	5.00	44.83 0.10
16.00	3.01		Payment	5.00	43.05 0.10
9.00	2.01		Delivery	5.00	4.04 0.10
9.00	2.01		Stock Level	20.00	4.04 0.10
14.00	2.01		Order Status	5.00	4.04 0.10
3.0					
Time	Delay	Fence	Delay	Weight	Time
36.15	0.00		New Order	5.00	44.75 0.10
36.15	0.00		Payment	5.00	43.10 0.10
15.15	0.00		Delivery	5.00	4.05 0.10
15.15	0.00		Stock Level	20.00	4.05 0.10
30.15	0.00		Order Status	5.00	4.05 0.10
4.0					
Time	Delay	Fence	Delay	Weight	Time
48.20	18.01		New Order	5.00	44.75 0.10
48.20	3.01		Payment	5.00	43.10 0.10
20.20	2.01		Delivery	5.00	4.05 0.10
20.20	2.01		Stock Level	20.00	4.05 0.10
40.20	2.01		Order Status	5.00	4.05 0.10
3.8					

Key	RT	RT	Menu	Txn	Think
45.70	18.01		New Order	5.00	44.75 0.10
45.70	3.01		Payment	5.00	43.10 0.10
19.10	2.01		Delivery	5.00	4.05 0.10
19.10	2.01		Stock Level	20.00	4.05 0.10
38.10	2.01		Order Status	5.00	4.05 0.10
3.6					
Time	Delay	Fence	Delay	Weight	Time
43.30	18.01		New Order	5.00	44.75 0.10
43.30	3.01		Payment	5.00	43.10 0.10
18.10	2.01		Delivery	5.00	4.05 0.10
18.10	2.01		Stock Level	20.00	4.05 0.10
36.18	2.01		Order Status	5.00	4.05 0.10
3.4					
Time	Delay	Fence	Delay	Weight	Time
40.90	18.01		New Order	5.00	44.75 0.10
40.90	3.01		Payment	5.00	43.10 0.10
17.10	2.01		Delivery	5.00	4.05 0.10
17.10	2.01		Stock Level	20.00	4.05 0.10
17.10	2.01		Order Status	5.00	4.05 0.10
3.2					
Time	Delay	Fence	Delay	Weight	Time
38.50	18.01		New Order	5.00	44.75 0.10
38.50	3.01		Payment	5.00	43.10 0.10
16.10	2.01		Delivery	5.00	4.05 0.10
16.10	2.01		Stock Level	20.00	4.05 0.10
32.10	2.01		Order Status	5.00	4.05 0.10
2.8					
Time	Delay	Fence	Delay	Weight	Time
24.10	18.01		New Order	5.00	44.75 0.10

Time	Delay	Fence	Delay	Weight	Time
33.74	18.01		New Order	5.00	44.75 0.10
33.74	3.01		Payment	5.00	43.10 0.10
14.14	2.01		Delivery	5.00	4.05 0.10
14.14	2.01		Stock Level	20.00	4.05 0.10
28.14	2.01		Order Status	5.00	4.05 0.10
2.6					
Time	Delay	Fence	Delay	Weight	Time
31.30	18.01		New Order	5.00	44.75 0.10
31.30	3.01		Payment	5.00	43.10 0.10
13.10	2.01		Delivery	5.00	4.05 0.10
13.10	2.01		Stock Level	20.00	4.05 0.10
26.10	2.01		Order Status	5.00	4.05 0.10
2.4					
Time	Delay	Fence	Delay	Weight	Time
28.90	18.01		New Order	5.00	44.75 0.10
28.90	3.01		Payment	5.00	43.10 0.10
12.10	2.01		Delivery	5.00	4.05 0.10
12.10	2.01		Stock Level	20.00	4.05 0.10
24.10	2.01		Order Status	5.00	4.05 0.10
2.2					
Time	Delay	Fence	Delay	Weight	Time
28.90	18.01		New Order	5.00	44.75 0.10
28.90	3.01		Payment	5.00	43.10 0.10
12.10	2.01		Delivery	5.00	4.05 0.10
12.10	2.01		Stock Level	20.00	4.05 0.10
24.12	2.01		Order Status	5.00	4.05 0.10
2.0					
Time	Delay	Fence	Delay	Weight	Time
24.10	18.01		New Order	5.00	44.75 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	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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	
			1.9			
			1.9 tt			
Key	RT	RT	Menu	Txn	Think	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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	
Time	Delay	Fence	Delay	Weight	Time	
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
Time	Delay	Fence	Delay	Weight	Time
13.13	18.01		New Order 0.10	5.00	44.83 0.10
13.13	3.01		Payment 0.10	5.00	43.05 0.10
5.50	2.01		Delivery 0.10	5.00	4.04 0.10
5.50	2.01		Stock Level 0.10	20.00	4.04 0.10
10.95	2.01		Order Status 0.10	5.00	4.04 0.10
1.08					
1.08 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
13.01	18.01		New Order 0.10	5.00	44.83 0.10
13.01	3.01		Payment 0.10	5.00	43.05 0.10
5.45	2.01		Delivery 0.10	5.00	4.04 0.10
5.45	2.01		Stock Level 0.10	20.00	4.04 0.10
10.85	2.01		Order Status 0.10	5.00	4.04 0.10
1.07					
1.07 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.89	18.01		New Order 0.10	5.00	44.83 0.10
12.89	3.01		Payment 0.10	5.00	43.05 0.10
5.40	2.01		Delivery 0.10	5.00	4.04 0.10
5.40	2.01		Stock Level 0.10	20.00	4.04 0.10
10.75	2.01		Order Status 0.10	5.00	4.04 0.10
1.06					
1.06 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.77	18.01		New Order 0.10	5.00	44.83 0.10
12.77	3.01		Payment 0.10	5.00	43.05 0.10
5.35	2.01		Delivery 0.10	5.00	4.04 0.10
5.35	2.01		Stock Level 0.10	20.00	4.04 0.10
10.65	2.01		Order Status 0.10	5.00	4.04 0.10
1.15					
1.15 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time

13.85	18.01		New Order 0.10	5.00	44.75 0.10
13.85	3.01		Payment 0.10	5.00	43.10 0.10
5.80	2.01		Delivery 0.10	5.00	4.05 0.10
5.80	2.01		Stock Level 0.10	20.00	4.05 0.10
11.55	2.01		Order Status 0.10	5.00	4.05 0.10
1.25					
1.25 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
15.06	18.01		New Order 0.10	5.00	44.83 0.10
15.06	3.01		Payment 0.10	5.00	43.05 0.10
6.31	2.01		Delivery 0.10	5.00	4.04 0.10
6.31	2.01		Stock Level 0.10	20.00	4.04 0.10
12.56	2.01		Order Status 0.10	5.00	4.04 0.10
1.3					
1.3 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
15.66	18.01		New Order 0.10	5.00	44.83 0.10
15.66	3.01		Payment 0.10	5.00	43.05 0.10
6.56	2.01		Delivery 0.10	5.00	4.04 0.10
6.56	2.01		Stock Level 0.10	20.00	4.04 0.10
13.06	2.01		Order Status 0.10	5.00	4.04 0.10
1.12					
1.12 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
13.49	18.01		New Order 0.10	5.00	44.75 0.10
13.49	3.01		Payment 0.10	5.00	43.10 0.10
5.65	2.01		Delivery 0.10	5.00	4.05 0.10
5.65	2.01		Stock Level 0.10	20.00	4.05 0.10
11.25	2.01		Order Status 0.10	5.00	4.05 0.10
1.18					
1.18 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
14.21	18.01		New Order 0.10	5.00	44.75 0.10
14.21	3.01		Payment 0.10	5.00	43.10 0.10

5.95	2.01		Delivery 0.10	5.00	4.05 0.10
5.95	2.01		Stock Level 0.10	20.00	4.05 0.10
11.85	2.01		Order Status 0.10	5.00	4.05 0.10
1.22					
1.22 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
14.70	18.01		New Order 0.10	5.00	44.75 0.10
14.70	3.01		Payment 0.10	5.00	43.10 0.10
6.16	2.01		Delivery 0.10	5.00	4.05 0.10
6.16	2.01		Stock Level 0.10	20.00	4.05 0.10
12.26	2.01		Order Status 0.10	5.00	4.05 0.10
1.28					
1.28 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
15.42	18.01		New Order 0.10	5.00	44.75 0.10
15.42	3.01		Payment 0.10	5.00	43.10 0.10
6.46	2.01		Delivery 0.10	5.00	4.05 0.10
6.46	2.01		Stock Level 0.10	20.00	4.05 0.10
12.86	2.01		Order Status 0.10	5.00	4.05 0.10
1.04					
1.04 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.53	18.01		New Order 0.10	5.00	44.83 0.10
12.53	3.01		Payment 0.10	5.00	43.05 0.10
5.25	2.01		Delivery 0.10	5.00	4.04 0.10
5.25	2.01		Stock Level 0.10	20.00	4.04 0.10
10.45	2.01		Order Status 0.10	5.00	4.04 0.10
1.03					
1.03 tt					
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.41	18.01		New Order 0.10	5.00	44.83 0.10
12.41	3.01		Payment 0.10	5.00	43.05 0.10
5.20	2.01		Delivery 0.10	5.00	4.04 0.10
5.20	2.01		Stock Level 0.10	20.00	4.04 0.10

Key	RT	RT	Menu	Txn	Think
10.35	2.01		Order Status	4.04	0.10
			1.02		
			1.02 tt		
Time	Delay	Fence	Delay	Weight	Time
12.29	18.01		New Order	44.83	0.10
12.29	3.01		Payment	43.05	0.10
5.15	2.01		Delivery	4.04	0.10
5.15	2.01		Stock Level	4.04	0.10
10.25	2.01		Order Status	4.04	0.10
			1.01		
			1.01 tt		
Key	RT	RT	Menu	Txn	Think
12.17	18.01		New Order	44.83	0.10
12.17	3.01		Payment	43.05	0.10
5.10	2.01		Delivery	4.04	0.10
5.10	2.01		Stock Level	4.04	0.10
10.15	2.01		Order Status	4.04	0.10
			1.005_best		
			1.005 tt best		
Key	RT	RT	Menu	Txn	Think
12.11	18.01		New Order	44.88	0.10
12.11	3.01		Payment	43.02	0.10
5.07	2.01		Delivery	4.03	0.10
5.07	2.01		Stock Level	4.03	0.10
10.10	2.01		Order Status	4.03	0.10
			1.001_best		
			1.001 tt best		
Key	RT	RT	Menu	Txn	Think
12.06	18.01		New Order	44.90	0.10
12.06	3.01		Payment	43.06	0.10
5.06	2.01		Delivery	4.00	0.10
5.06	2.01		Stock Level	4.03	0.10
10.06	2.01		Order Status	4.01	0.10
			1.03 better		

Key	RT	RT	Menu	Txn	Think
			1.03 tt more aggressive		
Time	Delay	Fence	Delay	Weight	Time
12.41	18.01		New Order	44.92	0.10
12.41	3.01		Payment	43.01	0.10
5.20	2.01		Delivery	4.02	0.10
5.20	2.01		Stock Level	4.03	0.10
10.35	2.01		Order Status	4.02	0.10
			1.005 better		
			1.005 tt more aggressive		
Key	RT	RT	Menu	Txn	Think
12.11	18.01		New Order	44.90	0.10
12.11	3.01		Payment	43.05	0.10
5.07	2.01		Delivery	4.01	0.10
5.07	2.01		Stock Level	4.03	0.10
10.10	2.01		Order Status	4.01	0.10
			1.02 better		
			1.02 tt more aggressive		
Key	RT	RT	Menu	Txn	Think
12.29	18.01		New Order	44.92	0.10
12.29	3.01		Payment	43.01	0.10
5.15	2.01		Delivery	4.02	0.10
5.15	2.01		Stock Level	4.03	0.10
10.25	2.01		Order Status	4.02	0.10
			1.01 best		
			1.01 tt best		
Key	RT	RT	Menu	Txn	Think
12.17	18.01		New Order	44.90	0.10
12.17	3.01		Payment	43.05	0.10
5.10	2.01		Delivery	4.01	0.10
5.10	2.01		Stock Level	4.03	0.10
10.15	2.01		Order Status	4.01	0.10
			1.02 best		
			1.02 tt best		
Key	RT	RT	Menu	Txn	Think

Time	Delay	Fence	Delay	Weight	Time
12.29	18.01		New Order	44.96	0.10
12.29	3.01		Payment	43.00	0.10
5.15	2.01		Delivery	4.00	0.10
5.15	2.01		Stock Level	4.03	0.10
10.25	2.01		Order Status	4.01	0.10
			1.03 best		
			1.03 tt best		
Key	RT	RT	Menu	Txn	Think
12.41	18.01		New Order	44.96	0.10
12.41	3.01		Payment	43.01	0.10
5.20	2.01		Delivery	4.01	0.10
5.20	2.01		Stock Level	4.01	0.10
10.35	2.01		Order Status	4.01	0.10
			5.5		
			5.5 tt		
Key	RT	RT	Menu	Txn	Think
66.28	18.01		New Order	44.83	0.10
66.28	3.01		Payment	43.05	0.10
27.77	2.01		Delivery	4.04	0.10
27.77	2.01		Stock Level	4.04	0.10
55.27	2.01		Order Status	4.04	0.10
			6.0		
			6.0 tt		
Key	RT	RT	Menu	Txn	Think
72.30	18.01		New Order	44.83	0.10
72.30	3.01		Payment	43.05	0.10
30.30	2.01		Delivery	4.04	0.10
30.30	2.01		Stock Level	4.04	0.10
60.30	2.01		Order Status	4.04	0.10
			6.5		
			6.5 tt		
Key	RT	RT	Menu	Txn	Think
79.53	18.01		New Order	44.83	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	

Internet Information Server Registry Parameters

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo
Class Name: <NO CLASS>
Last Write Time: 12/2/2003 - 3:04 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/8/2004 - 10:36 AM

Value 0
Name: ListenBackLog
Type: REG_DWORD
Data: 0x19

Value 1
Name: PoolThreadLimit
Type: REG_DWORD
Data: 0x7fe

Value 2
Name: ThreadTimeout
Type: REG_DWORD
Data: 0x15180

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Performance
Class Name: <NO CLASS>
Last Write Time: 12/2/2003 - 3:05 PM

Value 0
Name: Library
Type: REG_SZ
Data: infoctrs.dll

Value 1
Name: Open
Type: REG_SZ
Data: OpenINFOPerformanceData

Value 2
Name: Close
Type: REG_SZ
Data: CloseINFOPerformanceData

Value 3
Name: Collect
Type: REG_SZ
Data: CollectINFOPerformanceData

Value 4
Name: PerfIniFile

Type: REG_SZ
Data: infoctrs.ini

Value 5
Name: Last Counter
Type: REG_DWORD
Data: 0x9a6

Value 6
Name: Last Help
Type: REG_DWORD
Data: 0x9a7

Value 7
Name: First Counter
Type: REG_DWORD
Data: 0x966

Value 8
Name: First Help
Type: REG_DWORD
Data: 0x967

Value 9
Name: Object List
Type: REG_SZ
Data: 2406

Value 10
Name: Library Validation Code
Type: REG_BINARY
Data: 00000000 00 8b fc c3 17 b9 c3 01 - 00 20 00 00 00
00 00 00 ..ũÄ.'Ä..

Value 11
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 4c c3 d3 e7 44 ca 56 e0 - f3 e8 a0 14 52
26 fb 0f LĂÓçDÈVàòè .R&ù.

Value 12
Name: WbemAdapFileTime
Type: REG_BINARY
Data: aa 69 79 c3 17 b9 c3 01 -
*iyÄ.'Ä.

Value 13
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x2000

Value 14
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

World Wide Web Service Registry Parameters

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC
Class Name: <NO CLASS>
Last Write Time: 2/19/2004 - 10:10 AM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

Value 1
Name: Start
Type: REG_DWORD
Data: 0x2

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k iisvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: World Wide Web Publishing Service

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS
HTTPFilter
IISADMIN

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 8
Name: Description
Type: REG_SZ
Data: Provides Web connectivity and administration through the Internet Information Services Manager

Value 9
Name: FailureActions

```

Type:          REG_BINARY
Data:
00000000  80 51 01 00 00 00 00 00 - 00 00 00 00 03
00 00 00  .Q.....
00000010  14 00 00 00 01 00 00 00 - 01 00 00 00 01
00 00 00  .....
01 00 00 00 01 00 00 00 - 01 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Parameters
Class Name:    <NO CLASS>
Last Write Time: 2/19/2004 - 10:10 AM
Value 0
Name:          MajorVersion
Type:          REG_DWORD
Data:          0x6

Value 1
Name:          MinorVersion
Type:          REG_DWORD
Data:          0

Value 2
Name:          InstallPath
Type:          REG_SZ
Data:          C:\WINDOWS\system32\inetsrv

Value 3
Name:          AccessDeniedMessage
Type:          REG_SZ
Data:          Error: Access is Denied.

Value 4
Name:          ServiceDll
Type:          REG_EXPAND_SZ
Data:          C:\WINDOWS\system32\inetsrv\iisw3adm.dll

Value 5
Name:          IIS5IsolationModeIpmName
Type:          REG_SZ
Data:          \\.\pipe\iisipm65f8e6e2-c77d-49e8-
a882-40cbab70f069

Value 6
Name:          AcceptExOutstanding
Type:          REG_DWORD
Data:          0x28

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Parameters\ADCLaunch
Class Name:    <NO CLASS>
Last Write Time: 12/2/2003 - 3:04 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Parameters\ADCLaunch\AdvancedDataFactory
Class Name:    <NO CLASS>

```

```

Last Write Time: 12/2/2003 - 3:04 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Parameters\ADCLaunch\RDSServer.DataFactory
Class Name:    <NO CLASS>
Last Write Time: 12/2/2003 - 3:04 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Performance
Class Name:    <NO CLASS>
Last Write Time: 12/2/2003 - 3:05 PM
Value 0
Name:          Library
Type:          REG_SZ
Data:          C:\WINDOWS\system32\inetsrv\w3ctrs.dll

Value 1
Name:          Open
Type:          REG_SZ
Data:          OpenW3PerformanceData

Value 2
Name:          Close
Type:          REG_SZ
Data:          CloseW3PerformanceData

Value 3
Name:          Collect
Type:          REG_SZ
Data:          CollectW3PerformanceData

Value 4
Name:          PerfIniFile
Type:          REG_SZ
Data:          w3ctrs.ini

Value 5
Name:          Last Counter
Type:          REG_DWORD
Data:          0xa9e

Value 6
Name:          Last Help
Type:          REG_DWORD
Data:          0xa9f

Value 7
Name:          First Counter
Type:          REG_DWORD
Data:          0x9a8

Value 8
Name:          First Help
Type:          REG_DWORD
Data:          0x9a9

Value 9
Name:          Object List
Type:          REG_SZ
Data:          2472 2646

```

```

Value 10
Name:          Library Validation Code
Type:          REG_BINARY
Data:          00 3f c1 c8 17 b9 c3 01 - 00 5e 00 00 00
00 00 00  .?ÃÈ.:'Ã..^.....

Value 11
Name:          WbemAdapFileSignature
Type:          REG_BINARY
Data:          39 e3 6c 2c b4 be 59 f5 - 17 7c c4 d5 2f
dc f7 1a  9äl,~%Yö. |ÃÖ/Û*.

Value 12
Name:          WbemAdapFileTime
Type:          REG_BINARY
Data:          5e e2 42 c8 17 b9 c3 01 -
^âÈ.:'Ã.

Value 13
Name:          WbemAdapFileSize
Type:          REG_DWORD
Data:          0x5e00

Value 14
Name:          WbemAdapStatus
Type:          REG_DWORD
Data:          0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Security
Class Name:    <NO CLASS>
Last Write Time: 12/2/2003 - 3:04 PM
Value 0
Name:          Security
Type:          REG_BINARY
Data:          00000000  01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00  .....
00000010  30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00  0.....
00000020  ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00  ý.....
00000030  02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00  ..~.....ý...
00000040  01 01 00 00 00 00 00 05 - 12 00 00 00 00
00 18 00  .....
00000050  ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00  ý.....
00000060  20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00  .....
00000070  00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00  .....ý...
00000080  01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00  .....#...

```

```

00000090 01 01 00 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Enum
Class Name: <NO CLASS>
Last Write Time: 2/19/2004 - 10:10 AM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_W3SVC\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

TPCC Application Registry Parameters

```

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\TPCC
Class Name: <NO CLASS>
Last Write Time: 2/16/2004 - 11:13 AM
Value 0
Name: Path
Type: REG_SZ
Data: C:\Inetpub\wwwroot\

```

```

Value 1
Name: NumberOfDeliveryThreads
Type: REG_DWORD
Data: 0x14

```

```

Value 2
Name: MaxConnections
Type: REG_DWORD
Data: 0x7530

```

```

Value 3
Name: MaxPendingDeliveries
Type: REG_DWORD
Data: 0x7d0

```

```

Value 4
Name: DB_Protocol
Type: REG_SZ
Data: DBLIB

```

```

Value 5
Name: TxnMonitor
Type: REG_SZ
Data: COM

```

```

Value 6
Name: DbServer
Type: REG_SZ
Data: Firebird

```

```

Value 7
Name: DbName
Type: REG_SZ
Data: tpcc

```

```

Value 8
Name: DbUser
Type: REG_SZ
Data: sa

```

```

Value 9
Name: DbPassword
Type: REG_SZ
Data:

```

```

Value 10
Name: COM_SinglePool
Type: REG_SZ
Data: YES

```

```

Value 11
Name: <NO NAME>
Type: REG_SZ
Data:

```

Windows Registry Editor Version 5.00

```

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\TPCC]
"Path"="C:\\Inetpub\\wwwroot\\"
"NumberOfDeliveryThreads"=dword:0000000e
"MaxConnections"=dword:0000399e
"MaxPendingDeliveries"=dword:000005dc
"DB_Protocol"="DBLIB"
"TxnMonitor"="COM"
"DbServer"="armageddon"
"DbName"="tpcc"
"DbUser"="sa"
"DbPassword"=""
"COM_SinglePool"="YES"

```

Server Bus Performance Driver Registry Parameters

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpgcissb
Class Name: <NO CLASS>
Last Write Time: 2/19/2004 - 9:38 AM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: Start
Type: REG_DWORD
Data: 0

```

```

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x102

```

```

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\hpgcissb.sys

```

```

Value 5
Name: DisplayName
Type: REG_SZ
Data: Smart Array Controllers Non-
Miniport Bus Driver

```

```

Value 6
Name: Group
Type: REG_SZ
Data: port

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpgcissb\Parameters
Class Name: <NO CLASS>
Last Write Time: 2/17/2004 - 3:27 PM
Value 0
Name: CompletionMode
Type: REG_DWORD
Data: 0x2

```

```

Value 1
Name: CosTimerRate

```

```

Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqcissb\Parameters\Controller0
Class Name:    <NO CLASS>
Last Write Time: 2/11/2004 - 6:24 PM
Value 0
Name:         CompletionMode
Type:         REG_DWORD
Data:         0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqcissb\Security
Class Name:    <NO CLASS>
Last Write Time: 1/17/2004 - 2:10 AM
Value 0
Name:         Security
Type:         REG_BINARY
Data:
00000000  01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00  .....
00000010  30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00  0.....
00000020  ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00  Ÿ.....
00000030  02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00  ..Ÿ....
00000040  01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00  .....
00000050  ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00  Ÿ.....
00000060  20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00  .....
00000070  00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00  ..Ÿ....
00000080  01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00  ..#....
00000090  01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00  .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqcissb\Enum
Class Name:    <NO CLASS>
Last Write Time: 2/19/2004 - 9:38 AM
Value 0
Name:         0
Type:         REG_SZ
Data:
PCI\VEN_0E11&DEV_0046&SUBSYS_409B0E11&REV_01\4&24b9e8
52&0&3840

Value 1
Name:         Count
Type:         REG_DWORD

```

```

Data:          0x8

Value 2
Name:         NextInstance
Type:         REG_DWORD
Data:         0x8

Value 3
Name:         1
Type:         REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&24b9e8
52&0&4040

Value 4
Name:         2
Type:         REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&25f4d2
ac&0&6848

Value 5
Name:         3
Type:         REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&9630b5
6&0&7050

Value 6
Name:         4
Type:         REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&2534a5
7b&0&4858

Value 7
Name:         5
Type:         REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&2534a5
7b&0&5058

Value 8
Name:         6
Type:         REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&62ba2c
ac&0&5860

Value 9
Name:         7
Type:         REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&62ba2c
ac&0&6060

```

Server Disk Device Performance Driver Registry Parameters

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqcissd
Class Name:    <NO CLASS>
Last Write Time: 2/19/2004 - 9:38 AM
Value 0
Name:         Type
Type:         REG_DWORD
Data:         0x1

Value 1
Name:         Start
Type:         REG_DWORD
Data:         0

Value 2
Name:         ErrorControl
Type:         REG_DWORD
Data:         0x1

Value 3
Name:         Tag
Type:         REG_DWORD
Data:         0x102

Value 4
Name:         ImagePath
Type:         REG_EXPAND_SZ
Data:         system32\DRIVERS\hpqcissd.sys

Value 5
Name:         DisplayName
Type:         REG_SZ
Data:         Smart Array Controllers Non-
Miniport Disk Driver

Value 6
Name:         Group
Type:         REG_SZ
Data:         Primary Disk

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqcissd\Security
Class Name:    <NO CLASS>
Last Write Time: 1/17/2004 - 2:11 AM
Value 0
Name:         Security
Type:         REG_BINARY
Data:
00000000  01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00  .....

```

```

00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..~.....y...
00000040 01 01 00 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 y.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....y...
00000080 01 02 00 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqciisd\Enum
Class Name: <NO CLASS>
Last Write Time: 2/19/2004 - 9:38 AM
Value 0
Name: 0
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_HP&PROD_LOGICAL_VOLUME\5&156cd7e2&0&
0000014001000000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x13

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x13

Value 3
Name: 1
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&28b216e
6&0&0000004000000000

Value 4
Name: 2
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&28b216e
6&0&0100004000000000

Value 5
Name: 3
Type: REG_SZ

```

```

Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&28b216e
6&0&0200004000000000

Value 6
Name: 4
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&1f6c26&
0&0000004000000000

Value 7
Name: 5
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&1f6c26&
0&0100004000000000

Value 8
Name: 6
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&1f6c26&
0&0200004000000000

Value 9
Name: 7
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&18f8e1e
&0&0000004000000000

Value 10
Name: 8
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&18f8e1e
&0&0100004000000000

Value 11
Name: 9
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&18f8e1e
&0&0200004000000000

Value 12
Name: 10
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&208896b
c&0&0000004000000000

Value 13
Name: 11
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&208896b
c&0&0100004000000000

Value 14
Name: 12
Type: REG_SZ

```

```

Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&17b7fb4
5&0&0000004000000000

Value 15
Name: 13
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&17b7fb4
5&0&0100004000000000

Value 16
Name: 14
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&4a1e610
&0&0000004000000000

Value 17
Name: 15
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&4a1e610
&0&0100004000000000

Value 18
Name: 16
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&4a1e610
&0&0200004000000000

Value 19
Name: 17
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&d728187
&0&0000004000000000

Value 20
Name: 18
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&d728187
&0&0100004000000000

```

System Summary

System Information report written at: 04/23/04
08:42:16
System Name: FIREBIRD
[System Summary]

Item	Value
OS Name	Microsoft(R) Windows(R) Server 2003, Enterprise Edition
Version	5.2.3790 Service Pack 1, v.1173 Build 3790


```

OS Manufacturer      Microsoft Corporation
Activation Status    Activation Pending (12 days
remaining)
System Name          FIREBIRD
System Manufacturer  HP
System Model         ProLiant DL585 G1
System Type          X86-based PC
Processor x86 Family 15 Model 5 Stepping 10
AuthenticAMD ~2399 Mhz
Processor x86 Family 15 Model 5 Stepping 10
AuthenticAMD ~2399 Mhz
Processor x86 Family 15 Model 5 Stepping 10
AuthenticAMD ~2399 Mhz
Processor x86 Family 15 Model 5 Stepping 10
AuthenticAMD ~2399 Mhz
BIOS Version/Date   HP A01, 3/31/2004
SMBIOS Version      2.3
Windows Directory   C:\WINDOWS
System Directory    C:\WINDOWS\system32
Boot Device          \Device\HarddiskVolume20
Locale               United States
Hardware Abstraction Layer Version =
"5.2.3790.1173 (dmsrv.040318-1805)"
User Name Not Available
Time Zone Central Daylight Time
Total Physical Memory 65,536.00 MB
Available Physical Memory 293.23 MB
Total Virtual Memory 65.95 GB
Available Virtual Memory 2.96 GB
Page File Space      2.11 GB
Page File C:\pagefile.sys

[Hardware Resources]

[Conflicts/Sharing]

Resource Device
I/O Port 0x0000A000-0x0000AFFF PCI standard
PCI-to-PCI bridge
I/O Port 0x0000A000-0x0000AFFF Smart Array
5300 Controller (Non-Miniport)

Memory Address 0xF7800000-0xF7BFFFFFF PCI standard
PCI-to-PCI bridge
Memory Address 0xF7800000-0xF7BFFFFFF Smart Array
5300 Controller (Non-Miniport)

I/O Port 0x00000000-0x000003AF PCI bus
I/O Port 0x00000000-0x000003AF Direct memory
access controller

Memory Address 0xF7C00000-0xF7FFFFFF PCI standard
PCI-to-PCI bridge
Memory Address 0xF7C00000-0xF7FFFFFF Smart Array
5300 Controller (Non-Miniport)

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)

```

```

I/O Port 0x00009000-0x00009FFF PCI standard
PCI-to-PCI bridge
I/O Port 0x00009000-0x00009FFF Smart Array
5300 Controller (Non-Miniport)

I/O Port 0x00006000-0x00006FFF PCI standard
PCI-to-PCI bridge
I/O Port 0x00006000-0x00006FFF Smart Array
642 Controller (Non-Miniport)

Memory Address 0xF7400000-0xF7FFFFFF PCI bus
Memory Address 0xF7400000-0xF7FFFFFF PCI standard
PCI-to-PCI bridge
Memory Address 0xF7400000-0xF7FFFFFF Smart Array
5300 Controller (Non-Miniport)

I/O Port 0x00005000-0x00005FFF PCI standard
PCI-to-PCI bridge
I/O Port 0x00005000-0x00005FFF Compaq Smart
Array 5i Controller

I/O Port 0x000000A0-0x000000A1 Motherboard
resources
I/O Port 0x000000A0-0x000000A1 Programmable
interrupt controller

IRQ 19 Standard OpenHCD USB Host Controller
IRQ 19 Standard OpenHCD USB Host Controller

Memory Address 0xA0000-0xBFFFF PCI bus
Memory Address 0xA0000-0xBFFFF PCI standard
PCI-to-PCI bridge
Memory Address 0xA0000-0xBFFFF RAGE XL PCI
Family (Microsoft Corporation)

Memory Address 0xF7600000-0xF77FFFFFF PCI standard
PCI-to-PCI bridge
Memory Address 0xF7600000-0xF77FFFFFF Smart Array
5300 Controller (Non-Miniport)

I/O Port 0x00007000-0x0000AFFF PCI bus
I/O Port 0x00007000-0x0000AFFF PCI standard
PCI-to-PCI bridge
I/O Port 0x00007000-0x0000AFFF Smart Array
5300 Controller (Non-Miniport)

Memory Address 0xF7200000-0xF73FFFFFF PCI standard
PCI-to-PCI bridge
Memory Address 0xF7200000-0xF73FFFFFF Smart Array
5300 Controller (Non-Miniport)

Memory Address 0xF5F00000-0xF73FFFFFF PCI bus
Memory Address 0xF5F00000-0xF73FFFFFF PCI standard
PCI-to-PCI bridge

Memory Address 0xF5E00000-0xF5EFFFFFF PCI bus
Memory Address 0xF5E00000-0xF5EFFFFFF 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 0x00008000-0x00008FFF PCI standard
PCI-to-PCI bridge
I/O Port 0x00008000-0x00008FFF Smart Array
5300 Controller (Non-Miniport)
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
0x00001000-0x00006FFF PCI bus OK
0x00004000-0x00004FFF PCI standard PCI-to-PCI
bridge OK
0x00004000-0x00004FFF Base System Device OK
0x00004800-0x000048FF Base System Device OK
0x00004400-0x000044FF RAGE XL PCI Family
(Microsoft Corporation) OK
0x00000A79-0x00000A79 ISAPNP Read Data Port
OK
0x00000279-0x00000279 ISAPNP Read Data Port
OK
0x00000274-0x00000277 ISAPNP Read Data Port
OK

```

0x00000020-0x00000021 OK	Motherboard resources	0x000003F7-0x000003F7 controller OK	Standard floppy disk	IRQ 24	HP NC7782 Gigabit Server Adapter #2	OK		
0x00000020-0x00000021 controller OK	Programmable interrupt	0x00002000-0x0000200F IDE Controller OK	AMD-8111 PCI Bus Master	IRQ 28	Smart Array 642 Controller (Non-Miniport)	OK		
0x00000050-0x00000051 OK	Motherboard resources	0x000001F0-0x000001F7	Primary IDE Channel OK	IRQ 30	Smart Array 5300 Controller (Non-Miniport)	OK		
0x00000092-0x00000092 OK	Motherboard resources	0x000003F6-0x000003F6	Primary IDE Channel OK	IRQ 32	Smart Array 5300 Controller (Non-Miniport)	OK		
0x000000A0-0x000000A1 OK	Motherboard resources	0x00005000-0x00005FFF bridge OK	PCI standard PCI-to-PCI	IRQ 36	Smart Array 5300 Controller (Non-Miniport)	OK		
0x000000A0-0x000000A1 controller OK	Programmable interrupt	0x00005000-0x00005FFF Controller OK	Compaq Smart Array 5i	IRQ 40	Smart Array 5300 Controller (Non-Miniport)	OK		
0x000000F0-0x000000F1 OK	Motherboard resources	0x00006000-0x00006FFF bridge OK	PCI standard PCI-to-PCI	IRQ 42	Smart Array 5300 Controller (Non-Miniport)	OK		
0x00000230-0x00000233 OK	Motherboard resources	0x00006000-0x00006FFF Controller (Non-Miniport)	Smart Array 642	IRQ 44	Smart Array 5300 Controller (Non-Miniport)	OK		
0x00000260-0x00000267 OK	Motherboard resources	0x00006400-0x000064FF Controller (Non-Miniport)	Smart Array 5300	IRQ 46	Smart Array 5300 Controller (Non-Miniport)	OK		
0x000004D0-0x000004D1 OK	Motherboard resources	0x00007000-0x0000AFFF 0x00007000-0x0000AFFF bridge OK	PCI bus OK PCI standard PCI-to-PCI		[Memory]			
0x00000800-0x0000081F OK	Motherboard resources	0x00007000-0x0000AFFF Controller (Non-Miniport)	Smart Array 5300	Resource	Device	Status		
0x00000900-0x00000903 OK	Motherboard resources	0x00008000-0x00008FFF bridge OK	PCI standard PCI-to-PCI	0xA0000-0xBFFFF	PCI bus	OK		
0x00000904-0x00000907 OK	Motherboard resources	0x00008000-0x00008FFF Controller (Non-Miniport)	Smart Array 5300	0xA0000-0xBFFFF	PCI standard PCI-to-PCI bridge	OK		
0x00000908-0x0000090B OK	Motherboard resources	0x00009000-0x00009FFF bridge OK	PCI standard PCI-to-PCI	0xA0000-0xBFFFF	RAGE XL PCI Family (Microsoft Corporation)	OK		
0x0000090C-0x0000092E OK	Motherboard resources	0x00009000-0x00009FFF Controller (Non-Miniport)	Smart Array 5300	0xF5E00000-0xF5EFFFFF	PCI bus	OK		
0x0000092F-0x0000092F OK	Motherboard resources	0x00009400-0x000094FF Controller (Non-Miniport)	Smart Array 5300	0xF5E00000-0xF5EFFFFF	PCI standard PCI-to-PCI	OK		
0x00000930-0x000009FF OK	Motherboard resources	0x0000A000-0x0000AFFF bridge OK	PCI standard PCI-to-PCI	0xF5F00000-0xF73FFFFF	PCI bus	OK		
0x00000C80-0x00000C87 OK	Motherboard resources	0x0000A000-0x0000AFFF Controller (Non-Miniport)	Smart Array 5300	0xF5F00000-0xF73FFFFF	PCI standard PCI-to-PCI	OK		
0x00000CF9-0x00000CF9 OK	Motherboard resources	0x0000A400-0x0000A4FF Controller (Non-Miniport)	Smart Array 5300	0xF70F0000-0xF70F0FFF	Standard OpenHCD USB	Host Controller OK		
0x00000040-0x00000043	System timer	OK	OK	0xF70E0000-0xF70E0FFF	Standard OpenHCD USB	Host Controller OK		
0x00000080-0x0000008F controller OK	Direct memory access			0xF70B0000-0xF70B01FF	Base System Device	OK		
0x000000C0-0x000000DF controller OK	Direct memory access	[IRQs]		0xF70A0000-0xF70A07FF	Base System Device	OK		
0x00000061-0x00000061	System speaker	Resource Device Status		0xF7090000-0xF7091FFF	Base System Device	OK		
0x00000060-0x00000060 Microsoft Natural PS/2 Keyboard	Standard 101/102-Key or	IRQ 11	Microsoft ACPI-Compliant System	OK	0xF7000000-0xF707FFFF	Base System Device	OK	
0x00000064-0x00000064 Microsoft Natural PS/2 Keyboard	Standard 101/102-Key or	IRQ 19	Standard OpenHCD USB Host Controller	OK	0xF6000000-0xF6FFFFFF	RAGE XL PCI Family	OK	
0x0000002E-0x0000002F	Extended IO Bus	IRQ 19	Standard OpenHCD USB Host Controller	OK	0xF5F00000-0xF5FF0FFF	RAGE XL PCI Family	OK	
0x00000220-0x00000223	Extended IO Bus	IRQ 7	Base System Device	OK	0xF5F00000-0xF5FF0FFF	(Microsoft Corporation)	OK	
0x00000240-0x0000025F	Extended IO Bus	IRQ 10	Base System Device	OK	0xF7100000-0xF71FFFFF	PCI standard PCI-to-PCI	OK	
0x00000070-0x00000073	Extended IO Bus	IRQ 0	System timer	OK	0xF7100000-0xF71FFFFF	bridge OK		
0x000003F8-0x000003FF (COM1) OK	Communications Port	IRQ 1	Standard 101/102-Key or Microsoft Natural PS/2 Keyboard	OK	0xF71C0000-0xF71FFFFF	Controller	OK	
0x000003F2-0x000003F5 controller OK	Standard floppy disk	IRQ 12	PS/2 Compatible Mouse	OK	0xF5E00000-0xF5E3FFF	Controller	OK	
		IRQ 4	Communications Port (COM1)	OK	0xF71B0000-0xF71BFFFF	Server Adapter	OK	
		IRQ 6	Standard floppy disk controller	OK	0xF71A0000-0xF71AFFFF	Server Adapter #2	OK	
		IRQ 14	Primary IDE Channel	OK	0xF7200000-0xF73FFFFF	bridge OK		
		IRQ 18	Compaq Smart Array 5i Controller	OK	0xF7200000-0xF73FFFFF	Smart Array 5300	Controller (Non-Miniport)	OK
		IRQ 25	HP NC7782 Gigabit Server Adapter	OK				

```

0xF73F0000-0xF73F1FFF Smart Array 642
Controller (Non-Miniport) OK
0xF7380000-0xF73BFFFF Smart Array 642
Controller (Non-Miniport) OK
0xF7340000-0xF737FFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7400000-0xF77FFFFF PCI bus OK
0xF7400000-0xF77FFFFF PCI standard PCI-to-PCI
bridge OK
0xF7400000-0xF77FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF75C0000-0xF75FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7600000-0xF77FFFFF PCI standard PCI-to-PCI
bridge OK
0xF7600000-0xF77FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF77C0000-0xF77FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7800000-0xF7BFFFFF PCI standard PCI-to-PCI
bridge OK
0xF7800000-0xF7BFFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7BC0000-0xF7BFFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7A00000-0xF7AFFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF79C0000-0xF79FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7C00000-0xF7FFFFF PCI standard PCI-to-PCI
bridge OK
0xF7C00000-0xF7FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7FC0000-0xF7FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7E00000-0xF7EFFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7DC0000-0xF7DFFFFF Smart Array 5300
Controller (Non-Miniport) OK

```

[Components]

[Multimedia]

[Audio Codecs]

CODEC	Manufacturer	Description
Status	File	Version
Creation Date	Size	
c:\windows\system32\sl_anet.acm	Sipro Lab	Sipro Lab
Telecom Inc.	Sipro Lab Telecom Audio Codec OK	
C:\WINDOWS\system32\SLANET.ACM		3.02
		84.00 KB (86,016 bytes)
		3/22/2004 6:00 AM
c:\windows\system32\msaud32.acm	Microsoft	Windows Media Audio Codec OK
Corporation		
	C:\WINDOWS\system32\MSAUD32.ACM	8.00.00.4487
		288.00 KB (294,912 bytes)
		3/22/2004 6:00 AM

```

c:\windows\system32\msg723.acm Microsoft Corporation OK
C:\WINDOWS\system32\MSG723.ACM 5.2.3790.1173 116.00 KB (118,784 bytes) 3/5/2004 9:23 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) 3/22/2004 6:00 AM
c:\windows\system32\tssoft32.acm DSP GROUP, INC. OK
C:\WINDOWS\system32\TSSOFT32.ACM 1.01 9.50 KB (9,728 bytes) 3/22/2004 6:00 AM
c:\windows\system32\msg711.acm Microsoft Corporation OK
C:\WINDOWS\system32\MSG711.ACM 5.2.3790.0 (srv03_rtm.030324-2048) 10.00 KB (10,240 bytes) 3/22/2004 6:00 AM
c:\windows\system32\msgsm32.acm Microsoft Corporation OK
C:\WINDOWS\system32\MSGSM32.ACM 5.2.3790.0 (srv03_rtm.030324-2048) 20.50 KB (20,992 bytes) 3/22/2004 6:00 AM
c:\windows\system32\l3codeca.acm Fraunhofer Institut Integrierte Schaltungen IIS OK
IIS MPEG Layer-3 Codec OK
C:\WINDOWS\system32\L3CODECA.ACM 1, 9, 0, 0305 284.00 KB (290,816 bytes) 3/22/2004 6:00 AM
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) 3/22/2004 6:00 AM

```

[Video Codecs]

CODEC	Manufacturer	Description
Status	File	Version
Creation Date	Size	
c:\windows\system32\msh261.drv	Microsoft	Microsoft Corporation OK
	C:\WINDOWS\system32\MSH261.DRV	5.2.3790.1173
		180.00 KB (184,320 bytes)
		3/5/2004 9:23 AM
c:\windows\system32\tsbyuv.dll	Microsoft	Microsoft Corporation OK
	C:\WINDOWS\system32\TSBYUV.DLL	5.2.3790.0 (srv03_rtm.030324-2048)
		8.00 KB (8,192 bytes)
		3/24/2003 7:50 PM
c:\windows\system32\msyuv.dll	Microsoft	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) 3/22/2004 6:00 AM
c:\windows\system32\mrle32.dll Microsoft Corporation OK
C:\WINDOWS\system32\MSRLE32.DLL 5.2.3790.0 (srv03_rtm.030324-2048) 10.50 KB (10,752 bytes) 3/22/2004 6:00 AM
c:\windows\system32\iyuv_32.dll Microsoft Corporation OK
C:\WINDOWS\system32\IYUV_32.DLL 5.2.3790.0 (srv03_rtm.030324-2048) 45.00 KB (46,080 bytes) 3/24/2003 7:49 PM
c:\windows\system32\msh263.drv Microsoft Corporation OK
C:\WINDOWS\system32\MSH263.DRV 5.2.3790.1173 288.00 KB (294,912 bytes) 3/18/2004 4:48 PM

```

[CD-ROM]

Item	Value
Drive	D:
Description	CD-ROM Drive
Media Loaded	No
Media Type	CD-ROM
Name	TEAC CD-224E
Manufacturer	(Standard CD-ROM drives)
Status	OK
Transfer Rate	Not Available
SCSI Target ID	0
PNP Device ID	IDE\CDROMTEAC_CD-224E
	9.9A\5&2DC47F1C&0&0.0.0
Driver	c:\windows\system32\drivers\cdrom.sys (5.2.3790.1173 (dnrsv.040318-1805), 49.50 KB (50,688 bytes), 3/22/2004 6:00 AM)

[Sound Device]

Item	Value
Name	RAGE XL PCI Family (Microsoft Corporation)
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 800 x 600 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), 1/4/2004
 12:15 AM)

[Infrared]

Item Value

[Input]

[Keyboard]

Item Value
 Description Standard 101/102-Key or Microsoft
 Natural PS/2 Keyboard
 Name Enhanced (101- or 102-key)
 Layout 00000409
 PNP Device ID ACPI\PNP0303\4&1C7DEDE8&0
 Number of Function Keys 12
 I/O Port 0x00000060-0x0000006F
 I/O Port 0x00000064-0x00000064
 IRQ Channel IRQ 1
 Driver c:\windows\system32\drivers\i8042prt.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 68.50 KB (70,144
 bytes), 3/22/2004 6:00 AM)

[Pointing Device]

Item Value
 Hardware Type PS/2 Compatible Mouse
 Number of Buttons 3
 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
 (5.2.3790.0 (srv03_rtm.030324-2048), 68.50 KB (70,144
 bytes), 3/22/2004 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 4/22/2004 10:05 AM
 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 4/22/2004 10:05 AM
 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
 (5.2.3790.1173 (dnssrv.040318-1805), 73.00 KB (74,752
 bytes), 3/22/2004 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 4/22/2004 10:05 AM
 Index 3
 Service Name PptpMiniport
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled No
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 50:50:54:50:30:30
 Driver c:\windows\system32\drivers\raspptp.sys
 (5.2.3790.1173 (dnssrv.040318-1805), 62.50 KB (64,000
 bytes), 3/22/2004 6:00 AM)

Name [00000004] WAN Miniport (PPPOE)
 Adapter Type Wide Area Network (WAN)
 Product Type WAN Miniport (PPPOE)
 Installed Yes
 PNP Device ID ROOT\MS_PPPOEMINIPORT\0000

Last Reset 4/22/2004 10:05 AM
 Index 4
 Service Name Raspppoe
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled No
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 33:50:6F:45:30:30
 Driver c:\windows\system32\drivers\raspppoe.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 38.00 KB (38,912
 bytes), 3/22/2004 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 4/22/2004 10:05 AM
 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
 (5.2.3790.0 (srv03_rtm.030324-2048), 18.50 KB (18,944
 bytes), 3/22/2004 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 4/22/2004 10:05 AM
 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
 (5.2.3790.1173 (dnssrv.040318-1805), 100.00 KB
 (102,400 bytes), 3/22/2004 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&82820FC&0&3038
 Last Reset 4/22/2004 10:05 AM
 Index 7
 Service Name q57w2k
 IP Address 130.169.208.1
 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 00:0B:CD:C4:C7:A0
 Memory Address 0xF71B0000-0xF71BFFFF
 IRQ Channel IRQ 25
 Driver c:\windows\system32\drivers\q57xp32.sys
 (7.35.0.0 built by: WinDDK, 110.50 KB (113,152
 bytes), 1/15/2004 9:30 PM)

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&82820FC&0&3138
 Last Reset 4/22/2004 10:05 AM
 Index 8
 Service Name q57w2k
 IP Address 130.168.208.12
 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 00:0B:CD:C4:C7:A1
 Memory Address 0xF71A0000-0xF71AFFFF
 IRQ Channel IRQ 24
 Driver c:\windows\system32\drivers\q57xp32.sys
 (7.35.0.0 built by: WinDDK, 110.50 KB (113,152
 bytes), 1/15/2004 9:30 PM)

[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_{3F271861-8B93-40FA-8195-
 EF4E7FCBA266}] SEQUENCE 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_{3F271861-8B93-40FA-8195-
 EF4E7FCBA266}] 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_{9F4A45D9-BC39-4B8B-AB69-
 5DB021F3A72A}] SEQUENCE 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_{9F4A45D9-BC39-4B8B-AB69-
 5DB021F3A72A}] 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 MSAPD NetBIOS
 {\Device\NetBT_Tcpip_{C9AAEDDF-6B65-4D92-A4D6-D9F8D6EAA4E8}} 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 MSAPD NetBIOS
 {\Device\NetBT_Tcpip_{C9AAEDDF-6B65-4D92-A4D6-D9F8D6EAA4E8}} 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 MSAPD NetBIOS
 {\Device\NetBT_Tcpip_{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}} 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 MSAPD NetBIOS
 {\Device\NetBT_Tcpip_{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}} 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 0
 Maximum Output Buffer Size No
 Settable Baud Rate Yes

Settable Data Bits Yes
 Settable Flow Control Yes
 Settable Parity Yes
 Settable Parity Check Yes
 Settable Stop Bits Yes
 Settable RLSD Yes
 Supports RLSD Yes
 Supports 16 Bit Mode No
 Supports Special Characters No
 Baud Rate 9600
 Bits/Byte 8
 Stop Bits 1
 Parity None
 Busy No
 Abort Read/Write on Error No
 Binary Mode Enabled Yes
 Continue XMit on XOff No
 CTS Outflow Control No
 Discard NULL Bytes No
 DSR Outflow Control 0
 DSR Sensitivity 0
 DTR Flow Control Type Enable
 EOF Character 0
 Error Replace Character 0
 Error Replacement Enabled No
 Event Character 0
 Parity Check Enabled No
 RTS Flow Control Type Enable
 XOff Character 19
 XOffXmit Threshold 512
 XOn Character 17
 XOnXmit Threshold 2048
 XOnXoff InFlow Control 0
 XOnXoff OutFlow Control 0
 IRQ Channel IRQ 4
 I/O Port 0x000003F8-0x000003FF
 Driver c:\windows\system32\drivers\serial.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 76.00 KB (77,824 bytes), 3/22/2004 6:00 AM)

[Parallel]

Item Value

[Storage]

[Drives]

Item Value
 Drive A:
 Description 3 1/2 Inch Floppy Drive
 Drive C:
 Description Local Fixed Disk
 Compressed No
 File System NTFS
 Size 33.91 GB (36,410,552,320 bytes)
 Free Space 27.50 GB (29,531,607,040 bytes)
 Volume Name
 Volume Serial Number A8BBB354

```

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 W:
Description      Local Fixed Disk
Compressed       No
File System      NTFS
Size            884.26 GB (949,468,712,960 bytes)
Free Space       523.63 GB (562,247,852,032 bytes)

Volume Name      Back3
Volume Serial Number  84CB3D56

Drive X:
Description      Local Fixed Disk
Compressed       No
File System      NTFS
Size            884.26 GB (949,468,712,960 bytes)
Free Space       218.76 GB (234,892,279,808 bytes)

Volume Name      Back1
Volume Serial Number  84EB18EC

Drive Y:
Description      Local Fixed Disk
Compressed       No
File System      NTFS
Size            884.26 GB (949,468,712,960 bytes)
Free Space       218.77 GB (234,900,799,488 bytes)

Volume Name      Back2
Volume Serial Number  A8F662AF

Drive Z:
Description      Local Fixed Disk
Compressed       No
File System      NTFS
Size            884.26 GB (949,468,712,960 bytes)
Free Space       522.29 GB (560,809,230,336 bytes)

Volume Name      Back4
Volume Serial Number  20D58331

[Disks]

Item      Value
Description  \\.\PHYSICALDRIVE12
Manufacturer Not Available
Model       Not Available
Bytes/Sector  512
Media Loaded Yes
Media Type   Fixed hard disk
Partitions  1

```

SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #12, Partition #0
 Partition Size 90.81 GB (97,510,662,144 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE13
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 40.03 GB (42,985,313,280 bytes)
 Total Cylinders 5,226
 Total Sectors 83,955,690
 Total Tracks 1,332,630
 Tracks/Cylinder 255
 Partition Disk #13, Partition #0
 Partition Size 40.03 GB (42,985,281,024 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE7
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #7, Partition #0
 Partition Size 90.81 GB (97,510,662,144 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE8
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512

Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 40.03 GB (42,985,313,280 bytes)
 Total Cylinders 5,226
 Total Sectors 83,955,690
 Total Tracks 1,332,630
 Tracks/Cylinder 255
 Partition Disk #8, Partition #0
 Partition Size 40.03 GB (42,985,281,024 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE9
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 884.26 GB (949,468,746,240 bytes)
 Total Cylinders 115,433
 Total Sectors 1,854,431,145
 Total Tracks 29,435,415
 Tracks/Cylinder 255
 Partition Disk #9, Partition #0
 Partition Size 884.26 GB (949,468,713,984 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE4
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #4, Partition #0
 Partition Size 90.81 GB (97,510,662,144 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE5

Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 40.03 GB (42,985,313,280 bytes)
 Total Cylinders 5,226
 Total Sectors 83,955,690
 Total Tracks 1,332,630
 Tracks/Cylinder 255
 Partition Disk #5, Partition #0
 Partition Size 40.03 GB (42,985,281,024 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE6
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 884.26 GB (949,468,746,240 bytes)
 Total Cylinders 115,433
 Total Sectors 1,854,431,145
 Total Tracks 29,435,415
 Tracks/Cylinder 255
 Partition Disk #6, Partition #0
 Partition Size 884.26 GB (949,468,713,984 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE10
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #10, Partition #0
 Partition Size 90.81 GB (97,510,662,144 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE11
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 40.03 GB (42,985,313,280 bytes)
 Total Cylinders 5,226
 Total Sectors 83,955,690
 Total Tracks 1,332,630
 Tracks/Cylinder 255
 Partition Disk #11, Partition #0
 Partition Size 40.03 GB (42,985,281,024 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE1
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #1, Partition #0
 Partition Size 90.81 GB (97,510,662,144 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE2
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 40.03 GB (42,985,313,280 bytes)
 Total Cylinders 5,226
 Total Sectors 83,955,690
 Total Tracks 1,332,630
 Tracks/Cylinder 255

Partition Disk #2, Partition #0
 Partition Size 40.03 GB (42,985,281,024 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE3
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 884.26 GB (949,468,746,240 bytes)
 Total Cylinders 115,433
 Total Sectors 1,854,431,145
 Total Tracks 29,435,415
 Tracks/Cylinder 255
 Partition Disk #3, Partition #0
 Partition Size 884.26 GB (949,468,713,984 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE14
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #14, Partition #0
 Partition Size 90.81 GB (97,510,662,144 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE15
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 40.03 GB (42,985,313,280 bytes)
 Total Cylinders 5,226

Total Sectors 83,955,690
 Total Tracks 1,332,630
 Tracks/Cylinder 255
 Partition Disk #15, Partition #0
 Partition Size 40.03 GB (42,985,281,024 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE16
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 884.26 GB (949,468,746,240 bytes)
 Total Cylinders 115,433
 Total Sectors 1,854,431,145
 Total Tracks 29,435,415
 Tracks/Cylinder 255
 Partition Disk #16, Partition #0
 Partition Size 884.26 GB (949,468,713,984 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE17
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #17, Partition #0
 Partition Size 90.81 GB (97,510,662,144 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE18
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available

Sectors/Track 63
Size 40.03 GB (42,985,313,280 bytes)
Total Cylinders 5,226
Total Sectors 83,955,690
Total Tracks 1,332,630
Tracks/Cylinder 255
Partition Disk #18, Partition #0
Partition Size 40.03 GB (42,985,281,024 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE0
Manufacturer Not Available
Model Not Available
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus Not Available
SCSI Logical Unit Not Available
SCSI Port Not Available
SCSI Target ID Not Available
Sectors/Track 63
Size 339.18 GB (364,190,722,560 bytes)
Total Cylinders 44,277
Total Sectors 711,310,005
Total Tracks 11,290,635
Tracks/Cylinder 255
Partition Disk #0, Partition #0
Partition Size 339.17 GB (364,182,465,024 bytes)

Partition Starting Offset 32,256 bytes

Description Disk drive
Manufacturer (Standard disk drives)
Model Disk drive
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 1
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 #19, Partition #0
Partition Size 33.91 GB (36,410,556,416 bytes)

Partition Starting Offset 16,384 bytes

[SCSI]

Item	Value
Name	Compaq Smart Array 5i Controller
Manufacturer	Compaq
Status	OK

PNP Device ID
PCI\VEN_0E11&DEV_B178&SUBSYS_40800E11&REV_0
1\4&82820FC0&2038
Memory Address 0xF71C0000-0xF71FFFFF
I/O Port 0x00005000-0x00005FFF
Memory Address 0xF5EF0000-0xF5EF3FFF
IRQ Channel IRQ 18
Driver c:\windows\system32\drivers\cpqcciss.sys
(5.6.2.32 Build 3 (NT.040127-1043), 16.00 KB (16,384 bytes), 3/22/2004 6:00 AM)

Name Smart Array 642 Controller (Non-Miniport)

Manufacturer Hewlett-Packard
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_0046&SUBSYS_409B0E11&REV_0
1\4&24B9E852&0&3840
Memory Address 0xF73F0000-0xF73F1FFF
I/O Port 0x00006000-0x00006FFF
Memory Address 0xF7380000-0xF73BFFFF
IRQ Channel IRQ 28
Driver c:\windows\system32\drivers\hpqcciss.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)

Manufacturer Hewlett-Packard
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&24B9E852&0&4040
Memory Address 0xF7340000-0xF737FFFF
Memory Address 0xF7200000-0xF73BFFFF
I/O Port 0x00006400-0x000064FF
IRQ Channel IRQ 30
Driver c:\windows\system32\drivers\hpqcciss.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)

Manufacturer Hewlett-Packard
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&25F4D2AC&0&6848
Memory Address 0xF75C0000-0xF75FFFFF
Memory Address 0xF7400000-0xF7FFFFF
I/O Port 0x00007000-0x0000AFFF
IRQ Channel IRQ 32
Driver c:\windows\system32\drivers\hpqcciss.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)

Manufacturer Hewlett-Packard
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&9630B56&0&7050

Memory Address 0xF77C0000-0xF77FFFFF
Memory Address 0xF7600000-0xF77FFFFF
I/O Port 0x00008000-0x00008FFF
IRQ Channel IRQ 36
Driver c:\windows\system32\drivers\hpqcciss.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)

Manufacturer Hewlett-Packard
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&2534A57B&0&4858
Memory Address 0xF7BC0000-0xF7BFFFFF
Memory Address 0xF7A00000-0xF7AFFFFF
I/O Port 0x00009000-0x00009FFF
IRQ Channel IRQ 40
Driver c:\windows\system32\drivers\hpqcciss.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)

Manufacturer Hewlett-Packard
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&2534A57B&0&5058
Memory Address 0xF79C0000-0xF79FFFFF
Memory Address 0xF7800000-0xF7BFFFFF
I/O Port 0x00009400-0x000094FF
IRQ Channel IRQ 42
Driver c:\windows\system32\drivers\hpqcciss.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)

Manufacturer Hewlett-Packard
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&62BA2CA&0&5860
Memory Address 0xF7FC0000-0xF7FFFFF
Memory Address 0xF7E00000-0xF7EFFFFF
I/O Port 0x0000A000-0x0000AFFF
IRQ Channel IRQ 44
Driver c:\windows\system32\drivers\hpqcciss.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)

Manufacturer Hewlett-Packard
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&62BA2CA&0&6060
Memory Address 0xF7DC0000-0xF7DFFFFF
Memory Address 0xF7C00000-0xF7FFFFF
I/O Port 0x0000A400-0x0000A4FF

```

IRQ Channel      IRQ 46
Driver c:\windows\system32\drivers\hpgcissb.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes),
1/15/2004 8:57 PM)

[IDE]

Item      Value
Name      AMD-8111 PCI Bus Master IDE Controller
Manufacturer      Advanced Micro Devices
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\amdide.sys
(5.2.3790.1173 (dnsrv.040318-1805), 7.50 KB (7,680
bytes), 3/22/2004 6:00 AM)

Name      Primary IDE Channel
Manufacturer      (Standard IDE ATA/ATAPI
controllers)
Status      OK
PNP Device ID      PCI\IDE\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
(5.2.3790.1173 (dnsrv.040318-1805), 89.50 KB (91,648
bytes), 3/22/2004 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
USB Root Hub      USB\ROOT_HUB\5&9B4CD91&0
Standard OpenHCD USB Host Controller
PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0118
USB Root Hub      USB\ROOT_HUB\5&194CD4CC&0

[Software Environment]

```

```

[System Drivers]

Name      Description      File      Type
Started      Start Mode      State
Status      Error Control      Accept Pause

abiosdsk  Abiosdsk      Not Available      Kernel Driver
No      Disabled      Stopped      OK
Ignore      No      No

acpi      Microsoft ACPI Driver
c:\windows\system32\drivers\acpi.sys
Kernel Driver      Yes      Boot
Running      OK      Normal      No      Yes

acpiec    ACPIEC
c:\windows\system32\drivers\acpiec.sys
Kernel Driver      No      Disabled
Stopped      OK      Normal      No      No

adpu160m  adpu160m      Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

adpu320   adpu320       Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

afcnt     afcnt         Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

afd       AFD Networking Support Environment
c:\windows\system32\drivers\afd.sys
Kernel Driver      Yes      Auto
Running      OK      Normal      No      Yes

ahal54x   Ahal54x       Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

aic78u2   aic78u2       Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

aic78xx   aic78xx       Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

aliide    AliIde        Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

amddiag   AMD Diagnostic I/O Driver
c:\windows\system32\drivers\amddiag.sys
Kernel Driver      No      System
Stopped      OK      Normal      No      No

amdide    AmdIde        c:\windows\system32\drivers\amdide.sys
Kernel Driver      Yes      Boot
Running      OK      Normal      No      Yes

asynccmac RAS Asynchronous Media Driver
c:\windows\system32\drivers\asynccmac.sys
Kernel Driver      No      Manual
Stopped      OK      Normal      No      No

atapi     Standard IDE/ESDI Hard Disk Controller
c:\windows\system32\drivers\atapi.sys

```

```

Kernel Driver      Yes      Boot
Running      OK      Normal      No      Yes

atdisk    Atdisk        Not Available      Kernel Driver
No      Disabled      Stopped      OK
Ignore      No      No

ati2mpad  ati2mpad      c:\windows\system32\drivers\ati2mpad.sys
Kernel Driver      Yes      Manual
Running      OK      Ignore      No      Yes

atmarpc   ATM ARP Client Protocol
c:\windows\system32\drivers\atmarpc.sys
Kernel Driver      No      Manual
Stopped      OK      Normal      No      No

audstub   Audio Stub Driver
c:\windows\system32\drivers\audstub.sys
Kernel Driver      Yes      Manual
Running      OK      Normal      No      Yes

beep      Beep
c:\windows\system32\drivers\beep.sys
Kernel Driver      Yes      System
Running      OK      Normal      No      Yes

bus_use   bus_use.sys
\??\c:\windows\system32\drivers\bus_use.sys
Kernel Driver      No      Manual
Stopped      OK      Normal      No      No

cbidf2k   cbidf2k       c:\windows\system32\drivers\cbidf2k.sys
Kernel Driver      No      Disabled
Stopped      OK      Normal      No      No

cd20xrnt  cd20xrnt      Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

cdfs      CdFs          c:\windows\system32\drivers\cdfs.sys
File System Driver      Yes      Disabled
Running      OK      Normal      No      Yes

cdrom     CD-ROM Driver
c:\windows\system32\drivers\cdrom.sys
Kernel Driver      Yes      System
Running      OK      Normal      No      Yes

changer   Changer        Not Available      Kernel Driver
No      System      Stopped      OK
Ignore      No      No

clusdisk  Cluster Disk Driver
c:\windows\system32\drivers\clusdisk.sys
Kernel Driver      No      Disabled
Stopped      OK      Normal      No      No

cmdide    CmdIde        Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

cpqarray  Cpqarray      Not Available      Kernel Driver
No      Disabled      Stopped      OK
Normal      No      No

```

cpqgarry2	cpqgarry2	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
cpqgcissm	cpqgcissm	No	No		
	c:\windows\system32\drivers\cpqgcissm.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
cpqfcalm	cpqfcalm	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
cpuspy	CpuSpy Driver				
	\\??\c:\windows\system32\drivers\cpuspy.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
crcdisk	CRC Disk Filter Driver				
	c:\windows\system32\drivers\crcdisk.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
dac960nt	dac960nt	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
dellcerc	dellcerc	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
dfsdriver	DfsDriver				
	c:\windows\system32\drivers\dfs.sys				
	File System Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
disk	Disk Driver				
	c:\windows\system32\drivers\disk.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
dmbboot	dmbboot				
	c:\windows\system32\drivers\dmbboot.sys				
	Kernel Driver	No	Disabled		
	Stopped	OK	Normal	No	No
dmio	Logical Disk Manager Driver				
	c:\windows\system32\drivers\dmio.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
dmload	dmload				
	c:\windows\system32\drivers\dmload.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
dpti2o	dpti2o	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
fastfat	Fastfat				
	c:\windows\system32\drivers\fastfat.sys				
	File System Driver	Yes	Disabled		
	Running	OK	Normal	No	Yes
fdc	Floppy Disk Controller Driver				
	c:\windows\system32\drivers\fdc.sys				
	Kernel Driver	Yes	Manual		

fips	Fips				
	c:\windows\system32\drivers\fips.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
flpydisk	Floppy Disk Driver				
	c:\windows\system32\drivers\flpydisk.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
fltmgr	FltMgr				
	c:\windows\system32\drivers\fltmgr.sys				
	File System Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
ftdisk	Volume Manager Driver				
	c:\windows\system32\drivers\ftdisk.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
gpc	Generic Packet Classifier				
	c:\windows\system32\drivers\msgpc.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
hpn	hpn	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
hpqciissb	Smart Array Controllers Non-Miniport Bus Driver				
	c:\windows\system32\drivers\hpqciissb.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
hpqcissd	Smart Array Controllers Non-Miniport Disk Driver				
	c:\windows\system32\drivers\hpqcissd.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
hpt3xx	hpt3xx	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
http	HTTP				
	c:\windows\system32\drivers\http.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
i2omgmt	i2omgmt	Not Available	Kernel Driver		
	No	System	Stopped	OK	
	Normal	No	No		
i2omp	i2omp	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
i8042prt	i8042 Keyboard and PS/2 Mouse Port Driver				
	c:\windows\system32\drivers\i8042prt.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
iirsp	iirsp	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		

imapi	CD-Burning Filter Driver				
	c:\windows\system32\drivers\imapi.sys				
	Kernel Driver	No	System		
	Stopped	OK	Normal	No	No
intelide	IntelIde	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
interruptaffinityfilter	Interrupt Affinity Filter				
	c:\windows\system32\drivers\intfiltr.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
ipfilterdriver	IP Traffic Filter Driver				
	c:\windows\system32\drivers\ipfltdrv.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
ipinip	IP in IP Tunnel Driver				
	c:\windows\system32\drivers\ipinip.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
ipnat	IP Network Address Translator				
	c:\windows\system32\drivers\ipnat.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
ipsec	IPSEC driver				
	c:\windows\system32\drivers\ipsec.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
ipsraidn	ipsraidn	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
isapnp	PnP ISA/EISA Bus Driver				
	c:\windows\system32\drivers\isapnp.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Critical	No	Yes
kbdclass	Keyboard Class Driver				
	c:\windows\system32\drivers\kbdclass.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
ksecdd	KSecDD				
	c:\windows\system32\drivers\ksecdd.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
lp6nds35	lp6nds35	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
mnmdd	mnmdd				
	c:\windows\system32\drivers\mnmdd.sys				
	Kernel Driver	Yes	System		
	Running	OK	Ignore	No	Yes
modem	Modem				
	c:\windows\system32\drivers\modem.sys				
	Kernel Driver	No	Manual		

	Stopped	OK	Ignore	No	No
mouclass	Mouse Class Driver				
	c:\windows\system32\drivers\mouclass.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
mountmgr	Mount Point Manager				
	c:\windows\system32\drivers\mountmgr.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
mraid35x	mraid35x	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
mrxdav	WebDav Client Redirector				
	c:\windows\system32\drivers\mrxdav.sys				
	File System Driver	No	Manual		
	Stopped	OK	Normal	No	No
mrx smb	MRXSMB				
	c:\windows\system32\drivers\mrx smb.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
multevent	MultEvent Driver				
	\\?\c:\windows\system32\drivers\multeventdr				
iver.sys	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
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		

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\rasppptp.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	ql2300	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
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
rasppoe	Remote Access PPPOE Driver c:\windows\system32\drivers\rasppoe.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
raspti	Direct Parallel c:\windows\system32\drivers\raspti.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
rdbss	Rdbss c:\windows\system32\drivers\rdbss.sys				
	File System Driver	Yes	System		
	Running	OK	Normal	No	Yes
rdpcdd	RDPDCC 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
usbehci	Microsoft USB 2.0 Enhanced Host Controller Miniport Driver c:\windows\system32\drivers\usbehci.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
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
usbstor	USB Mass Storage Driver c:\windows\system32\drivers\usbstor.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
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				
	Not Available	Not Available	Not Available	Not Available	
	Not Available	Not Available	Not Available	Not Available	
	Available	Not Available	Not Available	Not Available	
	HTREE\ROOT\0				

```

ACPI Multiprocessor PC      Not Available
COMPUTER Not Available      Not Available
(Standard computers)      Not Available
Not Available              ROOT\ACPI_HAL\0000
Microsoft ACPI-Compliant System No
SYSTEM 5.2.3790.0          10/1/2002
Microsoft acpi.inf Not Available
ACPI_HAL\PNP0C08\0
Processor No PROCESSOR 5.2.3790.1173
10/1/2002 (Standard processor types)
cpu.inf Not Available
ACPI\AUTHENTICAMD_-
_X86_FAMILY_15_MODEL_5\0
Processor No PROCESSOR 5.2.3790.1173
10/1/2002 (Standard processor types)
cpu.inf Not Available
ACPI\AUTHENTICAMD_-
_X86_FAMILY_15_MODEL_5\1
Processor No PROCESSOR 5.2.3790.1173
10/1/2002 (Standard processor types)
cpu.inf Not Available
ACPI\AUTHENTICAMD_-
_X86_FAMILY_15_MODEL_5\2
Processor No PROCESSOR 5.2.3790.1173
10/1/2002 (Standard processor types)
cpu.inf Not Available
ACPI\AUTHENTICAMD_-
_X86_FAMILY_15_MODEL_5\3
ACPI Power Button No SYSTEM 5.2.3790.1173
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0C0C\2&DABA3FF&0
ACPI Lid No SYSTEM 5.2.3790.1173
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0C0D\2&DABA3FF&0
PCI bus No SYSTEM 5.2.3790.1173
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0A03\7
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7460&SUBSYS_00000000&REV_0
7\3&20FEA912&0&18
Standard OpenHCD USB Host Controller No USB
5.2.3790.0 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0018
USB Root Hub No 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 No 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 No USB 5.2.3790.0
10/1/2002 (Standard USB Host Controller)

```

```

usbport.inf Not Available
USB\ROOT_HUB\5&194CD4CC&0
Base System Device Not Available UNKNOWN Not
Available Not Available Not Available Not
Available Not Available
PCI\VEN_0E11&DEV_B203&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1018
Base System Device Not Available UNKNOWN Not
Available Not Available Not Available Not
Available Not Available
PCI\VEN_0E11&DEV_B204&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1218
RAGE XL PCI Family (Microsoft Corporation) No
DISPLAY 5.10.2600.6014 8/8/2001 ATI
Technologies Inc. atiixpad.inf Not Available
PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_2
7\4&12365AD0&0&1818
Default Monitor No MONITOR 5.1.2001.0
6/6/2001 (Standard monitor types)
monitor.inf Not Available
DISPLAY\DEFAULT_MONITOR\5&38B1FFCB&0&800000
00&01&03
PCI standard ISA bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_7468&SUBSYS_00000000&REV_0
5\3&20FEA912&0&20
ISAPNP Read Data Port No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
ISAPNP\READDATAPORT\0
Motherboard resources No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
ACPI\PNP0C02\0
Programmable interrupt controller No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available
ACPI\PNP0000\4&1C7DEDE8&0
System timer No SYSTEM 5.2.3790.1173
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0100\4&1C7DEDE8&0
Direct memory access controller No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available
ACPI\PNP0200\4&1C7DEDE8&0
System speaker No SYSTEM 5.2.3790.1173
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0800\4&1C7DEDE8&0
Standard 101/102-Key or Microsoft Natural PS/2
Keyboard No KEYBOARD 5.2.3790.0
10/1/2002 (Standard keyboards)
keyboard.inf Not Available
ACPI\PNP0303\4&1C7DEDE8&0
PS/2 Compatible Mouse No MOUSE
5.2.3790.0 10/1/2002 Microsoft
msmouse.inf Not Available
ACPI\PNP0F13\4&1C7DEDE8&0

```

```

Extended IO Bus No SYSTEM 5.2.3790.1173
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0A06\4&1C7DEDE8&0
Communications Port No PORTS 5.2.3790.0
10/1/2002 (Standard port types)
msports.inf Not Available
ACPI\PNP0501\0
Standard floppy disk controller No FDC
5.2.3790.0 10/1/2002 (Standard
floppy disk controllers) fdcc.inf Not Available
ACPI\PNP0700\5&1C430410&0
Floppy disk drive No FLOPPYDISK
5.2.3790.0 10/1/2002 (Standard
floppy disk drives) flpydisk.inf Not Available
FDC\GENERIC_FLOPPY_DRIVE\6&2F72E85F&0&0
AMD-8111 PCI Bus Master IDE Controller No HDC
5.2.3790.1173 10/1/2002 Advanced
Micro Devices mshdc.inf Not Available
PCI\VEN_1022&DEV_7469&SUBSYS_32040E11&REV_0
3\3&20FEA912&0&21
Primary IDE Channel No HDC 5.2.3790.1173
10/1/2002 (Standard IDE ATA/ATAPI
controllers) mshdc.inf Not Available
PCI\IDE\IDECHANNEL\4&21637DBD&0&0
CD-ROM Drive No CDROM 5.2.3790.0
10/1/2002 (Standard CD-ROM drives)
cdrom.inf Not Available
IDE\CDROMTEAC_CD-
224E_____9.9A_____ \5&2DC47F1C&0
&0.0.0
AMD-8111 System Management Controller No
SYSTEM 5.2.3790.1173 10/1/2002 AMD
machine.inf Not Available
PCI\VEN_1022&DEV_746B&SUBSYS_32050E11&REV_0
5\3&20FEA912&0&23
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&20FEA912&0&38
Compaq Smart Array 5i Controller No
SCSIADAPTER 5.2.3790.1173
10/1/2002 Compaq pnpscsi.inf Not
Available
PCI\VEN_0E11&DEV_B178&SUBSYS_40800E11&REV_0
1\4&82820FC&0&2038
Compaq Virtual LUN No SYSTEM 5.2.3790.0
10/1/2002 Compaq scsudev.inf Not
Available
SCSI\OTHER\VEN_COMPAQ&PROD_SCSI_COMMUNICATE
&REV_CISS\5&208597A6&0&000
Disk drive No DISKDRIVE 5.2.3790.0
10/1/2002 (Standard disk drives)
disk.inf Not Available
SCSI\DISK\VEN_COMPAQ&PROD_LOGICAL_VOLUME&RE
V_2.36\5&208597A6&0&040
HP NC7782 Gigabit Server Adapter No NET
7.35.0.0 11/21/2003 Hewlett-
Packard Company oem.inf Not Available
PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
0\4&82820FC&0&3038

```

```

HP NC7782 Gigabit Server Adapter      No      NET
7.35.0.0 11/21/2003 Hewlett-
Packard Company oem0.inf Not Available
PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
04&82820FC&0&3138
AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 5.2.3790.1173 10/1/2002 AMD
machine.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&20FEA912&0&39
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&20FEA912&0&40
Smart Array 642 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_0046&SUBSYS_409B0E11&REV_0
1\4&24B9E852&0&3840
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_HP&PROD_LOGICAL_VOLUME\5&1
56CD7E2&0&0000014001000000
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&24B9E852&0&4040
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&28B216E6&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&28B216E6&0&0100004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&28B216E6&0&0200004000000000
AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 5.2.3790.1173 10/1/2002 AMD
machine.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&20FEA912&0&41
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C0
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1101&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C1
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard

```

```

system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1102&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C2
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1103&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C3
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C8
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1101&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C9
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1102&SUBSYS_00000000&REV_0
0\3&20FEA912&0&CA
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
0\3&20FEA912&0&D0
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1101&SUBSYS_00000000&REV_0
0\3&20FEA912&0&D1
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1102&SUBSYS_00000000&REV_0
0\3&20FEA912&0&D2
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1103&SUBSYS_00000000&REV_0
0\3&20FEA912&0&D3
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
0\3&20FEA912&0&D8
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1101&SUBSYS_00000000&REV_0
0\3&20FEA912&0&D9
PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1102&SUBSYS_00000000&REV_0
0\3&20FEA912&0&DA

```

```

PCI standard host CPU bridge No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1103&SUBSYS_00000000&REV_0
0\3&20FEA912&0&DB
PCI bus No SYSTEM 5.2.3790.1173
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0A03\8
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&48
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&25F4D2AC&0&6848
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&1F6C26&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&1F6C26&0&0100004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&1F6C26&0&0200004000000000
AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 5.2.3790.1173 10/1/2002 AMD
machine.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&33B859B7&0&49
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&50
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&9630B56&0&7050
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&18F8E1E&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&18F8E1E&0&0100004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard

```



```

oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&18F8E1E&0&0200004000000000
AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 5.2.3790.1173 10/1/2002 AMD
machine.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&33B859B7&0&51
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&58
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&2534A57B&0&4858
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&208896BC&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&208896BC&0&0100004000000000
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&2534A57B&0&5058
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&17B7FB45&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&17B7FB45&0&0100004000000000
AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 5.2.3790.1173 10/1/2002 AMD
machine.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&33B859B7&0&59
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&60
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&62BA2CA&0&5860
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available

```

```

HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&4A1E610&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&4A1E610&0&0100004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&4A1E610&0&0200004000000000
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&62BA2CA&0&6060
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&D728187&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&D728187&0&0100004000000000
AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 5.2.3790.1173 10/1/2002 AMD
machine.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&33B859B7&0&61
ACPI Fixed Feature Button No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
ACPI\FIXEDBUTTON\2&DABA3FF&0
Logical Disk Manager No SYSTEM
5.2.3790.1173 10/1/2002 (Standard
system devices) machine.inf Not Available
ROOT\DMIO\0000
Volume Manager No SYSTEM 5.2.3790.1173
10/1/2002 (Standard system devices)
machine.inf Not Available
ROOT\FDISK\0000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE284E9E
12OFFSET7E00LENGHTH54CAF76A00
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016
C5OFFSET7E00LENGHTH16B416A000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016
C6OFFSET7E00LENGHTH021F5600
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available

```

```

STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016
C7OFFSET7E00LENGHTHDD10BED400
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE284E9E
29OFFSET7E00LENGHTH16B416A000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE284E9E
26OFFSET7E00LENGHTH021F5600
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE284E9E
27OFFSET7E00LENGHTHDD10BED400
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE284E9E
14OFFSET7E00LENGHTH16B416A000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE284E9E
15OFFSET7E00LENGHTH021F5600
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE284E9E
24OFFSET7E00LENGHTHDD10BED400
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016
DBOFFSET7E00LENGHTH16B416A000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016
DCOFFSET7E00LENGHTH021F5600
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016
C3OFFSET7E00LENGHTH16B416A000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016
C4OFFSET7E00LENGHTH021F5600
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016
D8OFFSET7E00LENGHTH16B416A000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016
D9OFFSET7E00LENGHTH021F5600

```

Generic volume	No	VOLUME	5.2.3790.0
Available	10/1/2002	Microsoft volume.inf	Not
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016			
DAOFFSET7E00LENGTHDD10BED400			
Generic volume	No	VOLUME	5.2.3790.0
Available	10/1/2002	Microsoft volume.inf	Not
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016			
DDOFFSET7E00LENGTH16B416A000			
Generic volume	No	VOLUME	5.2.3790.0
Available	10/1/2002	Microsoft volume.inf	Not
STORAGE\VOLUME\1&30A96598&0&SIGNATURE650016			
DFOFFSET7E00LENGTHA021F5600			
Generic volume	No	VOLUME	5.2.3790.0
Available	10/1/2002	Microsoft volume.inf	Not
STORAGE\VOLUME\1&30A96598&0&SIGNATURE4C6B4C			
6BOFFSET4000LENGTH87A3D0000			
AFD Networking Support Environment		Not Available	
LEGACYDRIVER		Not Available	Not
Available	Not Available	Not Available	Not
Available	ROOT\LEGACY_AFD\0000		
Beep	Not Available	LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_BEEP\0000	
CRC Disk Filter Driver			
LEGACYDRIVER		Not Available	Not
Available	Not Available	Not Available	Not
Available	ROOT\LEGACY_CRCDISK\0000		
dmbot	Not Available	LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_DMBOOT\0000	
dmload			
Not Available		LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_DMLOAD\0000	
Fips			
Not Available		LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_FIPS\0000	
Generic Packet Classifier			
LEGACYDRIVER		Not Available	Not
Available	Not Available	Not Available	Not
Available	ROOT\LEGACY_GPC\0000		
IPSEC driver	Not Available	LEGACYDRIVER	
Not Available		Not Available	Not
Available	Not Available	Not Available	Not
Available	ROOT\LEGACY_IPSEC\0000		
ksecdd	Not Available	LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_KSECDD\0000	
mnmdd			
Not Available		LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_MNMDD\0000	
mountmgr			
Not Available		LEGACYDRIVER	Not
Available	Not Available	Not Available	Not

Available	Not Available		
ROOT\LEGACY_MOUNTMGR\0000			
MultEvent Driver	Not Available	LEGACYDRIVER	
Not Available		Not Available	Not
Available	Not Available	Not Available	Not
ROOT\LEGACY_MULTIEVENT\0000			
NDIS System Driver	Not Available	LEGACYDRIVER	
Not Available		Not Available	Not
Available	Not Available	Not Available	Not
ROOT\LEGACY_NDIS\0000			
Remote Access NDIS TAPI Driver		Not Available	
LEGACYDRIVER		Not Available	Not
Available	Not Available	Not Available	Not
Available	ROOT\LEGACY_NDIS_TAPI\0000		
NDIS Usermode I/O Protocol		Not Available	
LEGACYDRIVER		Not Available	Not
Available	Not Available	Not Available	Not
Available	ROOT\LEGACY_NDISUIO\0000		
NDProxy	Not Available	LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available		Not
ROOT\LEGACY_NDPROXY\0000			
NetBios over Tcpi	Not Available	LEGACYDRIVER	
Not Available		Not Available	Not
Available	Not Available	Not Available	Not
ROOT\LEGACY_NETBT\0000			
Null	Not Available	LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_NULL\0000	
Partition Manager			
Not Available		LEGACYDRIVER	
Not Available		Not Available	Not
Available	Not Available	Not Available	Not
ROOT\LEGACY_PARTMGR\0000			
PCIIde	Not Available	LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_PCIIDE\0000	
Remote Access Auto Connection Driver			
LEGACYDRIVER		Not Available	Not
Available	Not Available	Not Available	Not
Available	ROOT\LEGACY_RASACD\0000		
RDPcdd	Not Available	LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_RDPcdd\0000	
RDPWD			
Not Available		LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_RDPWD\0000	
TCP/IP Protocol Driver			
LEGACYDRIVER		Not Available	Not
Available	Not Available	Not Available	Not
Available	ROOT\LEGACY_TCPIP\0000		
TDTCP	Not Available	LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available	ROOT\LEGACY_TDTCP\0000	
VGA Display Controller.			
LEGACYDRIVER		Not Available	Not
Available	Not Available	Not Available	Not
Available	ROOT\LEGACY_VGASAVE\0000		

volsnap	Not Available	LEGACYDRIVER	Not
Available	Not Available	Not Available	Not
Available	Not Available		Not
ROOT\LEGACY_VOLSNAP\0000			
Remote Access IP ARP Driver		Not Available	
LEGACYDRIVER		Not Available	Not
Available	Not Available	Not Available	Not
Available ROOT\LEGACY_WANARP\0000			
Audio Codecs	No	MEDIA	5.2.3790.0
10/1/2002 (Standard system devices)			
wave.inf		Not Available	
ROOT\MEDIA\MS_MMACH			
Legacy Audio Drivers	No	MEDIA	
5.2.3790.0			
10/1/2002 (Standard system devices)			
wave.inf		Not Available	
ROOT\MEDIA\MS_MMDRV			
Media Control Devices	No	MEDIA	
5.2.3790.0			
10/1/2002 (Standard system devices)			
wave.inf		Not Available	
ROOT\MEDIA\MS_MMCI			
Legacy Video Capture Devices	No	MEDIA	
5.2.3790.0			
10/1/2002 (Standard system devices)			
wave.inf		Not Available	
ROOT\MEDIA\MS_MMVCD			
Video Codecs	No	MEDIA	5.2.3790.0
10/1/2002 (Standard system devices)			
wave.inf		Not Available	
ROOT\MEDIA\MS_MMVID			
WAN Miniport (L2TP)	No	NET	5.2.3790.1173
10/1/2002 Microsoft netrasa.inf			
Available	ROOT\MS_L2TPMINIPORT\0000		Not
WAN Miniport (IP)	No	NET	5.2.3790.1173
10/1/2002 Microsoft netrasa.inf			
Available	ROOT\MS_NDISWANIP\0000		Not
WAN Miniport (PPPOE)	No	NET	
5.2.3790.1173			
10/1/2002 Microsoft netrasa.inf			
netrasa.inf		Not Available	
ROOT\MS_PPPOEMINIPORT\0000			
WAN Miniport (PPTP)	No	NET	5.2.3790.1173
10/1/2002 Microsoft netrasa.inf			
Available	ROOT\MS_PPTPMINIPORT\0000		Not
Direct Parallel	No	NET	5.2.3790.1173
10/1/2002 Microsoft netrasa.inf			
Available	ROOT\MS_PTMINIPORT\0000		Not
Terminal Server Device Redirector		No	
SYSTEM	5.2.3790.1173		10/1/2002
(Standard system devices)			
machine.inf		Not Available	
ROOT\RDPDR\0000			
Terminal Server Keyboard Driver		No	
SYSTEM	5.2.3790.1173		10/1/2002
(Standard system devices)			
machine.inf		Not Available	
ROOT\RDP_KBD\0000			
Terminal Server Mouse Driver		No	
SYSTEM	5.2.3790.1173		10/1/2002
(Standard system devices)			
machine.inf		Not Available	
ROOT\RDP_MOU\0000			
Plug and Play Software Device Enumerator		No	
SYSTEM	5.2.3790.1173		10/1/2002
(Standard system devices)			
machine.inf		Not Available	
ROOT\SYSTEM\0000			
Update Device		No	
SYSTEM	5.2.3790.1173		10/1/2002
(Standard			

```

system devices) machine.inf Not Available
ROOT\SYSTEM\0001
Microsoft System Management BIOS Driver No
SYSTEM 5.2.3790.1173 10/1/2002
(Standard system devices) machine.inf
Not Available ROOT\SYSTEM\0002

```

[Environment Variables]

```

Variable Value User Name
ComSpec %SystemRoot%\system32\cmd.exe <SYSTEM>
Path
%SystemRoot%\system32;%SystemRoot%;%SystemR
oot%\system32\WBEM;C:\Program Files\Microsoft SQL
Server\80\Tools\BINN <SYSTEM>
windir %SystemRoot% <SYSTEM>
OS Windows_NT <SYSTEM>
PROCESSOR_ARCHITECTURE x86 <SYSTEM>
PROCESSOR_LEVEL 15 <SYSTEM>
PROCESSOR_IDENTIFIER x86 Family 15 Model 5
Stepping 10, AuthenticAMD <SYSTEM>
PROCESSOR_REVISION 050a <SYSTEM>
NUMBER_OF_PROCESSORS 4 <SYSTEM>
ClusterLog C:\WINDOWS\Cluster\cluster.log
<SYSTEM>
PATHEXT
.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF
;.WSH <SYSTEM>
TEMP %SystemRoot%\TEMP <SYSTEM>
TMP %SystemRoot%\TEMP <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
FIREBIRD\Administrator
TMP %USERPROFILE%\Local Settings\Temp
FIREBIRD\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	

[Running Tasks]

Name	Path	Process ID	Priority	Min
Working Set	Max Working Set	Start Time		
Version	Size	File Date		
system idle process	Not Available	0	0	0
Available	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available
system	Not Available	4	8	0
1413120	Not Available	Not Available	Not Available	
Not Available	Not Available	Not Available	Not Available	
smss.exe	Not Available	368	11	
204800	1413120	4/22/2004 10:13 AM	Not	Not
Available	Not Available	Not Available	Not Available	Not Available
csrss.exe	Not Available	588	13	Not
Available	Not Available	4/22/2004 10:13 AM	Not	Not
Available	Not Available	Not Available	Not Available	Not Available
winlogon.exe	c:\windows\system32\winlogon.exe	620	13	204800
4/22/2004	10:13 AM	5.2.3790.1173		
(dnssrv.040318-1805)	495.50 KB (507,392 bytes)			
3/22/2004	6:00 AM			
services.exe	c:\windows\system32\services.exe	700	9	204800
4/22/2004	10:13 AM	5.2.3790.1173		
(dnssrv.040318-1805)	113.50 KB (116,224 bytes)			
3/22/2004	6:00 AM			
lsass.exe	c:\windows\system32\lsass.exe	728	9	204800
4/22/2004	10:13 AM	5.2.3790.1173		
(dnssrv.040318-1805)	13.00 KB (13,312 bytes)			
6:00 AM				
svchost.exe	c:\windows\system32\svchost.exe	876	8	204800
4/22/2004	10:13 AM	5.2.3790.1173		
(dnssrv.040318-1805)	15.00 KB (15,360 bytes)			
3/22/2004	6:00 AM			
svchost.exe	c:\windows\system32\svchost.exe	940	8	204800
4/22/2004	10:13 AM	5.2.3790.1173		
(dnssrv.040318-1805)	15.00 KB (15,360 bytes)			
3/22/2004	6:00 AM			
svchost.exe	Not Available	Not Available	1180	8
4/22/2004	10:13 AM	Not Available	Not Available	Not
Available	Not Available	Not Available	Not Available	Not
svchost.exe	Not Available	Not Available	1208	8
4/22/2004	10:13 AM	Not Available	Not Available	Not
Available	Not Available	Not Available	Not Available	Not
svchost.exe	c:\windows\system32\svchost.exe	1772	8	204800
4/22/2004	10:13 AM	5.2.3790.1173		
(dnssrv.040318-1805)	15.00 KB (15,360 bytes)			
3/22/2004	6:00 AM			
msdtc.exe	Not Available	1604	8	Not
Available	Not Available	4/22/2004 10:13 AM	Not	Not
Available	Not Available	Not Available	Not Available	Not Available
svchost.exe	c:\windows\system32\svchost.exe	1772	8	204800
4/22/2004	10:13 AM	5.2.3790.1173		
(dnssrv.040318-1805)	15.00 KB (15,360 bytes)			
3/22/2004	6:00 AM			

wmiprvse.exe	Not Available	1832	8	
Not Available	Not Available	Not Available	Not Available	Not
4/22/2004	10:14 AM	Not Available	Not Available	Not
Available	Not Available	Not Available	Not Available	Not
csrss.exe	Not Available	348	13	Not
Available	Not Available	4/22/2004 10:18 AM	Not	Not
Available	Not Available	Not Available	Not Available	Not
winlogon.exe	c:\windows\system32\winlogon.exe	416	13	204800
4/22/2004	10:18 AM	5.2.3790.1173		
(dnssrv.040318-1805)	495.50 KB (507,392 bytes)			
3/22/2004	6:00 AM			
rdpclip.exe	c:\windows\system32\rdpclip.exe	920	8	204800
4/22/2004	10:18 AM	5.2.3790.1173		
(dnssrv.040318-1805)	59.00 KB (60,416 bytes)			
3/5/2004	9:22 AM			
explorer.exe	c:\windows\explorer.exe	1164	8	204800
4/22/2004	10:18 AM	6.00.3790.1173		
(dnssrv.040318-1805)	1.02 MB (1,070,592 bytes)			
3/22/2004	6:00 AM			
sqlmangr.exe	c:\program files\microsoft sql server\80\tools\bin\sqlmangr.exe	204800	1413120	4/22/2004 10:18 AM
2000.080.0760.00	72.57 KB (74,308 bytes)			
1/15/2004	9:39 PM			
wpabaln.exe	c:\windows\system32\wpabaln.exe	1972	8	204800
4/22/2004	10:20 AM	5.2.3790.0		
(srv03_rtm.030324-2048)	31.00 KB (31,744 bytes)			
3/22/2004	6:00 AM			
logon.scr	Not Available	1352	4	Not
Available	Not Available	4/22/2004 10:24 AM	Not	Not
Available	Not Available	Not Available	Not Available	Not
sqlservr.exe	c:\sql server\mssql\bin\sqlservr.exe	1068	13	204800
4/22/2004	12:28 PM	2000.080.0760.00		
7.17 MB (7,520,337 bytes)				
1/21/2004	8:48 AM			
helpctr.exe	c:\windows\pchealth\helpctr\binaries\helpctr.exe	820	8	204800
4/23/2004	8:40 AM	5.2.3790.1173		
(dnssrv.040318-1805)	722.00 KB (739,328 bytes)			
3/5/2004	9:23 AM			
helpsvc.exe	c:\windows\pchealth\helpctr\binaries\helpsvc.exe	1536	8	204800
4/23/2004	8:40 AM	5.2.3790.1173		
(dnssrv.040318-1805)	844.00 KB (864,256 bytes)			
3/5/2004	9:23 AM			
wmiprvse.exe	Not Available	1268	8	
Not Available	Not Available	Not Available	Not Available	Not
4/23/2004	8:40 AM	Not Available	Not Available	Not
Available	Not Available	Not Available	Not Available	Not

[Loaded Modules]

Name	Version	Size	File Date	Manufacturer
winlogon	5.2.3790.1173	(dnssrv.040318-1805)	495.50 KB (507,392 bytes)	3/22/2004

6:00 AM Microsoft Corporation
c:\windows\system32\winlogon.exe
ntdll 5.2.3790.1173 (dnsvr.040318-1805)
788.50 KB (807,424 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ntdll.dll
kernel32 5.2.3790.1173 (dnsvr.040318-1805)
1,005.50 KB (1,029,632 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\kernel32.dll
msvcrt 7.0.3790.1173 (dnsvr.040318-1805)
321.50 KB (329,216 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msvcrt.dll
advapi32 5.2.3790.1173 (dnsvr.040318-1805)
616.00 KB (630,784 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\advapi32.dll
rpcrt4 5.2.3790.1173 (dnsvr.040318-1805)
650.00 KB (665,600 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\rpcrt4.dll
user32 5.2.3790.1173 (dnsvr.040318-1805)
595.50 KB (609,792 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\user32.dll
gdi32 5.2.3790.1173 (dnsvr.040318-1805)
281.00 KB (287,744 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\gdi32.dll
userenv 5.2.3790.1173 (dnsvr.040318-1805)
757.50 KB (775,680 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\userenv.dll
nddeapi 5.2.3790.0 (srv03_rtm.030324-2048)
16.00 KB (16,384 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\nddeapi.dll
crypt32 5.131.3790.1173 (dnsvr.040318-1805)
600.50 KB (614,912 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\crypt32.dll
msasn1 5.2.3790.1173 (dnsvr.040318-1805)
59.50 KB (60,928 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msasn1.dll
secur32 5.2.3790.1173 (dnsvr.040318-1805)
63.50 KB (65,024 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\secur32.dll
winsta 5.2.3790.1173 (dnsvr.040318-1805)
61.50 KB (62,976 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\winsta.dll
netapi32 5.2.3790.1173 (dnsvr.040318-1805)
356.50 KB (365,056 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\netapi32.dll
profmap 5.2.3790.0 (srv03_rtm.030324-2048)
22.00 KB (22,528 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\profmap.dll

regapi 5.2.3790.1173 (dnsvr.040318-1805)
54.50 KB (55,808 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\regapi.dll
ws2_32 5.2.3790.1173 (dnsvr.040318-1805)
86.00 KB (88,064 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ws2_32.dll
ws2help 5.2.3790.1173 (dnsvr.040318-1805)
20.50 KB (20,992 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ws2help.dll
psapi 5.2.3790.0 (srv03_rtm.030324-2048)
21.50 KB (22,016 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\psapi.dll
version 5.2.3790.0 (srv03_rtm.030324-2048)
17.00 KB (17,408 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\version.dll
setupapi 5.2.3790.1173 (dnsvr.040318-1805)
1.06 MB (1,112,064 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\setupapi.dll
msgina 5.2.3790.1173 (dnsvr.040318-1805)
1.15 MB (1,210,880 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msgina.dll
shsvcs 6.00.3790.1173 (dnsvr.040318-1805)
122.00 KB (124,928 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\shsvcs.dll
shlwapi 6.00.3790.1173 (dnsvr.040318-1805)
309.00 KB (316,416 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\shlwapi.dll
sfc 5.2.3790.0 (srv03_rtm.030324-2048)
4.50 KB (4,608 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\sfc.dll
sfc_os 5.2.3790.1173 (dnsvr.040318-1805)
134.00 KB (137,216 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\sfc_os.dll
wintrust 5.131.3790.1173 (dnsvr.040318-1805)
176.50 KB (180,736 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wintrust.dll
ole32 5.2.3790.1173 (dnsvr.040318-1805)
1.29 MB (1,350,144 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ole32.dll
imagehlp 5.2.3790.0 (srv03_rtm.030324-2048)
142.50 KB (145,920 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\imagehlp.dll
comctl32 6.0 (dnsvr.040318-1805) 905.00 KB
(926,720 bytes) 3/5/2004 9:12 AM Microsoft
Corporation
c:\windows\winsxs\x86_microsoft.windows.com
mon-controls_6595b64144ccf1df_6.0.3790.1173_x-
ww_77752147\comctl32.dll

winscard 5.2.3790.0 (srv03_rtm.030324-2048)
98.50 KB (100,864 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wincard.dll
wtsapi32 5.2.3790.1173 (dnsvr.040318-1805)
17.50 KB (17,920 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wtsapi32.dll
winmm 5.2.3790.1173 (dnsvr.040318-1805)
178.00 KB (182,272 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\winmm.dll
sxs 5.2.3790.1173 (dnsvr.040318-1805)
723.00 KB (740,352 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\sxs.dll
shell32 6.00.3790.1173 (dnsvr.040318-1805)
8.11 MB (8,500,736 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\shell32.dll
wldap32 5.2.3790.1173 (dnsvr.040318-1805)
178.50 KB (182,784 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wldap32.dll
rsaenh 5.2.3790.1173 (dnsvr.040318-1805)
180.98 KB (185,320 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\rsaenh.dll
csddl 5.2.3790.1173 (dnsvr.040318-1805)
105.50 KB (108,032 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\csddl.dll
wlnotify 5.2.3790.1173 (dnsvr.040318-1805)
97.50 KB (99,840 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wlnotify.dll
winspool 5.2.3790.1173 (dnsvr.040318-1805)
160.00 KB (163,840 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\winspool.drv
mpr 5.2.3790.0 (srv03_rtm.030324-2048)
56.00 KB (57,344 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\mpr.dll
oleaut32 5.2.3790.1173 488.50 KB (500,224
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\oleaut32.dll
comctl32 5.82 (dnsvr.040318-1805) 560.00 KB
(573,440 bytes) 3/5/2004 9:12 AM Microsoft
Corporation
c:\windows\winsxs\x86_microsoft.windows.com
mon-controls_6595b64144ccf1df_5.82.3790.1173_x-
ww_1800dbc2\comctl32.dll
uxtheme 6.00.3790.1173 (dnsvr.040318-1805)
212.50 KB (217,600 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\uxtheme.dll
mprapi 5.2.3790.1173 (dnsvr.040318-1805)
94.00 KB (96,256 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\mprapi.dll
activeds 5.2.3790.1173 (dnsvr.040318-1805)
209.50 KB (214,528 bytes) 3/22/2004

6:00 AM Microsoft Corporation
c:\windows\system32\activeds.dll
adslrpc 5.2.3790.1173 (dnsvr.040318-1805)
151.00 KB (154,624 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\adslrpc.dll
credui 5.2.3790.0 (srv03_rtm.030324-2048)
159.00 KB (162,816 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\credui.dll
atl 3.05.2283 83.00 KB (84,992 bytes)
3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\atl.dll
rtutils 5.2.3790.1173 (dnsvr.040318-1805)
34.00 KB (34,816 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\rtutils.dll
samlib 5.2.3790.1173 (dnsvr.040318-1805)
43.50 KB (44,544 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\samlib.dll
clbcatq 2001.12.4720.1173 (dnsvr.040318-1805)
525.00 KB (537,600 bytes) 3/5/2004 9:22
AM Microsoft Corporation
c:\windows\system32\clbcatq.dll
comres 2001.12.4720.0 (srv03_rtm.030324-2048)
778.00 KB (796,672 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\comres.dll
wbemprox 5.2.3790.1173 (dnsvr.040318-1805)
20.00 KB (20,480 bytes) 3/5/2004 9:22
AM Microsoft Corporation
c:\windows\system32\wbem\wbemprox.dll
wbemcomn 5.2.3790.1173 (dnsvr.040318-1805)
239.00 KB (244,736 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wbem\wbemcomn.dll
wbemsvc 5.2.3790.0 (srv03_rtm.030324-2048)
42.50 KB (43,520 bytes) 1/15/2004
8:33 PM Microsoft Corporation
c:\windows\system32\wbem\wbemsvc.dll
fastprox 5.2.3790.1173 (dnsvr.040318-1805)
444.00 KB (454,656 bytes) 3/5/2004 9:22
AM Microsoft Corporation
c:\windows\system32\wbem\fastprox.dll
msvcpc60 6.05.2144.0 388.00 KB (397,312
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\msvcpc60.dll
ntdsapi 5.2.3790.0 (srv03_rtm.030324-2048)
76.00 KB (77,824 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ntdsapi.dll
dnsapi 5.2.3790.1173 (dnsvr.040318-1805)
148.50 KB (152,064 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\dnsapi.dll
services 5.2.3790.1173 (dnsvr.040318-1805)
113.50 KB (116,224 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\services.exe
scesrv 5.2.3790.1173 (dnsvr.040318-1805)
334.00 KB (342,016 bytes) 3/22/2004

6:00 AM Microsoft Corporation
c:\windows\system32\scesrv.dll
authz 5.2.3790.1173 (dnsvr.040318-1805)
68.50 KB (70,144 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\authz.dll
umpnpgmr 5.2.3790.0 (srv03_rtm.030324-2048)
121.50 KB (124,416 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\umpnpgmr.dll
ncobjapi 5.2.3790.1173 (dnsvr.040318-1805)
41.00 KB (41,984 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ncobjapi.dll
eventlog 5.2.3790.1173 (dnsvr.040318-1805)
66.50 KB (68,096 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\eventlog.dll
netevent 5.2.3790.0 (srv03_rtm.030324-2048)
224.00 KB (229,376 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\netevent.dll
lsass 5.2.3790.0 (srv03_rtm.030324-2048)
13.00 KB (13,312 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\lsass.exe
lsaasrv 5.2.3790.1173 (dnsvr.040318-1805)
810.00 KB (829,440 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\lsaasrv.dll
samsrv 5.2.3790.1173 (dnsvr.040318-1805)
462.50 KB (473,600 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\samsrv.dll
cryptdll 5.2.3790.1173 (dnsvr.040318-1805)
34.00 KB (34,816 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\cryptdll.dll
msprivs 5.2.3790.0 (srv03_rtm.030324-2048)
46.50 KB (47,616 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msprivs.dll
kerberos 5.2.3790.1173 (dnsvr.040318-1805)
344.00 KB (352,256 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\kerberos.dll
msv1_0 5.2.3790.1173 (dnsvr.040318-1805)
137.50 KB (140,800 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msv1_0.dll
iphlpapi 5.2.3790.1173 (dnsvr.040318-1805)
91.00 KB (93,184 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\iphlpapi.dll
netlogon 5.2.3790.1173 (dnsvr.040318-1805)
429.00 KB (439,296 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\netlogon.dll
w32time 5.2.3790.1173 (dnsvr.040318-1805)
235.00 KB (240,640 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\w32time.dll

schannel 5.2.3790.1173 (dnsvr.040318-1805)
150.50 KB (154,112 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\schannel.dll
wdigest 5.2.3790.1173 (dnsvr.040318-1805)
69.50 KB (71,168 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wdigest.dll
rassfm 5.2.3790.1173 (dnsvr.040318-1805)
21.00 KB (21,504 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\rassfm.dll
kdcsvc 5.2.3790.1173 (dnsvr.040318-1805)
222.50 KB (227,840 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\kdcsvc.dll
ntdsa 5.2.3790.1173 (dnsvr.040318-1805)
1.60 MB (1,681,408 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ntdsa.dll
ntdsatq 5.2.3790.1173 (dnsvr.040318-1805)
32.00 KB (32,768 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ntdsatq.dll
mwssock 5.2.3790.1173 (dnsvr.040318-1805)
257.00 KB (263,168 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\mwssock.dll
esent 5.2.3790.1173 (dnsvr.040318-1805)
1.02 MB (1,065,472 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\esent.dll
scecli 5.2.3790.1173 (dnsvr.040318-1805)
195.00 KB (199,680 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\scecli.dll
wshtccpip 5.2.3790.0 (srv03_rtm.030324-2048)
18.00 KB (18,432 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wshtccpip.dll
ipsecsvc 5.2.3790.1173 (dnsvr.040318-1805)
194.50 KB (199,168 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ipsecsvc.dll
oakley 5.2.3790.1173 (dnsvr.040318-1805)
337.00 KB (345,088 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\oakley.dll
winipsec 5.2.3790.0 (srv03_rtm.030324-2048)
34.50 KB (35,328 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\winipsec.dll
pstorsvc 5.2.3790.0 (srv03_rtm.030324-2048)
24.00 KB (24,576 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\pstorsvc.dll
psbase 5.2.3790.0 (srv03_rtm.030324-2048)
81.00 KB (82,944 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\psbase.dll
dssenh 5.2.3790.1173 (dnsvr.040318-1805)
134.98 KB (138,216 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\dssenh.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 78.00 KB (79,872 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\wlbsctrl.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 15.00 KB (15,360 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\svchost.exe
 5.2.3790.1173 (dnsvr.040318-1805)
 316.00 KB (323,584 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\rpcss.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 122.50 KB (125,440 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\ntmarta.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 225.50 KB (230,912 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\termsrv.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 11.00 KB (11,264 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\icaapi.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 111.50 KB (114,176 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\mstlsapi.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 95.63 KB (97,928 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\rdpwsx.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 132.50 KB (135,680 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\wkssvc.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 31.00 KB (31,744 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\wiarpd.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 24.00 KB (24,576 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\dmsrv.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 92.50 KB (94,720 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\svrsv.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 135.50 KB (138,752 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\wbem\wmisvc.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 542.00 KB (555,008 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\vssapi.dll
 2001.12.4720.1173 (dnsvr.040318-1805)
 219.00 KB (224,256 bytes) 3/22/2004

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

winrnr 5.2.3790.0 (srv03_rtm.030324-2048)
 15.00 KB (15,360 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\winrnr.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 6.50 KB (6,656 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\rasadhlp.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 70.50 KB (72,192 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\browser.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 11.50 KB (11,776 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\netrap.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 508.50 KB (520,704 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\wbem\wbemcore.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 237.00 KB (242,688 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\wbem\esscli.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 90.50 KB (92,672 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\wbem\wmiutils.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 168.00 KB (172,032 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\wbem\repdrvfs.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 411.00 KB (420,864 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\wbem\wmiprvsd.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 256.50 KB (262,656 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\wbem\wbemess.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 43.00 KB (44,032 bytes) 3/5/2004 9:22

AM Microsoft Corporation
 c:\windows\system32\wbem\ncprov.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 241.50 KB (247,296 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\netman.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 246.00 KB (251,904 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\rasapi32.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 62.50 KB (64,000 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\rasman.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 175.00 KB (179,200 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\tapi32.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 292.50 KB (299,520 bytes) 3/18/2004

5:04 PM Microsoft Corporation
 c:\windows\system32\wccsv.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 6.50 KB (6,656 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\wmi.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 116.00 KB (118,784 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\dhcpcsvc.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 34.00 KB (34,816 bytes) 3/18/2004

5:04 PM Microsoft Corporation
 c:\windows\system32\wzcsapi.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 1.75 MB (1,834,496 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\netshell.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 63.00 KB (64,512 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\clusapi.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 244.00 KB (249,856 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\nhnetcfg.dll
 6.00.3790.1173 (dnsvr.040318-1805)
 651.00 KB (666,624 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\wininet.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 644.50 KB (659,968 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\rasdlg.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 8.00 KB (8,192 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\ntlsapi.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 31.50 KB (32,256 bytes) 1/15/2004

8:35 PM Microsoft Corporation
 c:\windows\pchealth\helpctr\binaries\pchsvc
 .dll

actxprxy 6.00.3790.0 (srv03_rtm.030324-2048)
 95.00 KB (97,280 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\actxprxy.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 731.50 KB (749,056 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\netcfgx.dll
 5.2.3790.1173 (dnsvr.040318-1805)
 87.50 KB (89,600 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\xactsrv.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 22.00 KB (22,528 bytes) 3/22/2004

6:00 AM Microsoft Corporation
 c:\windows\system32\ersvc.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 18.00 KB (18,432 bytes) 3/22/2004

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

scredir 5.2.3790.1173 (dnsvr.040318-1805)
27.00 KB (27,648 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\scredir.dll
cscui 5.2.3790.1173 (dnsvr.040318-1805)
327.00 KB (334,848 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\cscui.dll
msacm32 5.2.3790.0 (srv03_rtm.030324-2048)
21.00 KB (21,504 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msacm32.drv
msacm32 5.2.3790.0 (srv03_rtm.030324-2048)
67.50 KB (69,120 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msacm32.dll
imaadp32 5.2.3790.0 (srv03_rtm.030324-2048)
15.50 KB (15,872 bytes) 3/22/2004
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) 3/22/2004
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) 3/22/2004
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) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msgsm32.acm
tssoft32 1.01 9.50 KB (9,728 bytes)
3/22/2004 6:00 AM DSP GROUP, INC.
c:\windows\system32\tssoft32.acm
tsd32 1.03 16.50 KB (16,896 bytes)
3/22/2004 6:00 AM DSP GROUP, INC.
c:\windows\system32\tsd32.dll
msg723 5.2.3790.1173 116.00 KB (118,784
bytes) 3/5/2004 9:23 AM Microsoft Corporation
c:\windows\system32\msg723.acm
msaud32 8.00.00.4487 288.00 KB (294,912
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\msaud32.acm
sl_anet 3.02 84.00 KB (86,016 bytes)
3/22/2004 6:00 AM Sipro Lab Telecom Inc.
c:\windows\system32\sl_anet.acm
l3codeca 1, 9, 0, 0305 284.00 KB (290,816
bytes) 3/22/2004 6:00 AM Fraunhofer Institut
Integrierte Schaltungen IIS
c:\windows\system32\l3codeca.acm
rdpclip 5.2.3790.1173 (dnsvr.040318-1805)
59.00 KB (60,416 bytes) 3/5/2004 9:22
AM Microsoft Corporation
c:\windows\system32\rdpclip.exe
wsock32 5.2.3790.0 (srv03_rtm.030324-2048)
22.00 KB (22,528 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wsock32.dll
explorer 6.00.3790.1173 (dnsvr.040318-1805)
1.02 MB (1,070,592 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\explorer.exe

browseui 6.00.3790.1173 (dnsvr.040318-1805)
1.09 MB (1,140,736 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\browseui.dll
shdocvw 6.00.3790.1173 (dnsvr.040318-1805)
1.44 MB (1,507,840 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\shdocvw.dll
apphelp 5.2.3790.1173 (dnsvr.040318-1805)
131.00 KB (134,144 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\apphelp.dll
themeui 6.00.3790.1173 (dnsvr.040318-1805)
361.00 KB (369,664 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\themeui.dll
msimg32 5.2.3790.0 (srv03_rtm.030324-2048)
4.50 KB (4,608 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msimg32.dll
linkinfo 5.2.3790.1173 (dnsvr.040318-1805)
18.50 KB (18,944 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\linkinfo.dll
ntshrui 6.00.3790.0 (srv03_rtm.030324-2048)
136.00 KB (139,264 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\ntshrui.dll
urlmon 6.00.3790.1173 (dnsvr.040318-1805)
541.00 KB (553,984 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\urlmon.dll
webcheck 6.00.3790.0 (srv03_rtm.030324-2048)
261.50 KB (267,776 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\webcheck.dll
stobject 5.2.3790.1173 (dnsvr.040318-1805)
121.50 KB (124,416 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\stobject.dll
batmeter 6.00.3790.0 (srv03_rtm.030324-2048)
28.50 KB (29,184 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\batmeter.dll
powrprof 6.00.3790.0 (srv03_rtm.030324-2048)
14.50 KB (14,848 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\powrprof.dll
printui 5.2.3790.1173 (dnsvr.040318-1805)
570.00 KB (583,680 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\printui.dll
cfgmgr32 5.2.3790.0 (srv03_rtm.030324-2048)
17.50 KB (17,920 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\cfgmgr32.dll
drprov 5.2.3790.1173 (dnsvr.040318-1805)
13.00 KB (13,312 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\drprov.dll
ntlanman 5.2.3790.0 (srv03_rtm.030324-2048)
41.00 KB (41,984 bytes) 3/22/2004

6:00 AM Microsoft Corporation
c:\windows\system32\ntlanman.dll
netui0 5.2.3790.0 (srv03_rtm.030324-2048)
75.50 KB (77,312 bytes) 3/22/2004
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) 3/22/2004
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) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\davclnt.dll
browseic 6.00.3790.0 (srv03_rtm.030324-2048)
62.00 KB (63,488 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\browseic.dll
shdoclc 6.00.3790.0 (srv03_rtm.030324-2048)
588.50 KB (602,624 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\shdoclc.dll
sqlmangr 2000.080.0760.00 72.57 KB (74,308 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\sqlmangr.exe
sqlunirl 2000.080.0728.00 176.56 KB (180,800
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\sqlunirl.dll
comdlg32 6.00.3790.1173 (dnsvr.040318-1805)
273.00 KB (279,552 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\comdlg32.dll
w95scm 2000.080.0760.00 48.56 KB (49,728 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\w95scm.dll
odbc32 3.525.1111.00 (dnsvr.040318-1805)
232.00 KB (237,568 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\odbc32.dll
sqlsvc 2000.080.0760.00 92.56 KB (94,784 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\sqlsvc.dll
odbcbc 2000.085.1111.00 (dnsvr.040318-1805)
24.00 KB (24,576 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\odbcbc.dll
sqlresld 2000.080.0382.00 28.56 KB (29,248 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\sqlresld.dll
odbcint 3.525.1111.00 (dnsvr.040318-1805)
92.00 KB (94,208 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\odbcint.dll
resutils 5.2.3790.1173 (dnsvr.040318-1805)
62.50 KB (64,000 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\resutils.dll
sqlsvc 2000.080.0194.00 24.00 KB (24,576 bytes)
1/15/2004 9:39 PM Microsoft Corporation

```

c:\program files\microsoft sql
server\80\tools\bin\resources\1033\sqlsvr.rll
sqlmangr 2000.080.0194.00 96.00 KB (98,304 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\resources\1033\sqlmangr.rll
wpabaln 5.2.3790.0 (srv03_rtm.030324-2048)
31.00 KB (31,744 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\wpabaln.exe
sqlservr 2000.080.0760.00 7.17 MB (7,520,337
bytes) 1/21/2004 8:48 AM Microsoft Corporation
c:\sql server\mssql\bin\sqlservr.exe
opends60 2000.080.0194.00 24.06 KB (24,639 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\opends60.dll
ums 2000.080.0760.00 52.55 KB (53,808 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\ums.dll
sqlsort 2000.080.0760.00 576.56 KB (590,396
bytes) 1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\sqlsort.dll
msvcirt 7.0.3790.0 (srv03_rtm.030324-2048)
50.00 KB (51,200 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msvcirt.dll
shimeng 5.2.3790.1173 (dnssrv.040318-1805)
77.50 KB (79,360 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\shimeng.dll
aclayers 5.2.3790.1173 (dnssrv.040318-1805)
432.50 KB (442,880 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\apppatch\aclayers.dll
sqllevn70 2000.080.0760.00 28.00 KB (28,672 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql
server\mssql\bin\resources\1033\sqllevn70.rll
xolehlp 2001.12.4720.0 (srv03_rtm.030324-2048)
8.50 KB (8,704 bytes) 1/15/2004
8:33 PM Microsoft Corporation
c:\windows\system32\xolehlp.dll
msdtcprx 2001.12.4720.1173 (dnssrv.040318-1805)
497.00 KB (508,928 bytes) 3/5/2004 9:22
AM Microsoft Corporation
c:\windows\system32\msdtcprx.dll
mtxclu 2001.12.4720.1173 (dnssrv.040318-1805)
80.00 KB (81,920 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\mtxclu.dll
ssnetlib 2000.080.0760.00 80.56 KB (82,492 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\ssnetlib.dll
ssnmpn70 2000.080.0534.00 24.56 KB (25,148 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\ssnmpn70.dll
security 5.2.3790.0 (srv03_rtm.030324-2048)
5.50 KB (5,632 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\security.dll
ssmslpcn 2000.080.0760.00 28.56 KB (29,244 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\ssmslpcn.dll

```

```

sqloledb 2000.085.1111.00 (dnssrv.040318-1805)
532.00 KB (544,768 bytes) 3/5/2004 9:23
AM Microsoft Corporation c:\program
files\common files\system\ole db\sqloledb.dll
msdart 2.81.1111.0 (dnssrv.040318-1805)
164.00 KB (167,936 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msdart.dll
msdatl3 2.81.1111.0 (dnssrv.040318-1805)
96.00 KB (98,304 bytes) 3/5/2004 9:23
AM Microsoft Corporation c:\program
files\common files\system\ole db\msdatl3.dll
oledb32 2.81.1111.0 (dnssrv.040318-1805)
504.00 KB (516,096 bytes) 3/5/2004 9:23
AM Microsoft Corporation c:\program
files\common files\system\ole db\oledb32.dll
oledb32r 2.81.1111.0 (dnssrv.040318-1805)
68.00 KB (69,632 bytes) 3/5/2004 9:23
AM Microsoft Corporation c:\program
files\common files\system\ole db\oledb32r.dll
xpstar 2000.080.0760.00 280.56 KB (287,296
bytes) 1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\xpstar.dll
sqlresld 2000.080.0382.00 28.56 KB (29,248 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\sqlresld.dll
sqlsvr 2000.080.0760.00 92.56 KB (94,784 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\sqlsvr.dll
w95scm 2000.080.0760.00 48.56 KB (49,728 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql server\mssql\bin\w95scm.dll
shfolder 6.00.3790.0 (srv03_rtm.030324-2048)
23.00 KB (23,552 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\shfolder.dll
sqlsvr 2000.080.0194.00 24.00 KB (24,576 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql
server\mssql\bin\resources\1033\sqlsvr.rll
xpstar 2000.080.0760.00 36.00 KB (36,864 bytes)
1/15/2004 9:39 PM Microsoft Corporation
c:\sql
server\mssql\bin\resources\1033\xpstar.rll
helpctr 5.2.3790.1173 (dnssrv.040318-1805)
722.00 KB (739,328 bytes) 3/5/2004 9:23
AM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpct
r.exe
hcappres 5.2.3790.0 (srv03_rtm.030324-2048)
6.50 KB (6,656 bytes) 1/15/2004
8:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\hcappr
es.dll
itss 5.2.3790.1173 (dnssrv.040318-1805)
119.50 KB (122,368 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\itss.dll
msxml3 8.50.2135.0 1.32 MB (1,383,936
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\msxml3.dll
winhttp 5.2.3790.1173 (dnssrv.040318-1805)
332.50 KB (340,480 bytes) 3/5/2004 9:12

```

```

AM Microsoft Corporation
c:\windows\winsxs\x86_microsoft.windows.win
http_6595b64144ccf1df_5.1.3790.1173_x-
ww_70a6a373\winhttp.dll
pchshell 5.2.3790.0 (srv03_rtm.030324-2048)
100.50 KB (102,912 bytes) 1/15/2004
8:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchshe
ll.dll
mlang 6.00.3790.1173 (dnssrv.040318-1805)
581.00 KB (594,944 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\mlang.dll
mshtml 6.00.3790.1173 (dnssrv.040318-1805)
3.03 MB (3,179,520 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
msimtf 5.2.3790.1173 (dnssrv.040318-1805)
173.00 KB (177,152 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msimtf.dll
msctf 5.2.3790.1173 (dnssrv.040318-1805)
328.00 KB (335,872 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\msctf.dll
jscript 5.6.0.8822 472.00 KB (483,328
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\jscript.dll
msls31 3.10.349.0 147.00 KB (150,528
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\msls31.dll
imm32 5.2.3790.1173 (dnssrv.040318-1805)
112.50 KB (115,200 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\imm32.dll
mshtml 6.00.3790.0 (srv03_rtm.030324-2048)
443.50 KB (454,144 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
vbscript 5.6.0.8822 444.00 KB (454,656
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\vbscript.dll
mfc42 6.06.4035.0 960.00 KB (983,040
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\mfc42.dll
msinfo 5.2.3790.1173 (dnssrv.040318-1805)
360.50 KB (369,152 bytes) 3/5/2004 9:23
AM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo
.dll
mfc42u 6.06.4035.0 960.00 KB (983,040
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\mfc42u.dll
riched32 5.2.3790.0 (srv03_rtm.030324-2048)
3.50 KB (3,584 bytes) 3/22/2004
6:00 AM Microsoft Corporation
c:\windows\system32\riched32.dll
riched20 5.31.23.1218 406.00 KB (415,744
bytes) 3/22/2004 6:00 AM Microsoft Corporation
c:\windows\system32\riched20.dll
helpsvc 5.2.3790.1173 (dnssrv.040318-1805)
844.00 KB (864,256 bytes) 3/5/2004 9:23
AM 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
Alerter          Alerter  Stopped   Disabled   Share Process
c:\windows\system32\svchost.exe -k
localservice    Normal   NT        0
AUTHORITY\LocalService
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
Windows Audio AudioSrv Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Background Intelligent Transfer Service BITS
Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Computer Browser Browser Running Auto
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Indexing Service CiSvc Stopped Disabled
Share Process
c:\windows\system32\cisvc.exe Normal
LocalSystem 0
ClipBook ClipSrv Stopped Disabled Own Process
c:\windows\system32\clipsrv.exe
Normal LocalSystem 0
COM+ System Application COMSysApp Stopped
Disabled Own Process
c:\windows\system32\dllhost.exe
/processid:{02d4b3f1-fd88-11d1-960d-00805fc79235}
Normal LocalSystem 0
Cryptographic Services CryptSvc Stopped
Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Distributed File System Dfs Stopped
Disabled 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
dmadm Stopped Manual Share Process
c:\windows\system32\dmadm.exe /com
Normal LocalSystem 0
Logical Disk Manager dmsrvr 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 Stopped
Disabled 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 IsmSrv Stopped Disabled Own
Process c:\windows\system32\ismssrv.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
Windows Installer MSIInstaller Stopped Manual
Share Process
c:\windows\system32\msiexec.exe /v
Normal LocalSystem 0
MSSQLSERVER MSSQLSERVER Stopped
Manual Own Process
c:\sqlser-1\mssql\bin\sqlservr.exe
Normal LocalSystem 0
MSSQLServerADHelper MSSQLServerADHelper Stopped
Manual Own Process c:\program
files\microsoft sql server\80\tools\bin\sqladhlp.exe
Normal LocalSystem 0
Network DDE NetDDE Stopped Disabled
Share Process
c:\windows\system32\netdde.exe
Normal LocalSystem 0
Network DDE DSDM NetDDEdsdm Stopped
Disabled Share Process
c:\windows\system32\netdde.exe
Normal LocalSystem 0
Net Logon Netlogon Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal
LocalSystem 0
Network Connections Netman Running Manual
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Network Location Awareness (NLA) Nla
Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
File Replication NtFrs Stopped Manual Own
Process c:\windows\system32\ntfrs.exe Ignore
LocalSystem 0
NT LM Security Support Provider NtLmSpS
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
Plug and Play PlugPlay Running Auto
Share Process
c:\windows\system32\services.exe
Normal LocalSystem 0
IPSEC Services PolicyAgent Running
Auto 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
Stopped 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 LocalSystem 0
Resultant Set of Policy Provider RSoPProv
Stopped Manual Share Process
c:\windows\system32\rsopprov.exe
Normal LocalSystem 0
Special Administration Console Helper saccsvr
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 Stopped
Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Internet Connection Firewall (ICF) / 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
SQLSERVERAGENT SQLSERVERAGENT Stopped
Manual Own Process
c:\sqlser-1\mssql\bin\sqlagent.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
Auto Own Process
c:\windows\system32\smlogsvc.exe
Normal NT Authority\NetworkService 0

Telephony Tapisrv Stopped Manual Share Process
c:\windows\system32\svchost.exe -k tapisrv
Normal LocalSystem 0
Terminal Services TermService Running
Manual Share Process
c:\windows\system32\svchost.exe -k termsvcs
Normal LocalSystem 0
Themes Themes Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Telnet TlntSvr Stopped Disabled Own Process
c:\windows\system32\tlntsvr.exe
Normal NT AUTHORITY\LocalService 0

Distributed Link Tracking Server TrkSvr
Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Distributed Link Tracking Client TrkWks
Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Terminal Services Session Directory Tssdis
Stopped Disabled Own Process
c:\windows\system32\tssdis.exe
Normal LocalSystem 0
Upload Manager uploadmgr Stopped Manual
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Uninterruptible Power Supply UPS Stopped
Manual Own Process
c:\windows\system32\ups.exe Normal NT
AUTHORITY\LocalService 0
Virtual Disk Service vds Stopped
Manual Own Process

```

```

c:\windows\system32\vds.exe Normal
LocalSystem 0
Volume Shadow Copy VSS Stopped Manual Own
Process c:\windows\system32\vssvc.exe Normal
LocalSystem 0
Windows Time W32Time Running Auto
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
WebClient WebClient Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k
localservice Normal NT
AUTHORITY\LocalService 0
WinHTTP Web Proxy Auto-Discovery Service
WinHttpAutoProxySvc Stopped Manual
Share Process
c:\windows\system32\svchost.exe -k
localservice Normal NT
AUTHORITY\LocalService 0
Windows Management Instrumentation winmgmt
Running Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs
Ignore LocalSystem 0
Portable Media Serial Number Service WmdmPmsN
Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Windows Management Instrumentation Driver Extensions
Wmi Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
WMI Performance Adapter WmiApSrv Stopped
Manual Own Process
c:\windows\system32\wbem\wmiapsrv.exe
Normal LocalSystem 0
Automatic Updates wuauver Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Wireless Configuration WZCSVC Stopped
Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0

[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
Java Web Start Default User:Java Web Start
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
AMD System Analysis Tools All Users:AMD System
Analysis Tools All Users
AMD System Analysis Tools\CpuSpy All Users:AMD
System Analysis Tools\CpuSpy All Users
Microsoft SQL Server All Users:Microsoft SQL
Server All Users
Startup All Users:Startup All Users
Accessories NT AUTHORITY\SYSTEM:Accessories
NT AUTHORITY\SYSTEM
Accessories\Accessibility NT
AUTHORITY\SYSTEM:Accessories\Accessibility NT
AUTHORITY\SYSTEM
Accessories\Entertainment NT
AUTHORITY\SYSTEM:Accessories\Entertainment NT
AUTHORITY\SYSTEM
Java Web Start NT AUTHORITY\SYSTEM:Java Web
Start NT AUTHORITY\SYSTEM
Startup NT AUTHORITY\SYSTEM:Startup NT
AUTHORITY\SYSTEM
Accessories
FIREBIRD\Administrator:Accessories
FIREBIRD\Administrator
Accessories\Accessibility
FIREBIRD\Administrator:Accessories\Accessib
ility
FIREBIRD\Administrator
Accessories\Entertainment
FIREBIRD\Administrator:Accessories\Entertai
nment
FIREBIRD\Administrator
Administrative Tools
FIREBIRD\Administrator:Administrative Tools
FIREBIRD\Administrator
Startup
FIREBIRD\Administrator:Startup
FIREBIRD\Administrator

[Startup Programs]

Program Command User Name Location
desktop desktop.ini NT AUTHORITY\SYSTEM
Startup
desktop desktop.ini FIREBIRD\Administrator
Startup
desktop desktop.ini .DEFAULT Startup
desktop desktop.ini All Users Common
Startup
IDW Logging Tool c:\windows\system32\idwlog.exe -3
All Users Common Startup
Service Manager
c:\progra-1\micros-1\80\tools\bin\sqlmangr
.exe /n 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
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 6.0.3790.0
Build 63790
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
advpack.dll 6.0.3790.0 94 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
actxprxy.dll 6.0.3790.0 95 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
advpack.dll 6.0.3790.0 94 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
asctrls.ocx 6.0.3790.0 90 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
browselc.dll 6.0.3790.0 62 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
browseui.dll 6.0.3790.1173 1,114 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
cdfview.dll 6.0.3790.0 144 KB
3/22/2004 7:00:00 AM

```

```

C:\WINDOWS\system32 Microsoft Corporation
comctl32.dll 5.82.3790.1173 560 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
dxtrans.dll 6.3.3790.0 198 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
dxtmsft.dll 6.3.3790.0 344 KB
3/22/2004 7:00:00 AM
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 16.0.3790.1173 304 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iepeers.dll 6.0.3790.0 230 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iesetup.dll 6.0.3790.0 59 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
ieuinit.inf Not Available 20 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Not Available
iexplore.exe 6.0.3790.0 90 KB
3/25/2003 7:00:00 AM C:\Program
Files\Internet Explorer Microsoft Corporation
imgutil.dll 5.2.3790.0 35 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inetctl.cpl 6.0.3790.0 303 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inetctlc.dll 6.0.3790.0 109 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inseng.dll 6.0.3790.0 72 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mlang.dll 6.0.3790.1173 581 KB 3/22/2004
7:00:00 AM C:\WINDOWS\system32 Microsoft
Corporation
msencode.dll 2002.10.4.0 112 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Not Available

```

```

mshta.exe 6.0.3790.1173      28 KB    3/22/2004
7:00:00 AM C:\WINDOWS\system32 Microsoft
Corporation
mshtml.dll 6.0.3790.1173      3,105 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.tlb 6.0.3790.0          1,319 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll 6.0.3790.0          444 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll 6.0.3790.0          55 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msident.dll 6.0.3790.0          47 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msident.dll 6.0.3790.0          15 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msieftp.dll 6.0.3790.1173          232 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msrating.dll 6.0.3790.0          132 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mstime.dll 6.0.3790.0          491 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
occache.dll 6.0.3790.0           89 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
proctexe.ocx 6.3.3790.0           78 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Intel Corporation
sendmail.dll 6.0.3790.1173          53 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdoclc.dll 6.0.3790.0          589 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdocvw.dll 6.0.3790.1173        1,473 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shfolder.dll 6.0.3790.0           23 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation

```

```

shlwapi.dll 6.0.3790.1173      309 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
tdc.ocx 1.3.0.3130          58 KB    3/22/2004
7:00:00 AM C:\WINDOWS\system32 Microsoft
Corporation
url.dll 6.0.3790.0          36 KB    3/22/2004
7:00:00 AM C:\WINDOWS\system32 Microsoft
Corporation
urlmon.dll 6.0.3790.1173      541 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
webcheck.dll 6.0.3790.0          262 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
wininet.dll 6.0.3790.1173      651 KB
3/22/2004 7:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation

[Connectivity]

Item Value
Connection Preference Never dial

LAN Settings

AutoConfigProxy wininet.dll
AutoProxyDetectMode Disabled
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 Medium
Internet High
Restricted sites Custom

```

Client Summary

System Information report written at: 02/14/04
11:35:08
System Name: CL150
[System Summary]

```

Item Value
OS Name Microsoft(R) Windows(R) Server 2003,
Standard Edition
Version 5.2.3790 Build 3790
OS Manufacturer Microsoft Corporation
System Name CL150
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
Processor x86 Family 15 Model 2 Stepping 5
GenuineIntel ~3065 Mhz
Processor x86 Family 15 Model 2 Stepping 5
GenuineIntel ~3065 Mhz
Processor x86 Family 15 Model 2 Stepping 5
GenuineIntel ~3065 Mhz
BIOS Version/Date HP P31, 7/4/2003
SMBIOS Version 2.3
Windows Directory C:\WINDOWS
System Directory C:\WINDOWS\system32
Boot Device \Device\HarddiskVolume1

```

Locale United States
Hardware Abstraction Layer Version = "5.2.3790.0 (srv03_rtm.030324-2048)"
User Name CL150\Administrator
Time Zone Central Standard Time
Total Physical Memory 1,024.00 MB
Available Physical Memory 791.61 MB
Total Virtual Memory 3.41 GB
Available Virtual Memory 3.06 GB
Page File Space 2.41 GB
Page File C:\pagefile.sys

[Hardware Resources]

[Conflicts/Sharing]

Resource Device
I/O Port 0x00000000-0x00000CFF PCI bus
I/O Port 0x00000000-0x00000CFF PCI bus
I/O Port 0x00000000-0x00000CFF Direct memory access controller
I/O Port 0x000003C0-0x000003DF PCI bus
I/O Port 0x000003C0-0x000003DF RAGE XL PCI Family (Microsoft Corporation)
Memory Address 0xA0000-0xBFFFF PCI bus
Memory Address 0xA0000-0xBFFFF RAGE XL PCI Family (Microsoft Corporation)
I/O Port 0x000003B0-0x000003BB PCI bus
I/O Port 0x000003B0-0x000003BB RAGE XL PCI Family (Microsoft Corporation)

[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
0x00000000-0x00000CFF PCI bus OK
0x00000000-0x00000CFF PCI bus OK
0x00000000-0x00000CFF Direct memory access controller OK
0x000003B0-0x000003BB PCI bus OK
0x000003B0-0x000003BB RAGE XL PCI Family (Microsoft Corporation) OK
0x000003C0-0x000003DF PCI bus OK
0x000003C0-0x000003DF RAGE XL PCI Family (Microsoft Corporation) OK

0x00002400-0x000024FF RAGE XL PCI Family (Microsoft Corporation) OK
0x00002800-0x000028FF Compaq Smart Array 5i Controller OK
0x00001800-0x000018FF Base System Device OK
0x00002C00-0x00002CFF Base System Device OK
0x00000A79-0x00000A79 ISAPNP Read Data Port OK
0x00000279-0x00000279 ISAPNP Read Data Port OK
0x00000274-0x00000277 ISAPNP Read Data Port OK
0x00000F50-0x00000F58 Motherboard resources OK
0x00000408-0x0000040F Motherboard resources OK
0x00000092-0x00000092 Motherboard resources OK
0x00000900-0x00000903 Motherboard resources OK
0x00000910-0x00000911 Motherboard resources OK
0x00000920-0x00000923 Motherboard resources OK
0x00000930-0x00000937 Motherboard resources OK
0x00000940-0x00000947 Motherboard resources OK
0x00000950-0x00000957 Motherboard resources OK
0x00000C06-0x00000C08 Motherboard resources OK
0x00000C14-0x00000C14 Motherboard resources OK
0x00000C49-0x00000C4A Motherboard resources OK
0x00000C50-0x00000C52 Motherboard resources OK
0x00000C6C-0x00000C6F Motherboard resources OK
0x00000010-0x0000001F Motherboard resources OK
0x00000230-0x00000233 Motherboard resources OK
0x00000260-0x00000267 Motherboard resources OK
0x000004D0-0x000004D1 Motherboard resources OK
0x00000700-0x0000070F Motherboard resources OK
0x00000800-0x0000081F Motherboard resources OK
0x00000C80-0x00000C83 Motherboard resources OK
0x00000CD4-0x00000CD7 Motherboard resources OK
0x00000CF9-0x00000CF9 Motherboard resources OK
0x00000020-0x00000021 Programmable interrupt controller OK

0x000000A0-0x000000A1 Programmable interrupt controller OK
0x00000C00-0x00000C01 Programmable interrupt controller OK
0x00000040-0x00000043 System timer OK
0x00000080-0x0000008F Direct memory access controller OK
0x000000C0-0x000000DF Direct memory access controller OK
0x0000040B-0x0000040B Direct memory access controller OK
0x000004D6-0x000004D6 Direct memory access controller OK
0x00000061-0x00000061 System speaker OK
0x00000060-0x00000060 Standard 101/102-Key or Microsoft Natural PS/2 Keyboard OK
0x00000064-0x00000064 Standard 101/102-Key or Microsoft Natural PS/2 Keyboard OK
0x0000002E-0x0000002F Extended IO Bus OK
0x00000220-0x00000223 Extended IO Bus OK
0x00000240-0x0000025F Extended IO Bus OK
0x00000070-0x00000073 Extended IO Bus OK
0x000003F8-0x000003FF Communications Port (COM1) OK
0x000003F2-0x000003F5 Standard floppy disk controller OK
0x000003F7-0x000003F7 Standard floppy disk controller OK
0x00002000-0x0000200F CSB5 IDE Controller OK
0x000001F0-0x000001F7 Primary IDE Channel OK
0x000003F6-0x000003F6 Primary IDE Channel OK
0x00000170-0x00000177 Secondary IDE Channel OK
0x00000376-0x00000376 Secondary IDE Channel OK

[IRQs]

Resource Device Status
IRQ 9 Microsoft ACPI-Compliant System OK
IRQ 31 Compaq Smart Array 5i Controller OK
IRQ 5 Base System Device OK
IRQ 7 Base System Device OK
IRQ 0 System timer OK
IRQ 1 Standard 101/102-Key or Microsoft Natural PS/2 Keyboard OK
IRQ 12 PS/2 Compatible Mouse OK
IRQ 4 Communications Port (COM1) OK
IRQ 6 Standard floppy disk controller OK
IRQ 14 Primary IDE Channel OK

```

IRQ 10 ServerWorks (RCC) PCI to USB Open Host
Controller OK
IRQ 30 BCM5703 Gigabit Ethernet #2 OK
IRQ 29 BCM5703 Gigabit Ethernet OK

```

[Memory]

Resource	Device	Status
0xA0000-0xBFFFF	PCI bus	OK
0xA0000-0xBFFFF	RAGE XL PCI Family (Microsoft Corporation)	OK
0xF5D00000-0xF6FFFFFF	PCI bus	OK
0xF6000000-0xF6FFFFFF	RAGE XL PCI Family (Microsoft Corporation)	OK
0xF5FF0000-0xF5FF0FFF	RAGE XL PCI Family (Microsoft Corporation)	OK
0xF5F80000-0xF5FBFFFF	Compaq Smart Array 5i Controller	OK
0xF5DF0000-0xF5DF3FFF	Compaq Smart Array 5i Controller	OK
0xF5F70000-0xF5F701FF	Base System Device	OK
0xF5F60000-0xF5F607FF	Base System Device	OK
0xF5F50000-0xF5F51FFF	Base System Device	OK
0xF5E80000-0xF5EFFFFF	Base System Device	OK
0xF5E70000-0xF5E70FFF	ServerWorks (RCC) PCI to USB Open Host Controller	OK
0xF7E00000-0xF7EFFFFFF	PCI bus	OK
0xF7EF0000-0xF7EFFFFFF	BCM5703 Gigabit Ethernet #2	OK
0xF7F00000-0xF7FFFFFF	PCI bus	OK
0xF7FF0000-0xF7FFFFFF	BCM5703 Gigabit Ethernet	OK

[Components]

[Multimedia]

[Audio Codecs]

CODEC	Manufacturer	Description	Status	File	Version	Size	Creation Date
	c:\windows\system32\sl_anet.acm	Sipro Lab Telecom Audio Codec	OK	sl_anet.acm			
	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 Windows Media Audio Codec	OK	msaud32.acm			
	C:\WINDOWS\system32\MSAUD32.ACM				8.00.00.4487	288.00 KB (294,912 bytes)	3/25/2003 6:00 AM
	c:\windows\system32\tssoft32.acm	DSP GROUP, INC.	OK	tssoft32.acm			
	C:\WINDOWS\system32\TSSOFT32.ACM						

Time	File	Manufacturer	Size	Creation Date
1.01	9.50 KB (9,728 bytes)			
3/25/2003 6:00 AM				
	c:\windows\system32\msadp32.acm	Microsoft Corporation		
	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\msg723.acm	Microsoft Corporation		
	C:\WINDOWS\system32\MSG723.ACM			
	4.4.4000 116.00 KB (118,784 bytes)			12/2/2003 1:35 PM
	c:\windows\system32\l3codeca.acm	Fraunhofer Institut Integrierte Schaltungen IIS		
	IIS MPEG Layer-3 Codec	OK		
	C:\WINDOWS\system32\L3CODECA.ACM		1,	
	9, 0, 0305		284.00 KB (290,816 bytes)	3/25/2003 6:00 AM
	c:\windows\system32\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
6:00 AM				
	c:\windows\system32\imaadp32.acm	Microsoft Corporation		
	C:\WINDOWS\system32\IMAADP32.ACM			
	5.2.3790.0 (srv03_rtm.030324-2048)			
	15.50 KB (15,872 bytes)			3/25/2003

[Video Codecs]

CODEC	Manufacturer	Description	Status	File	Version	Size	Creation Date
	c:\windows\system32\msh261.drvc	Microsoft Corporation	OK	msh261.drvc			
	C:\WINDOWS\system32\MSH261.DRV				4.4.4000	180.00 KB (184,320 bytes)	12/2/2003 1:35 PM
	c:\windows\system32\msh263.drvc	Microsoft Corporation	OK	msh263.drvc			
	C:\WINDOWS\system32\MSH263.DRV				4.4.4000	284.00 KB (290,816 bytes)	3/24/2003 7:46 PM
	c:\windows\system32\tszyuv.dll	Microsoft Corporation	OK	tszyuv.dll			
	C:\WINDOWS\system32\TSZYUV.DLL				5.2.3790.0 (srv03_rtm.030324-2048)	8.00 KB (8,192 bytes)	3/24/2003
7:50 PM							
	c:\windows\system32\msrle32.dll	Microsoft Corporation	OK	msrle32.dll			
	C:\WINDOWS\system32\MSRLE32.DLL				5.2.3790.0 (srv03_rtm.030324-2048)		

Time	File	Manufacturer	Size	Creation Date
10.50 KB (10,752 bytes)				3/25/2003
6:00 AM				
	c:\windows\system32\msvidc32.dll	Microsoft Corporation		
	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\iyuv_32.dll	Microsoft Corporation		
	C:\WINDOWS\system32\IYUV_32.DLL			
	5.2.3790.0 (srv03_rtm.030324-2048)			
	45.00 KB (46,080 bytes)			3/24/2003
7:49 PM				
	c:\windows\system32\msyuv.dll	Microsoft Corporation		
	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

[CD-ROM]

Item	Value
Drive D:	
Description	CD-ROM Drive
Media Loaded	No
Media Type	CD-ROM
Name	COMPAQ CRN-8245B
Manufacturer	(Standard CD-ROM drives)
Status	OK
Transfer Rate	Not Available
SCSI Target ID	0
PNP Device ID	IDE\CDROMCOMPAQ_CRN-8245B
Driver	c:\windows\system32\drivers\cdrom.sys (5.2.3790.0 (srv03_rtm.030324-2048), 49.50 KB (50,688 bytes), 3/25/2003 6:00 AM)

[Sound Device]

Item	Value
Name	RAGE XL PCI Family (Microsoft Corporation)

[Display]

Item	Value
Name	RAGE XL PCI Family (Microsoft Corporation)
PNP Device ID	PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_27\3&267A616A&0&18
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 0x00002400-0x000024FF
 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), 12/2/2003
 7:28 AM)

[Infrared]

Item Value

[Input]

[Keyboard]

Item Value
 Description Standard 101/102-Key or Microsoft
 Natural PS/2 Keyboard
 Name Enhanced (101- or 102-key)
 Layout 00000409
 PNP Device ID ACPI\PNP0303\4&35118DFF&0
 Number of Function Keys 12
 I/O Port 0x00000060-0x0000006F
 I/O Port 0x00000064-0x00000064
 IRQ Channel IRQ 1
 Driver c:\windows\system32\drivers\i8042prt.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 68.50 KB (70,144
 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&35118DFF&0
 Power Management Supported No
 Double Click Threshold 6
 Handedness Right Handed Operation
 IRQ Channel IRQ 12
 Driver c:\windows\system32\drivers\i8042prt.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 68.50 KB (70,144
 bytes), 3/25/2003 6:00 AM)

[Modem]

Item Value

[Network]

[Adapter]

Item Value
 Name [00000001] BCM5703 Gigabit Ethernet
 Adapter Type Ethernet 802.3
 Product Type BCM5703 Gigabit Ethernet

Installed Yes
 PNP Device ID PCI\VEN_14E4&DEV_16A7&SUBSYS_00CB0E11&REV_0
 2\3&1070020&0&10
 Last Reset 2/14/2004 11:17 AM
 Index 1
 Service Name b57w2k
 IP Address 130.172.11.150
 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 00:0B:CD:AF:78:A8
 Memory Address 0xF7FF0000-0xF7FFFFFF
 IRQ Channel IRQ 29
 Driver c:\windows\system32\drivers\b57xp32.sys
 (2.91.0.0 built by: WinDDK, 137.00 KB (140,288
 bytes), 12/2/2003 7:28 AM)

Name [00000002] BCM5703 Gigabit Ethernet
 Adapter Type Ethernet 802.3
 Product Type BCM5703 Gigabit Ethernet
 Installed Yes
 PNP Device ID PCI\VEN_14E4&DEV_16A7&SUBSYS_00CB0E11&REV_0
 2\3&13C0B0C5&0&10
 Last Reset 2/14/2004 11:17 AM
 Index 2
 Service Name b57w2k
 IP Address 130.168.40.150
 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 00:0B:CD:AF:76:05
 Memory Address 0xF7EF0000-0xF7EFFFFF
 IRQ Channel IRQ 30
 Driver c:\windows\system32\drivers\b57xp32.sys
 (2.91.0.0 built by: WinDDK, 137.00 KB (140,288
 bytes), 12/2/2003 7:28 AM)

Name [00000003] RAS Async Adapter
 Adapter Type Not Available
 Product Type RAS Async Adapter
 Installed Yes
 PNP Device ID Not Available
 Last Reset 2/14/2004 11:17 AM
 Index 3
 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 [00000004] WAN Miniport (L2TP)

Adapter Type Not Available
 Product Type WAN Miniport (L2TP)
 Installed Yes
 PNP Device ID ROOT\MS_L2TPMINIPORT\0000
 Last Reset 2/14/2004 11:17 AM
 Index 4
 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
 (5.2.3790.0 (srv03_rtm.030324-2048), 77.00 KB (78,848
 bytes), 3/25/2003 6:00 AM)

Name [00000005] 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 2/14/2004 11:17 AM
 Index 5
 Service Name PptpMiniport
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled No
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 50:50:54:50:30:30
 Driver c:\windows\system32\drivers\raspptp.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 70.50 KB (72,192
 bytes), 3/25/2003 6:00 AM)

Name [00000006] WAN Miniport (PPPOE)
 Adapter Type Wide Area Network (WAN)
 Product Type WAN Miniport (PPPOE)
 Installed Yes
 PNP Device ID ROOT\MS_PPPOEMINIPORT\0000
 Last Reset 2/14/2004 11:17 AM
 Index 6
 Service Name RasPppoe
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled No
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 33:50:6F:45:30:30
 Driver c:\windows\system32\drivers\rasppoe.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 38.00 KB (38,912
 bytes), 3/25/2003 6:00 AM)

Name [00000007] Direct Parallel
 Adapter Type Not Available
 Product Type Direct Parallel
 Installed Yes

PNP Device ID ROOT\MS_PTMINIPORT\0000
 Last Reset 2/14/2004 11:17 AM
 Index 7
 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
 (5.2.3790.0 (srv03_rtm.030324-2048), 18.50 KB (18,944 bytes), 3/25/2003 6:00 AM)

Name [00000008] WAN Miniport (IP)
 Adapter Type Not Available
 Product Type WAN Miniport (IP)
 Installed Yes
 PNP Device ID ROOT\MS_NDISWANIP\0000
 Last Reset 2/14/2004 11:17 AM
 Index 8
 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
 (5.2.3790.0 (srv03_rtm.030324-2048), 96.50 KB (98,816 bytes), 3/25/2003 6:00 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_{FDE1477B-FEF2-484F-9D7A-DD194791227F}] 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_{FDE1477B-FEF2-484F-9D7A-DD194791227F}] 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_{F4618C9E-7A46-4C5C-A1F1-743C65EF5CD1}] 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_{F4618C9E-7A46-4C5C-A1F1-743C65EF5CD1}] 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_{895EB6BE-D28C-4964-AEA7-949A96D8B71B}] 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_{895EB6BE-D28C-4964-AEA7-949A96D8B71B}] 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

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{D44BD543-74C4-41FE-9447-ED617C7AF6E5}] 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_{D44BD543-74C4-41FE-9447-ED617C7AF6E5}] 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

[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 0
 Maximum Output Buffer Size No
 Settable Baud Rate Yes
 Settable Data Bits Yes
 Settable Flow Control Yes
 Settable Parity Yes
 Settable Parity Check Yes
 Settable Stop Bits Yes
 Settable RLSD Yes
 Supports RLSD Yes
 Supports 16 Bit Mode No
 Supports Special Characters No

Baud Rate 9600
 Bits/Byte 8
 Stop Bits 1
 Parity None
 Busy No
 Abort Read/Write on Error No
 Binary Mode Enabled Yes
 Continue Xmit on XOff No
 CTS Outflow Control No
 Discard NULL Bytes No
 DSR Outflow Control 0
 DSR Sensitivity 0
 DTR Flow Control Type Enable
 EOF Character 0
 Error Replace Character 0
 Error Replacement Enabled No
 Event Character 0
 Parity Check Enabled No
 RTS Flow Control Type Enable
 XOff Character 19
 XOffXmit Threshold 512
 XOn Character 17
 XOnXmit Threshold 2048
 XOnXOff InFlow Control 0
 XOnXOff OutFlow Control 0
 IRQ Channel IRQ 4
 I/O Port 0x000003F8-0x000003FF
 Driver c:\windows\system32\drivers\serial.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 76.00 KB (77,824 bytes), 3/25/2003 6:00 AM)

[Parallel]

Item Value

[Storage]

[Drives]

Item Value
 Drive A:
 Description 3 1/2 Inch Floppy Drive
 Drive C:
 Description Local Fixed Disk
 Compressed No
 File System NTFS
 Size 16.95 GB (18,203,181,056 bytes)
 Free Space 13.94 GB (14,964,445,184 bytes)

Volume Name
 Volume Serial Number B8F55C4C

Drive D:
 Description CD-ROM Disc

[Disks]

Item Value
 Description Disk drive
 Manufacturer (Standard disk drives)

```

Model      COMPAQ LOGICAL VOLUME SCSI Disk Device
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus 4
SCSI Logical Unit 0
SCSI Port 2
SCSI Target ID 0
Sectors/Track 32
Size 16.95 GB (18,203,197,440 bytes)
Total Cylinders 4,357
Total Sectors 35,553,120
Total Tracks 1,111,035
Tracks/Cylinder 255
Partition Disk #0, Partition #0
Partition Size 16.95 GB (18,203,181,056 bytes)

Partition Starting Offset 16,384 bytes

[SCSI]

Item      Value
Name      Compaq Smart Array 5i Controller
Manufacturer Compaq
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_B178&SUBSYS_40800E11&REV_0
1\3&267A616A&0&20
Memory Address 0xF5F80000-0xF5FBFFFF
I/O Port 0x00002800-0x000028FF
Memory Address 0xF5DF0000-0xF5DF3FFF
IRQ Channel IRQ 31
Driver c:\windows\system32\drivers\cpqcissm.sys
(5.8.74.1 built by: Microsoft, 13.00 KB (13,312
bytes), 3/25/2003 6:00 AM)

[IDE]

Item      Value
Name      CSB5 IDE Controller
Manufacturer ServerWorks
Status OK
PNP Device ID
PCI\VEN_1166&DEV_0212&SUBSYS_02121166&REV_9
3\3&267A616A&0&79
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&1024D5C6&0&0

I/O Port 0x000001F0-0x000001F7
I/O Port 0x000003F6-0x000003F6
IRQ Channel IRQ 14
Driver c:\windows\system32\drivers\atapi.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 89.00 KB (91,136
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&1024D5C6&0&1

I/O Port 0x00000170-0x00000177
I/O Port 0x00000376-0x00000376
Driver c:\windows\system32\drivers\atapi.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 89.00 KB (91,136
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\3&267A616A&0&28 The drivers for this device are
not installed.
Base System Device
PCI\VEN_0E11&DEV_B204&SUBSYS_B2060E11&REV_0
1\3&267A616A&0&2A The drivers for this device are
not installed.

[USB]

Device      PNP Device ID
ServerWorks (RCC) PCI to USB Open Host Controller
PCI\VEN_1166&DEV_0220&SUBSYS_02201166&REV_0
5\3&267A616A&0&7A
USB Root Hub USB\ROOT_HUB\4&AF5358C&0

[Software Environment]

[System Drivers]

Name      Description      File      Type
Started      Start Mode      State
Status      Error Control      Accept Pause
Abiosdsk Abiosdsk Not Available      Kernel Driver
No      Disabled Stopped      OK
Ignore      No      No
acpi      Microsoft ACPI Driver
c:\windows\system32\drivers\acpi.sys
Kernel Driver      Yes      Boot
Running      OK      Normal      No      Yes
acpiec      ACPIEC
c:\windows\system32\drivers\acpiec.sys
Kernel Driver      No      Disabled
Stopped      OK      Normal      No      No
adpu160m adpu160m Not Available      Kernel Driver
No      Disabled Stopped      OK
Normal      No      No

```

```

adpu320 adpu320 Not Available      Kernel Driver
No      Disabled Stopped      OK
Normal      No      No
afcnt    afcnt    Not Available      Kernel Driver
No      Disabled Stopped      OK
Normal      No      No
afd      AFD Networking Support Environment
c:\windows\system32\drivers\afd.sys
Kernel Driver      Yes      Auto
Running      OK      Normal      No      Yes
aha154x Aha154x Not Available      Kernel Driver
No      Disabled Stopped      OK
Normal      No      No
aic78u2  aic78u2 Not Available      Kernel Driver
No      Disabled Stopped      OK
Normal      No      No
aic78xx  aic78xx Not Available      Kernel Driver
No      Disabled Stopped      OK
Normal      No      No
aliide   AliIde   Not Available      Kernel Driver
No      Disabled Stopped      OK
Normal      No      No
alkernel Altiris Kernel Driver
c:\windows\system32\drivers\alkernel.sys
Kernel Driver      Yes      Manual
Running      OK      Normal      No      Yes
asyncmac RAS Asynchronous Media Driver
c:\windows\system32\drivers\asyncmac.sys
Kernel Driver      No      Manual
Stopped      OK      Normal      No      No
atapi    Standard IDE/ESDI Hard Disk Controller
c:\windows\system32\drivers\atapi.sys
Kernel Driver      Yes      Boot
Running      OK      Normal      No      Yes
atdisk   Atdisk   Not Available      Kernel Driver
No      Disabled Stopped      OK
Ignore      No      No
ati2mpad ati2mpad
c:\windows\system32\drivers\ati2mpad.sys
Kernel Driver      Yes      Manual
Running      OK      Ignore      No      Yes
atmarpc  ATM ARP Client Protocol
c:\windows\system32\drivers\atmarpc.sys
Kernel Driver      No      Manual
Stopped      OK      Normal      No      No
audstub  Audio Stub Driver
c:\windows\system32\drivers\audstub.sys
Kernel Driver      Yes      Manual
Running      OK      Normal      No      Yes
b57w2k   BCM5703 Gigabit Ethernet
c:\windows\system32\drivers\b57xp32.sys
Kernel Driver      Yes      Manual
Running      OK      Normal      No      Yes
beep     Beep
c:\windows\system32\drivers\beep.sys

```

	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
cbidf2k	cbidf2k				
	c:\windows\system32\drivers\cbidf2k.sys				
	Kernel Driver	No	Disabled		
	Stopped	OK	Normal	No	No
cd20xrnt	cd20xrnt	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
cdfs	Cdfs				
	c:\windows\system32\drivers\cdfs.sys				
	File System Driver	Yes	Disabled		
	Running	OK	Normal	No	Yes
cdrom	CD-ROM Driver				
	c:\windows\system32\drivers\cdrom.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
changer	Changer	Not Available		Kernel Driver	
	No	System	Stopped	OK	
	Ignore	No	No		
clusdisk	Cluster Disk Driver				
	c:\windows\system32\drivers\clusdisk.sys				
	Kernel Driver	No	Disabled		
	Stopped	OK	Normal	No	No
cmdide	CmdIde	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
cpqarray	Cpqarray	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
cpqarray2	Cpqarray2	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
cpqcissm	cpqcissm				
	c:\windows\system32\drivers\cpqcissm.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
cpqfcalm	cpqfcalm	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
crcdisk	CRC Disk Filter Driver				
	c:\windows\system32\drivers\crcdisk.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
dac960nt	dac960nt	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
dellcerc	dellcerc	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
dfsdriver	DfsDriver				
	c:\windows\system32\drivers\dfs.sys				
	File System Driver	Yes	Boot		
	Running	OK	Normal	No	Yes

disk	Disk Driver				
	c:\windows\system32\drivers\disk.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
dmboot	dmboot				
	c:\windows\system32\drivers\dmboot.sys				
	Kernel Driver	No	Disabled		
	Stopped	OK	Normal	No	No
dmio	Logical Disk Manager Driver				
	c:\windows\system32\drivers\dmio.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
dmload	dmload				
	c:\windows\system32\drivers\dmload.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
dpti2o	dpti2o	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
fastfat	Fastfat				
	c:\windows\system32\drivers\fastfat.sys				
	File System Driver	No	Disabled		
	Stopped	OK	Normal	No	No
fdc	Floppy Disk Controller Driver				
	c:\windows\system32\drivers\fdc.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
fips	Fips				
	c:\windows\system32\drivers\fips.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
flpydisk	Floppy Disk Driver				
	c:\windows\system32\drivers\flpydisk.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
ftdisk	Volume Manager Driver				
	c:\windows\system32\drivers\ftdisk.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
gpc	Generic Packet Classifier				
	c:\windows\system32\drivers\msgpc.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
hpn	hpn	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
hpt3xx	hpt3xx	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
http	HTTP				
	c:\windows\system32\drivers\http.sys				
	Kernel Driver	Yes	Manual		

	Running	OK	Normal	No	Yes
i2omgmt	i2omgmt	Not Available		Kernel Driver	
	No	System	Stopped	OK	
	Normal	No	No		
i2omp	i2omp	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
i8042prt	i8042 Keyboard and PS/2 Mouse Port Driver				
	c:\windows\system32\drivers\i8042prt.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
iirsp	iirsp	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
imapi	CD-Burning Filter Driver				
	c:\windows\system32\drivers\imapi.sys				
	Kernel Driver	No	System		
	Stopped	OK	Normal	No	No
intelide	IntelIde	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
ipfilterdriver	IP Traffic Filter Driver				
	c:\windows\system32\drivers\ipfltdrv.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
ipinip	IP in IP Tunnel Driver				
	c:\windows\system32\drivers\ipinip.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
ipnat	IP Network Address Translator				
	c:\windows\system32\drivers\ipnat.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
ipsec	IPSEC driver				
	c:\windows\system32\drivers\ipsec.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
ipsraidn	ipsraidn	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
irenum	IR Enumerator Service				
	c:\windows\system32\drivers\irenum.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
isapnp	PnP ISA/EISA Bus Driver				
	c:\windows\system32\drivers\isapnp.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Critical	No	Yes
kbdclass	Keyboard Class Driver				
	c:\windows\system32\drivers\kbdclass.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes

ksecdd	KSecDD c:\windows\system32\drivers\ksecdd.sys Kernel Driver Yes Boot Running OK Normal No Yes	Kernel Driver Yes Manual Running OK Normal No Yes	Kernel Driver No Disabled Stopped OK Normal No No
lp6nds35	lp6nds35 Not Available Kernel Driver No Disabled Stopped OK Normal No No	Remote Access NDIS WAN Driver c:\windows\system32\drivers\ndiswan.sys Kernel Driver Yes Manual Running OK Normal No Yes	pdcomp PDCOMP Not Available Kernel Driver No Manual Stopped OK Ignore No No
mnmdd	mnmdd c:\windows\system32\drivers\mnmdd.sys Kernel Driver Yes System Running OK Ignore No Yes	NDIS Proxy c:\windows\system32\drivers\ndproxy.sys Kernel Driver Yes Manual Running OK Normal No Yes	pdframe PDFFRAME Not Available Kernel Driver No Manual Stopped OK Ignore No No
modem	Modem c:\windows\system32\drivers\modem.sys Kernel Driver No Manual Stopped OK Ignore No No	NetBIOS Interface c:\windows\system32\drivers\netbios.sys File System Driver Yes System Running OK Normal No Yes	pdreli PDRELI Not Available 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	NetBIOS over Tcpip c:\windows\system32\drivers\netbt.sys Kernel Driver Yes System Running OK Normal No Yes	pdrframe PDRFRAME Not Available Kernel Driver No Manual Stopped OK Ignore No No
mountmgr	Mount Point Manager c:\windows\system32\drivers\mountmgr.sys Kernel Driver Yes Boot Running OK Normal No Yes	nfrd960 nfrd960 Not Available Kernel Driver No Disabled Stopped OK Normal No No	perc2 perc2 Not Available Kernel Driver No Disabled Stopped OK Normal No No
mraid35x	mraid35x 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	perc2hib perc2hib Not Available Kernel Driver No Disabled Stopped OK Normal No No
mrxdav	WebDav Client Redirector c:\windows\system32\drivers\mrxdav.sys File System Driver No Manual Stopped OK Normal No No	ntfs Ntfs c:\windows\system32\drivers\ntfs.sys File System Driver Yes Disabled Running OK Normal No Yes	pptpminiport WAN Miniport (PPTP) c:\windows\system32\drivers\rasppptp.sys Kernel Driver Yes Manual Running OK Normal No Yes
mrxsmb	MRXSMB c:\windows\system32\drivers\mrxsmb.sys File System Driver Yes System Running OK Normal No Yes	null Null c:\windows\system32\drivers\null.sys Kernel Driver Yes System Running OK Normal No Yes	processor Processor Driver c:\windows\system32\drivers\processr.sys Kernel Driver Yes Manual Running OK Normal No Yes
msfs	Msfs c:\windows\system32\drivers\msfs.sys File System 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	ptilink Direct Parallel Link Driver c:\windows\system32\drivers\ptilink.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	partmgr Partition Manager c:\windows\system32\drivers\partmgr.sys Kernel Driver Yes Boot Running OK Normal No Yes	ql1080 ql1080 Not Available Kernel Driver No Disabled Stopped OK Normal No No
ndis	NDIS System Driver c:\windows\system32\drivers\ndis.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	ql10wnt ql10wnt Not Available Kernel Driver No Disabled Stopped OK Normal No No
ndistapi	Remote Access NDIS TAPI Driver c:\windows\system32\drivers\ndistapi.sys Kernel Driver Yes Manual Running OK Normal No Yes	pciide PCIide c:\windows\system32\drivers\pciide.sys Kernel Driver Yes Boot Running OK Normal No Yes	ql12160 ql12160 Not Available Kernel Driver No Disabled Stopped OK Normal No No
ndisuio	NDIS Usermode I/O Protocol c:\windows\system32\drivers\ndisuio.sys	pcmcia Pcmcia c:\windows\system32\drivers\pcmcia.sys	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
			ql12100 ql12100 Not Available Kernel Driver No Disabled Stopped OK Normal No No
			ql12200 ql12200 Not Available Kernel Driver No Disabled Stopped OK Normal No No
			ql12300 ql12300 Not Available Kernel Driver No Disabled Stopped OK Normal No No
			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
rasppoe	Remote Access PPPOE Driver c:\windows\system32\drivers\rasppoe.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
raspti	Direct Parallel c:\windows\system32\drivers\raspti.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
rdbss	Rdbss c:\windows\system32\drivers\rdbss.sys				
	File System Driver	Yes	System		
	Running	OK	Normal	No	Yes
rdpcdd	RDPcDD c:\windows\system32\drivers\rdpcdd.sys				
	Kernel Driver	Yes	System		
	Running	OK	Ignore	No	Yes
rdpdr	Terminal Server Device Redirector Driver c:\windows\system32\drivers\rdpdr.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
rdpwd	RDPWD c:\windows\system32\drivers\rdpwd.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Ignore	No	Yes
redbook	Digital CD Audio Playback Filter Driver c:\windows\system32\drivers\redbook.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
secdrv	Secdrv c:\windows\system32\drivers\secdrv.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
serenum	Serenum Filter Driver c:\windows\system32\drivers\serenum.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
serial	Serial port driver c:\windows\system32\drivers\serial.sys				
	Kernel Driver	Yes	System		
	Running	OK	Ignore	No	Yes
sfloppy	Sfloppy c:\windows\system32\drivers\sfloppy.sys				
	Kernel Driver	No	System		
	Stopped	OK	Ignore	No	No

simbad	Simbad	Not Available	Kernel Driver
	No	Disabled	Stopped
	Normal	No	No
sparrow	Sparrow	Not Available	Kernel Driver
	No	Disabled	Stopped
	Normal	No	No
srv	Srv		
	c:\windows\system32\drivers\srv.sys		
	File System Driver	Yes	Manual
	Running	OK	Normal
		No	Yes
startdss	startdss		
	c:\windows\system32\drivers\startdss.sys		
	Kernel Driver	No	Disabled
	Stopped	OK	Normal
		No	No
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
	Normal	No	No
symc8xx	symc8xx	Not Available	Kernel Driver
	No	Disabled	Stopped
	Normal	No	No
symmpi	symmpi	Not Available	Kernel Driver
	No	Disabled	Stopped
	Normal	No	No
sym_hi	sym_hi	Not Available	Kernel Driver
	No	Disabled	Stopped
	Normal	No	No
sym_u3	sym_u3	Not Available	Kernel Driver
	No	Disabled	Stopped
	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
	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		
	Normal	No	OK		
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		
	Normal	No	OK		
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		
	Ignore	No	OK		
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				
Not Available	Not Available	Not Available	Not Available		
	Not Available	Not Available	Not		
Available	Not Available	Not Available			
	HTREE\ROOT\0				
ACPI Multiprocessor PC	Yes	COMPUTER			
	5.2.3790.0	10/1/2002	(Standard		
computers)	hal.inf	Not Available			
	ROOT\ACPI_HAL\0000				
Microsoft ACPI-Compliant System	Yes				
	SYSTEM	5.2.3790.0	10/1/2002		

```

Microsoft acpi.inf Not Available
ACPI_HAL\PNP0C08\0
Processor Yes PROCESSOR 5.2.3790.0
10/1/2002 (Standard processor types)
cpu.inf Not Available
ACPI\GENUINEINTEL_-
_X86_FAMILY_15_MODEL_2\0
Processor Yes PROCESSOR 5.2.3790.0
10/1/2002 (Standard processor types)
cpu.inf Not Available
ACPI\GENUINEINTEL_-
_X86_FAMILY_15_MODEL_2\1
Processor Yes PROCESSOR 5.2.3790.0
10/1/2002 (Standard processor types)
cpu.inf Not Available
ACPI\GENUINEINTEL_-
_X86_FAMILY_15_MODEL_2\6
Processor Yes PROCESSOR 5.2.3790.0
10/1/2002 (Standard processor types)
cpu.inf Not Available
ACPI\GENUINEINTEL_-
_X86_FAMILY_15_MODEL_2\7
PCI bus Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0A03\0
ServerWorks (RCC) CMIC_LE Processor to PCI Bridge(*)
Yes SYSTEM 5.2.3790.0
10/1/2002 ServerWorks (RCC) machine.inf
Not Available
PCI\VEN_1166&DEV_0014&SUBSYS_00000000&REV_3
1\3&267A616A&0&00
ServerWorks (RCC) CMIC_LE Processor to PCI Bridge(*)
Yes SYSTEM 5.2.3790.0
Not Available
PCI\VEN_1166&DEV_0014&SUBSYS_00000000&REV_0
0\3&267A616A&0&01
ServerWorks (RCC) CMIC_LE Processor to PCI Bridge(*)
Yes SYSTEM 5.2.3790.0
10/1/2002 ServerWorks (RCC) machine.inf
Not Available
PCI\VEN_1166&DEV_0014&SUBSYS_00000000&REV_0
0\3&267A616A&0&02
RAGE XL PCI Family (Microsoft Corporation) Yes
DISPLAY 5.10.2600.6014 8/8/2001 ATI
Technologies Inc. atiixpad.inf Not Available
PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_2
7\3&267A616A&0&18
Plug and Play Monitor Yes MONITOR
5.1.2001.0 6/6/2001 (Standard
monitor types) monitor.inf Not Available
DISPLAY\AV00000\4&89B5141&80000001&00&03

Compaq Smart Array 5i Controller Yes
SCSIADAPTER 5.2.3790.0
10/1/2002 Compaq pnpacsi.inf Not
Available
PCI\VEN_0E11&DEV_B178&SUBSYS_40800E11&REV_0
1\3&267A616A&0&20
Compaq Virtual LUN Yes SYSTEM 5.2.3790.0
10/1/2002 Compaq scsudev.inf Not
Available

```

```

SCSI\OTHER&VEN_COMPAQ&PROD_SCSI_COMMUNICATE
&REV_CISS\4&14B53AE3&0&000
Disk drive Yes DISKDRIVE 5.2.3790.0
10/1/2002 (Standard disk drives)
disk.inf Not Available
SCSI\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME&RE
V_2.36\4&14B53AE3&0&400
Base System Device Not Available UNKNOWN Not
Available Not Available Not Available Not
Available Not Available
PCI\VEN_0E11&DEV_B203&SUBSYS_B2060E11&REV_0
1\3&267A616A&0&28
Base System Device Not Available UNKNOWN Not
Available Not Available Not Available Not
Available Not Available
PCI\VEN_0E11&DEV_B204&SUBSYS_B2060E11&REV_0
1\3&267A616A&0&2A
PCI standard ISA bridge Yes SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1166&DEV_0201&SUBSYS_00000000&REV_9
3\3&267A616A&0&78
ISAPNP Read Data Port Yes SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
ISAPNP\READDATAPORT\0
Motherboard resources Yes SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
ACPI\PNP0C02\0
Programmable interrupt controller Yes
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available
ACPI\PNP0000\4&35118DFF&0
System timer Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0100\4&35118DFF&0
Direct memory access controller Yes
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available
ACPI\PNP0200\4&35118DFF&0
System speaker Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0800\4&35118DFF&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&35118DFF&0
PS/2 Compatible Mouse Yes MOUSE
5.2.3790.0 10/1/2002 Microsoft
msmouse.inf Not Available
ACPI\PNP0F13\4&35118DFF&0
Extended IO Bus Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0A06\4&35118DFF&0
Communications Port Yes PORTS 5.2.3790.0
10/1/2002 (Standard port types)

```

```

msports.inf Not Available
ACPI\PNP0501\0
Standard floppy disk controller Yes FDC
5.2.3790.0 10/1/2002 (Standard
floppy disk controllers) fdc.inf Not Available
ACPI\PNP0700\5&13237358&0
Floppy disk drive Yes FLOPPYDISK
5.2.3790.0 10/1/2002 (Standard
floppy disk drives) fplydisk.inf Not Available
FDC\GENERIC_FLOPPY_DRIVE\6&1C650ESD&0&0
CSB5 IDE Controller Yes HDC 5.2.3790.0
10/1/2002 ServerWorks mshdc.inf Not
Available
PCI\VEN_1166&DEV_0212&SUBSYS_02121166&REV_9
3\3&267A616A&0&79
Primary IDE Channel Yes HDC 5.2.3790.0
10/1/2002 (Standard IDE ATA/ATAPI
controllers) mshdc.inf Not Available
PCIIDE\IDECHANNEL\4&1024D5C6&0&0
CD-ROM Drive Yes CDROM 5.2.3790.0
10/1/2002 (Standard CD-ROM drives)
cdrom.inf Not Available
IDE\CDROMCOMPAQ_CRN-
8245B_____2.19____\5&FB0C83D&0&0.0
.0
Secondary IDE Channel Yes HDC
5.2.3790.0 10/1/2002 (Standard IDE
ATA/ATAPI controllers) mshdc.inf Not Available
PCIIDE\IDECHANNEL\4&1024D5C6&0&1
ServerWorks (RCC) PCI to USB Open Host Controller Yes
USB 5.2.3790.0 10/1/2002
ServerWorks (RCC) usbport.inf Not
Available
PCI\VEN_1166&DEV_0220&SUBSYS_02201166&REV_0
5\3&267A616A&0&7A
USB Root Hub Yes USB 5.2.3790.0
10/1/2002 (Standard USB Host Controller)
usbport.inf Not Available
USB\ROOT_HUB\4&AF5358C&0
Serverworks Champion CSB5 - SouthBridge 5 LPC Yes
SYSTEM 5.2.3790.0 10/1/2002
ServerWorks (RCC) machine.inf Not
Available
PCI\VEN_1166&DEV_0225&SUBSYS_00000000&REV_0
0\3&267A616A&0&7B
ServerWorks Grand Champion CIOB_X2 - I/O Bridge 133
Mhz Yes SYSTEM 5.2.3790.0
10/1/2002 ServerWorks (RCC) machine.inf
Not Available
PCI\VEN_1166&DEV_0101&SUBSYS_00000000&REV_0
5\3&267A616A&0&88
ServerWorks Grand Champion CIOB_X2 - I/O Bridge 133
Mhz Yes SYSTEM 5.2.3790.0
10/1/2002 ServerWorks (RCC) machine.inf
Not Available
PCI\VEN_1166&DEV_0101&SUBSYS_00000000&REV_0
5\3&267A616A&0&8A
PCI bus Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0A03\1
BCM5703 Gigabit Ethernet Yes NET
2.91.0.0 10/1/2002 Narrowcom netb57xp.inf

```

Not Available			
PCI\VEN_14E4&DEV_16A7&SUBSYS_00CB0E11&REV_02\3&13C0B0C5&0&10			
PCI bus	Yes	SYSTEM	5.2.3790.0
	10/1/2002	(Standard system devices)	
machine.inf		Not Available	
ACPI\PNPOA03\2			
BCM5703 Gigabit Ethernet	Yes	NET	
	2.91.0.0	10/1/2002	Narrowcom netb57xp.inf
Not Available			
PCI\VEN_14E4&DEV_16A7&SUBSYS_00CB0E11&REV_02\3&1070020&0&10			
ACPI Thermal Zone	Yes	SYSTEM	5.2.3790.0
	10/1/2002	(Standard system devices)	
machine.inf		Not Available	
ACPI\THERMALZONE\THM0			
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			
Logical Disk Manager	Yes	SYSTEM	
	5.2.3790.0	10/1/2002	(Standard system devices)
machine.inf		Not Available	
ROOT\DMIO\0000			
Volume Manager	Yes	SYSTEM	5.2.3790.0
	10/1/2002	(Standard system devices)	
machine.inf		Not Available	
ROOT\FTDISK\0000			
Generic volume	Yes	VOLUME	5.2.3790.0
	10/1/2002	Microsoft volume.inf	Not Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURED707D7070FFSET4000LENGT43CFE8000			
AFD Networking Support Environment		Not Available	
LEGACYDRIVER		Not Available	Not Available
Available	Not Available		Not Available
Available	Not Available		Not Available
Available	ROOT\LEGACY_AFD\0000		
Altiris Kernel Driver		Not Available	
LEGACYDRIVER		Not Available	Not Available
Available	Not Available		Not Available
Available	ROOT\LEGACY_ALKERNEL\0000		
Beep	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_BEEP\0000	
CRC Disk Filter Driver		Not Available	
LEGACYDRIVER		Not Available	Not Available
Available	Not Available		Not Available
Available	ROOT\LEGACY_CRCDISK\0000		
dmbboot	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_DMBOOT\0000	
dmload	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_DMLOAD\0000	
Fips	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_FIPS\0000	
Generic Packet Classifier		Not Available	
LEGACYDRIVER		Not Available	Not Available

Available	Not Available		Not Available	Not Available
Available	ROOT\LEGACY_GPC\0000			
HTTP	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_HTTP\0000		
IPSEC driver		Not Available	LEGACYDRIVER	
	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available
	ROOT\LEGACY_IPSEC\0000			
ksecdd	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_KSECDD\0000		
mnmdd	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_MNMDD\0000		
mountmgr	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_MOUNTMGR\0000		
NDIS System Driver		Not Available	LEGACYDRIVER	
	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available		Not Available
	ROOT\LEGACY_NDIS\0000			
Remote Access NDIS TAPI Driver			Not Available	
LEGACYDRIVER		Not Available	Not Available	Not Available
Available	Not Available	Not Available		Not Available
Available	ROOT\LEGACY_NDIS\TAPI\0000			
NDIS Usermode I/O Protocol		Not Available	LEGACYDRIVER	
LEGACYDRIVER		Not Available	Not Available	Not Available
Available	Not Available	Not Available		Not Available
Available	ROOT\LEGACY_NDISUIO\0000			
NDProxy	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_NDPROXY\0000		
NetBios over Tcpi		Not Available	LEGACYDRIVER	
	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available		Not Available
	ROOT\LEGACY_NETBT\0000			
Null	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_NULL\0000		
Partition Manager		Not Available	LEGACYDRIVER	
	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available		Not Available
	ROOT\LEGACY_PARTMGR\0000			
Remote Access Auto Connection Driver			Not Available	
LEGACYDRIVER		Not Available	Not Available	Not Available
Available	Not Available	Not Available		Not Available
Available	ROOT\LEGACY_RASACD\0000			
RDPCCD	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_RDPCCD\0000		
RDPWD	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_RDPWD\0000		

startdss	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_STARTDSS\0000		
TCP/IP Protocol Driver		Not Available	LEGACYDRIVER	
	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available		Not Available
Available	ROOT\LEGACY_TCPIP\0000			
TDTCP	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_TDTCP\0000		
VGA Display Controller.		Not Available	LEGACYDRIVER	
LEGACYDRIVER		Not Available	Not Available	Not Available
Available	Not Available	Not Available		Not Available
Available	ROOT\LEGACY_VGASAVE\0000			
volsnap	Not Available	LEGACYDRIVER		Not Available
Available	Not Available	Not Available		Not Available
Available	Not Available	ROOT\LEGACY_VOLSNAP\0000		
Remote Access IP ARP Driver		Not Available	LEGACYDRIVER	
LEGACYDRIVER		Not Available	Not Available	Not Available
Available	Not Available	Not Available		Not Available
Available	ROOT\LEGACY_WANARP\0000			
Audio Codex	Yes	MEDIA	5.2.3790.0	
	10/1/2002	(Standard system devices)		
wave.inf		Not Available	ROOT\MEDIA\MS_MMACH	
Legacy Audio Drivers	Yes	MEDIA	5.2.3790.0	
	10/1/2002	(Standard system devices)		
wave.inf		Not Available	ROOT\MEDIA\MS_MMDRV	
Media Control Devices	Yes	MEDIA	5.2.3790.0	
	10/1/2002	(Standard system devices)		
wave.inf		Not Available	ROOT\MEDIA\MS_MMMCI	
Legacy Video Capture Devices	Yes	MEDIA	5.2.3790.0	
	10/1/2002	(Standard system devices)		
wave.inf		Not Available	ROOT\MEDIA\MS_MMVCD	
Video Codex	Yes	MEDIA	5.2.3790.0	
	10/1/2002	(Standard system devices)		
wave.inf		Not Available	ROOT\MEDIA\MS_MMVID	
WAN Miniport (L2TP)	Yes	NET	5.2.3790.0	
	10/1/2002	Microsoft netrasa.inf		Not Available
Available	ROOT\MS_L2TPMINIPORT\0000			
WAN Miniport (IP)	Yes	NET	5.2.3790.0	
	10/1/2002	Microsoft netrasa.inf		Not Available
Available	ROOT\MS_NDISWANIP\0000			
WAN Miniport (PPPOE)	Yes	NET	5.2.3790.0	
	10/1/2002	Microsoft netrasa.inf		Not Available
Available	ROOT\MS_PPPOEMINIPORT\0000			
WAN Miniport (PPTP)	Yes	NET	5.2.3790.0	
	10/1/2002	Microsoft netrasa.inf		Not Available
Available	ROOT\MS_PPTPMINIPORT\0000			
Direct Parallel	Yes	NET	5.2.3790.0	
	10/1/2002	Microsoft netrasa.inf		Not Available
Available	ROOT\MS_PTMINIPORT\0000			
Terminal Server Device Redirector		Yes	SYSTEM	5.2.3790.0
				10/1/2002

```

(Standard system devices) machine.inf
Not Available ROOT\RDPPDR\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 Mouse Driver Yes SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
ROOT\RDP_MOU\0000
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
Microcode Update Device Yes SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
ROOT\SYSTEM\0001

[Environment Variables]

Variable Value User Name
ComSpec %SystemRoot%\system32\cmd.exe <SYSTEM>
Path %SystemRoot%\system32;%SystemRoot%;%SystemR
oot%\System32\Wbem;C:\Program Files\Microsoft SQL
Server\80\Tools\BINN <SYSTEM>
windir %SystemRoot% <SYSTEM>
OS Windows_NT <SYSTEM>
PROCESSOR_ARCHITECTURE x86 <SYSTEM>
PROCESSOR_LEVEL 15 <SYSTEM>
PROCESSOR_IDENTIFIER x86 Family 15 Model 2
Stepping 5, GenuineIntel <SYSTEM>
PROCESSOR_REVISION 0205 <SYSTEM>
NUMBER_OF_PROCESSORS 4 <SYSTEM>
ClusterLog C:\WINDOWS\cluster\cluster.log
<SYSTEM>
PATHEXT .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF
;.WSH <SYSTEM>
TEMP %SystemRoot%\TEMP <SYSTEM>
TMP %SystemRoot%\TEMP <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
CL150\Administrator
TMP %USERPROFILE%\Local Settings\Temp
CL150\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

[Running Tasks]

Name Path Process ID Priority Min
Working Set Max Working Set Start Time
Version Size File Date
system idle process Not Available 0 0
Not Available Not Available Not
Available Not Available Not Available Not
system Not Available 4 8 0
1413120 Not Available Not Available
smss.exe Not Available 340 11
204800 1413120 2/14/2004 11:17 AM Not
Available Not Available Not Available
csrss.exe Not Available 536 13 Not
Available Not Available 2/14/2004 11:17 AM Not
Available Not Available Not Available
winlogon.exe c:\windows\system32\winlogon.exe
560 13 204800 1413120
2/14/2004 11:17 AM 5.2.3790.0
(srv03_rtm.030324-2048) 536.50 KB (549,376
bytes) 3/25/2003 6:00 AM
services.exe c:\windows\system32\services.exe
604 9 204800 1413120
2/14/2004 11:17 AM 5.2.3790.0
(srv03_rtm.030324-2048) 102.00 KB (104,448
bytes) 3/25/2003 6:00 AM
lsass.exe c:\windows\system32\lsass.exe 616 9
204800 1413120 2/14/2004 11:17 AM
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
780 8 204800 1413120
2/14/2004 11:17 AM 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
828 8 204800 1413120
2/14/2004 11:17 AM 5.2.3790.0
(srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 6:00 AM
svchost.exe Not Available 988 8
Not Available Not Available
2/14/2004 11:17 AM Not Available Not
Available Not Available
svchost.exe c:\windows\system32\svchost.exe
1072 8 204800 1413120

```

```

2/14/2004 11:17 AM 5.2.3790.0
(srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 6:00 AM
spoolsv.exe c:\windows\system32\spoolsv.exe
1296 8 204800 1413120
2/14/2004 11:17 AM 5.2.3790.0
(srv03_rtm.030324-2048) 55.00 KB (56,320 bytes)
3/25/2003 6:00 AM
msdtc.exe Not Available 1328 8 Not
Available Not Available 2/14/2004 11:17 AM Not
Available Not Available Not Available
aclnt.exe c:\program
files\altiris\aclnt\aclnt.exe 1480 8
204800 1413120 2/14/2004 11:17 AM
5.6.124 3.83 MB (4,018,252 bytes)
1/15/2004 1:36 PM
svchost.exe c:\windows\system32\svchost.exe
1516 8 204800 1413120
2/14/2004 11:17 AM 5.2.3790.0
(srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 6:00 AM
inetinfo.exe c:\windows\system32\inetinfo.exe
1584 8 204800 1413120
2/14/2004 11:17 AM 6.0.3790.0
(srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
12/2/2003 3:03 PM
svchost.exe Not Available 1788 8
Not Available Not Available
2/14/2004 11:17 AM Not Available Not
Available Not Available
dfsvc.exe c:\windows\system32\dfsvc.exe
472 8 204800 1413120
2/14/2004 11:17 AM 5.2.3790.0
(srv03_rtm.030324-2048) 130.50 KB (133,632
bytes) 3/25/2003 6:00 AM
svchost.exe c:\windows\system32\svchost.exe
1004 8 204800 1413120
2/14/2004 11:17 AM 5.2.3790.0
(srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 6:00 AM
wmiprvse.exe Not Available 1836 8
Not Available Not Available
2/14/2004 11:19 AM Not Available Not
explorer.exe c:\windows\explorer.exe
1280 8 204800 1413120
2/14/2004 11:30 AM 6.00.3790.0
(srv03_rtm.030324-2048) 1,008.50 KB (1,032,704
bytes) 3/25/2003 6:00 AM
aclntusr.exe c:\program
files\altiris\aclnt\aclntusr.exe 1656 8
204800 1413120 2/14/2004 11:30 AM 5,
6, 0, 50 176.00 KB (180,224 bytes) 1/15/2004
1:36 PM
helpctr.exe c:\windows\pchealth\helpctr\binaries\helpctr
.exe 2040 8 204800 1413120
2/14/2004 11:30 AM 5.2.3790.0
(srv03_rtm.030324-2048) 764.00 KB (782,336
bytes) 12/2/2003 1:35 PM
wmiprvse.exe Not Available 700 8
Not Available Not Available

```



```

2/14/2004 11:30 AM Not Available Not
Available Not Available
helpsvc.exe c:\windows\pchealth\helpctr\binaries\helpsv
c.exe 1688 8 204800 1413120
2/14/2004 11:30 AM 5.2.3790.0
(srv03_rtm.030324-2048) 720.00 KB (737,280
bytes) 12/2/2003 1:35 PM

[Loaded Modules]

Name Version Size File Date Manufacturer
Path
winlogon 5.2.3790.0 (srv03_rtm.030324-2048)
536.50 KB (549,376 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\winlogon.exe
ntdll 5.2.3790.0 (srv03_rtm.030324-2048)
722.50 KB (739,840 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ntdll.dll
kernel32 5.2.3790.0 (srv03_rtm.030324-2048)
965.00 KB (988,160 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\kernel32.dll
msvcrt 7.0.3790.0 (srv03_rtm.030324-2048)
319.50 KB (327,168 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\msvcrt.dll
advapi32 5.2.3790.0 (srv03_rtm.030324-2048)
559.50 KB (572,928 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\advapi32.dll
rpcrt4 5.2.3790.0 (srv03_rtm.030324-2048)
643.50 KB (658,944 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\rpcrt4.dll
user32 5.2.3790.0 (srv03_rtm.030324-2048)
562.00 KB (575,488 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\user32.dll
gdi32 5.2.3790.0 (srv03_rtm.030324-2048)
263.00 KB (269,312 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\gdi32.dll
userenv 5.2.3790.0 (srv03_rtm.030324-2048)
732.50 KB (750,080 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\userenv.dll
nddeapi 5.2.3790.0 (srv03_rtm.030324-2048)
16.00 KB (16,384 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\nddeapi.dll
crypt32 5.131.3790.0 (srv03_rtm.030324-2048)
598.00 KB (612,352 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\crypt32.dll
msasn1 5.2.3790.0 (srv03_rtm.030324-2048)
58.00 KB (59,392 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\msasn1.dll
secur32 5.2.3790.0 (srv03_rtm.030324-2048)
63.00 KB (64,512 bytes) 3/25/2003

```

```

6:00 AM Microsoft Corporation
c:\windows\system32\secur32.dll
winsta 5.2.3790.0 (srv03_rtm.030324-2048)
51.00 KB (52,224 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\winsta.dll
netapi32 5.2.3790.0 (srv03_rtm.030324-2048)
317.00 KB (324,608 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\netapi32.dll
profmap 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\profmap.dll
regapi 5.2.3790.0 (srv03_rtm.030324-2048)
48.50 KB (49,664 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\regapi.dll
ws2_32 5.2.3790.0 (srv03_rtm.030324-2048)
87.50 KB (89,600 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ws2_32.dll
ws2help 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\ws2help.dll
psapi 5.2.3790.0 (srv03_rtm.030324-2048)
21.50 KB (22,016 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\psapi.dll
version 5.2.3790.0 (srv03_rtm.030324-2048)
17.00 KB (17,408 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\version.dll
setupapi 5.2.3790.0 (srv03_rtm.030324-2048)
1,014.50 KB (1,038,848 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\setupapi.dll
msgina 5.2.3790.0 (srv03_rtm.030324-2048)
1.14 MB (1,191,936 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\msgina.dll
shsvcs 6.00.3790.0 (srv03_rtm.030324-2048)
121.50 KB (124,416 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\shsvcs.dll
shlwapi 6.00.3790.0 (srv03_rtm.030324-2048)
281.00 KB (287,744 bytes) 3/25/2003
6:00 AM 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 5.2.3790.0 (srv03_rtm.030324-2048)
133.00 KB (136,192 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\sfc_os.dll
wintrust 5.131.3790.0 (srv03_rtm.030324-2048)
161.50 KB (165,376 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wintrust.dll

```

```

ole32 5.2.3790.0 (srv03_rtm.030324-2048)
1.13 MB (1,187,328 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ole32.dll
imagehlp 5.2.3790.0 (srv03_rtm.030324-2048)
142.50 KB (145,920 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\imagehlp.dll
comctl32 6.0 (srv03_rtm.030324-2048)
907.00 KB
(928,768 bytes) 12/2/2003 7:24 AM Microsoft
Corporation
c:\windows\winsxs\x86_microsoft.windows.com
mon-controls_6595b64144ccfldf_6.0.100.0_x-
ww_8417450b\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 5.2.3790.0 (srv03_rtm.030324-2048)
17.50 KB (17,920 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wtsapi32.dll
sxs 5.2.3790.0 (srv03_rtm.030324-2048)
733.00 KB (750,592 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\sxs.dll
winmm 5.2.3790.0 (srv03_rtm.030324-2048)
166.00 KB (169,984 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\winmm.dll
shell32 6.00.3790.0 (srv03_rtm.030324-2048)
7.79 MB (8,166,400 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\shell32.dll
wldap32 5.2.3790.0 (srv03_rtm.030324-2048)
158.00 KB (161,792 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wldap32.dll
rsaenh 5.2.3790.0 (srv03_rtm.030324-2048)
176.83 KB (181,072 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\rsaenh.dll
csccdll 5.2.3790.0 (srv03_rtm.030324-2048)
99.00 KB (101,376 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\csccdll.dll
wlnotify 5.2.3790.0 (srv03_rtm.030324-2048)
87.50 KB (89,600 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wlnotify.dll
winspool 5.2.3790.0 (srv03_rtm.030324-2048)
140.00 KB (143,360 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\winspool.drv
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
comctl32 5.82 (srv03_rtm.030324-2048)
561.00 KB
(574,464 bytes) 12/2/2003 7:24 AM Microsoft
Corporation
c:\windows\winsxs\x86_microsoft.windows.com

```

```

mon-controls_6595b64144ccfldf_5.82.0.0_x-
ww_8a69ba05\comct132.dll
uxtheme 6.00.3790.0 (srv03_rtm.030324-2048)
196.00 KB (200,704 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\uxtheme.dll
samlib 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\samlib.dll
clbcatq 2001.12.4720.0 (srv03_rtm.030324-2048)
481.00 KB (492,544 bytes) 12/2/2003
1:31 PM Microsoft Corporation
c:\windows\system32\clbcatq.dll
oleaut32 5.2.3790.0 486.00 KB (497,664
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\oleaut32.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
cscui 5.2.3790.0 (srv03_rtm.030324-2048)
305.00 KB (312,320 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\cscui.dll
ntmarta 5.2.3790.0 (srv03_rtm.030324-2048)
114.00 KB (116,736 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ntmarta.dll
services 5.2.3790.0 (srv03_rtm.030324-2048)
102.00 KB (104,448 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\services.exe
scesrv 5.2.3790.0 (srv03_rtm.030324-2048)
316.50 KB (324,096 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\scesrv.dll
authz 5.2.3790.0 (srv03_rtm.030324-2048)
67.00 KB (68,608 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\authz.dll
umpnpgmr 5.2.3790.0 (srv03_rtm.030324-2048)
121.50 KB (124,416 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\umpnpgmr.dll
ncobjapi 5.2.3790.0 (srv03_rtm.030324-2048)
34.50 KB (35,328 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ncobjapi.dll
msvcpc60 6.05.2144.0 388.00 KB (397,312
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\msvcpc60.dll
eventlog 5.2.3790.0 (srv03_rtm.030324-2048)
60.50 KB (61,952 bytes) 3/25/2003
6:00 AM 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 5.2.3790.0 (srv03_rtm.030324-2048)
780.50 KB (799,232 bytes) 3/25/2003

```

```

6:00 AM Microsoft Corporation
c:\windows\system32\lsasrv.dll
samsrv 5.2.3790.0 (srv03_rtm.030324-2048)
452.00 KB (462,848 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\samsrv.dll
cryptdll 5.2.3790.0 (srv03_rtm.030324-2048)
34.00 KB (34,816 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\cryptdll.dll
dnsapi 5.2.3790.0 (srv03_rtm.030324-2048)
147.50 KB (151,040 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\dnsapi.dll
ntdsapi 5.2.3790.0 (srv03_rtm.030324-2048)
76.00 KB (77,824 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ntdsapi.dll
msprvs 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\msprvs.dll
kerberos 5.2.3790.0 (srv03_rtm.030324-2048)
332.50 KB (340,480 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\kerberos.dll
msvl_0 5.2.3790.0 (srv03_rtm.030324-2048)
127.00 KB (130,048 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\msvl_0.dll
netlogon 5.2.3790.0 (srv03_rtm.030324-2048)
409.00 KB (418,816 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\netlogon.dll
w32time 5.2.3790.0 (srv03_rtm.030324-2048)
216.00 KB (221,184 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\w32time.dll
iphlpapi 5.2.3790.0 (srv03_rtm.030324-2048)
82.50 KB (84,480 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\iphlpapi.dll
schannel 5.2.3790.0 (srv03_rtm.030324-2048)
149.50 KB (153,088 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\schannel.dll
wdigest 5.2.3790.0 (srv03_rtm.030324-2048)
61.00 KB (62,464 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wdigest.dll
rassfm 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\rassfm.dll
kdcsvc 5.2.3790.0 (srv03_rtm.030324-2048)
221.00 KB (226,304 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\kdcsvc.dll
ntdsa 5.2.3790.0 (srv03_rtm.030324-2048)
1.45 MB (1,520,640 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ntdsa.dll

```

```

ntdsatq 5.2.3790.0 (srv03_rtm.030324-2048)
32.00 KB (32,768 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ntdsatq.dll
mwssock 5.2.3790.0 (srv03_rtm.030324-2048)
254.00 KB (260,096 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\mwssock.dll
esent 5.2.3790.0 (srv03_rtm.030324-2048)
1.01 MB (1,056,256 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\esent.dll
scecli 5.2.3790.0 (srv03_rtm.030324-2048)
179.50 KB (183,808 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\scecli.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
ipsecsvc 5.2.3790.0 (srv03_rtm.030324-2048)
162.50 KB (166,400 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ipsecsvc.dll
oakley 5.2.3790.0 (srv03_rtm.030324-2048)
325.50 KB (333,112 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\oakley.dll
winipsec 5.2.3790.0 (srv03_rtm.030324-2048)
34.50 KB (35,328 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\winipsec.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 5.2.3790.0 (srv03_rtm.030324-2048)
81.00 KB (82,944 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\psbase.dll
dssenh 5.2.3790.0 (srv03_rtm.030324-2048)
131.33 KB (134,480 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\dssenh.dll
wlbctrl 5.2.3790.0 (srv03_rtm.030324-2048)
78.00 KB (79,872 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wlbctrl.dll
svchost 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\svchost.exe
rpcss 5.2.3790.0 (srv03_rtm.030324-2048)
276.50 KB (283,136 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\rpcss.dll
termsrv 5.2.3790.0 (srv03_rtm.030324-2048)
216.50 KB (221,696 bytes) 12/2/2003
1:31 PM Microsoft Corporation
c:\windows\system32\termsrv.dll
icaapi 5.2.3790.0 (srv03_rtm.030324-2048)
10.50 KB (10,752 bytes) 12/2/2003

```

1:31 PM Microsoft Corporation
 c:\windows\system32\icaapi.dll
 mstlsapi 5.2.3790.0 (srv03_rtm.030324-2048)
 104.50 KB (107,008 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\mstlsapi.dll
 activeds 5.2.3790.0 (srv03_rtm.030324-2048)
 189.00 KB (193,536 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\activeds.dll
 adslfdc 5.2.3790.0 (srv03_rtm.030324-2048)
 142.50 KB (145,920 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\adslfdc.dll
 credui 5.2.3790.0 (srv03_rtm.030324-2048)
 159.00 KB (162,816 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\credui.dll
 atl 3.05.2283 83.00 KB (84,992 bytes)
 3/25/2003 6:00 AM Microsoft Corporation
 c:\windows\system32\atl.dll
 rdpwsx 5.2.3790.0 (srv03_rtm.030324-2048)
 80.13 KB (82,056 bytes) 12/2/2003
 1:31 PM Microsoft Corporation
 c:\windows\system32\rdpwsx.dll
 wzcsvc 5.2.3790.0 (srv03_rtm.030324-2048)
 272.50 KB (279,040 bytes) 3/25/2003
 6:15 AM Microsoft Corporation
 c:\windows\system32\wzcsvc.dll
 rtutils 5.2.3790.0 (srv03_rtm.030324-2048)
 32.00 KB (32,768 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\rtutils.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 5.2.3790.0 (srv03_rtm.030324-2048)
 101.50 KB (103,936 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\dhcpcsvc.dll
 rastls 5.2.3790.0 (srv03_rtm.030324-2048)
 155.00 KB (158,720 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\rastls.dll
 cryptui 5.131.3790.0 (srv03_rtm.030324-2048)
 473.50 KB (484,864 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\cryptui.dll
 mprapi 5.2.3790.0 (srv03_rtm.030324-2048)
 81.00 KB (82,944 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\mprapi.dll
 rasapi32 5.2.3790.0 (srv03_rtm.030324-2048)
 227.50 KB (232,960 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\rasapi32.dll
 rasman 5.2.3790.0 (srv03_rtm.030324-2048)
 56.50 KB (57,856 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\rasman.dll
 tapi32 5.2.3790.0 (srv03_rtm.030324-2048)
 175.00 KB (179,200 bytes) 3/25/2003

6:00 AM Microsoft Corporation
 c:\windows\system32\tapi32.dll
 raschap 5.2.3790.0 (srv03_rtm.030324-2048)
 106.00 KB (108,544 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\raschap.dll
 schedsvc 5.2.3790.0 (srv03_rtm.030324-2048)
 176.00 KB (180,224 bytes) 12/2/2003
 1:35 PM Microsoft Corporation
 c:\windows\system32\schedsvc.dll
 wiarpc 5.2.3790.0 (srv03_rtm.030324-2048)
 30.00 KB (30,720 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wiarpc.dll
 msidle 6.00.3790.0 (srv03_rtm.030324-2048)
 5.50 KB (5,632 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\msidle.dll
 audiosrv 5.2.3790.0 (srv03_rtm.030324-2048)
 38.00 KB (38,912 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\audiosrv.dll
 wkssvc 5.2.3790.0 (srv03_rtm.030324-2048)
 125.00 KB (128,000 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wkssvc.dll
 cryptsvc 5.2.3790.0 (srv03_rtm.030324-2048)
 51.00 KB (52,224 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\cryptsvc.dll
 certcli 5.2.3790.0 (srv03_rtm.030324-2048)
 228.00 KB (233,472 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\certcli.dll
 vssapi 5.2.3790.0 (srv03_rtm.030324-2048)
 528.00 KB (540,672 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\vssapi.dll
 dmserver 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\dmserver.dll
 es 2001.12.4720.0 (srv03_rtm.030324-2048)
 221.50 KB (226,816 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\es.dll
 pchsvc 5.2.3790.0 (srv03_rtm.030324-2048)
 31.50 KB (32,256 bytes) 12/2/2003
 1:35 PM Microsoft Corporation
 c:\windows\pchealth\helpctr\binaries\pchsvc
 .dll
 srvsvc 5.2.3790.0 (srv03_rtm.030324-2048)
 89.00 KB (91,136 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\srvsvc.dll
 seclogon 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\seclogon.dll
 sens 5.2.3790.0 (srv03_rtm.030324-2048)
 35.50 KB (36,352 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\sens.dll

trkwks 5.2.3790.0 (srv03_rtm.030324-2048)
 85.00 KB (87,040 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\trkwks.dll
 wuauerv 5.4.3790.0 (srv03_rtm.030324-2048)
 10.50 KB (10,752 bytes) 12/2/2003
 1:32 PM Microsoft Corporation
 c:\windows\system32\wuauerv.dll
 wuaueng 5.4.3790.0 (srv03_rtm.030324-2048)
 188.50 KB (193,024 bytes) 12/2/2003
 1:32 PM Microsoft Corporation
 c:\windows\system32\wuaueng.dll
 advpack 6.00.3790.0 (srv03_rtm.030324-2048)
 93.50 KB (95,744 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\advpack.dll
 wininet 6.00.3790.0 (srv03_rtm.030324-2048)
 609.00 KB (623,616 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wininet.dll
 wmisvc 5.2.3790.0 (srv03_rtm.030324-2048)
 131.00 KB (134,144 bytes) 12/2/2003
 1:31 PM Microsoft Corporation
 c:\windows\system32\wbem\wmisvc.dll
 winrnrr 5.2.3790.0 (srv03_rtm.030324-2048)
 15.00 KB (15,360 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\winrnrr.dll
 comsvcs 2001.12.4720.0 (srv03_rtm.030324-2048)
 1.14 MB (1,199,616 bytes) 12/2/2003
 1:31 PM Microsoft Corporation
 c:\windows\system32\comsvcs.dll
 browser 5.2.3790.0 (srv03_rtm.030324-2048)
 70.50 KB (72,192 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\browser.dll
 rasadhlp 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\rasadhlp.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
 winhttp 5.2.3790.0 (srv03_rtm.030324-2048)
 327.50 KB (335,360 bytes) 12/2/2003
 7:24 AM Microsoft Corporation
 c:\windows\winsxs\x86_microsoft.windows.win
 http_6595b64144ccf1df_5.1.0.0_x-
 ww_e0651936\winhttp.dll
 wbemcore 5.2.3790.0 (srv03_rtm.030324-2048)
 457.00 KB (467,968 bytes) 12/2/2003
 1:31 PM Microsoft Corporation
 c:\windows\system32\wbem\wbemcore.dll
 esscli 5.2.3790.0 (srv03_rtm.030324-2048)
 235.50 KB (241,152 bytes) 12/2/2003
 1:31 PM Microsoft Corporation
 c:\windows\system32\wbem\esscli.dll
 wbemcomn 5.2.3790.0 (srv03_rtm.030324-2048)
 211.50 KB (216,576 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wbem\wbemcomn.dll

fastprox 5.2.3790.0 (srv03_rtm.030324-2048)
443.00 KB (453,632 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\wbem\fastprox.dll
wmiutils 5.2.3790.0 (srv03_rtm.030324-2048)
90.50 KB (92,672 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\wbem\wmiutils.dll
repdrvfs 5.2.3790.0 (srv03_rtm.030324-2048)
165.00 KB (168,960 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\wbem\repdrvfs.dll
wmiprvsd 5.2.3790.0 (srv03_rtm.030324-2048)
405.50 KB (415,232 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\wbem\wmiprvsd.dll
wbemess 5.2.3790.0 (srv03_rtm.030324-2048)
256.50 KB (262,656 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\wbem\wbemess.dll
ncprov 5.2.3790.0 (srv03_rtm.030324-2048)
43.00 KB (44,032 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\wbem\ncprov.dll
wbemsv 5.2.3790.0 (srv03_rtm.030324-2048)
42.50 KB (43,520 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\wbem\wbemsv.dll
sensapi 5.2.3790.0 (srv03_rtm.030324-2048)
6.00 KB (6,144 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\sensapi.dll
actxprxy 6.00.3790.0 (srv03_rtm.030324-2048)
95.00 KB (97,280 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\actxprxy.dll
netman 5.2.3790.0 (srv03_rtm.030324-2048)
209.00 KB (214,016 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\netman.dll
wzcsapi 5.2.3790.0 (srv03_rtm.030324-2048)
24.50 KB (25,088 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\wzcsapi.dll
netshell 5.2.3790.0 (srv03_rtm.030324-2048)
1.67 MB (1,747,456 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\netshell.dll
clusapi 5.2.3790.0 (srv03_rtm.030324-2048)
56.00 KB (57,344 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\clusapi.dll
netcfgx 5.2.3790.0 (srv03_rtm.030324-2048)
726.00 KB (743,424 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\netcfgx.dll
hnetcfg 5.2.3790.0 (srv03_rtm.030324-2048)
243.50 KB (249,344 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\hnetcfg.dll
wbemprox 5.2.3790.0 (srv03_rtm.030324-2048)
17.50 KB (17,920 bytes) 12/2/2003

1:31 PM Microsoft Corporation
c:\windows\system32\wbem\wbemprox.dll
wbemcons 5.2.3790.0 (srv03_rtm.030324-2048)
69.00 KB (70,656 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\wbem\wbemcons.dll
rasdlg 5.2.3790.0 (srv03_rtm.030324-2048)
642.00 KB (657,408 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\rasdlg.dll
spoolsv 5.2.3790.0 (srv03_rtm.030324-2048)
55.00 KB (56,320 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\spoolsv.exe
spoolss 5.2.3790.0 (srv03_rtm.030324-2048)
79.00 KB (80,896 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\spoolss.dll
localspl 5.2.3790.0 (srv03_rtm.030324-2048)
304.50 KB (311,808 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\localspl.dll
cnbjmon 5.2.3680.0 (Lab03_dev(skatar).020509-1043)
45.50 KB (46,592 bytes) 3/24/2003
Microsoft Corporation
c:\windows\system32\cnbjmon.dll
pjlmon 5.2.3790.0 (srv03_rtm.030324-2048)
15.00 KB (15,360 bytes) 3/24/2003
Microsoft Corporation
c:\windows\system32\pjlmon.dll
tcpmon 5.2.3790.0 (srv03_rtm.030324-2048)
44.00 KB (45,056 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\tcpmon.dll
mgmtapi 5.2.3790.0 (srv03_rtm.030324-2048)
14.00 KB (14,336 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\mgmtapi.dll
snmpapi 5.2.3790.0 (srv03_rtm.030324-2048)
17.50 KB (17,920 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\snmpapi.dll
wsnmp32 5.2.3790.0 (srv03_rtm.030324-2048)
39.50 KB (40,448 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\wsnmp32.dll
usbmon 5.2.3790.0 (srv03_rtm.030324-2048)
17.00 KB (17,408 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\usbmon.dll
wshqos 5.2.3790.0 (srv03_rtm.030324-2048)
23.00 KB (23,552 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\wshqos.dll
win32spl 5.2.3790.0 (srv03_rtm.030324-2048)
94.50 KB (96,768 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\win32spl.dll
inetpp 5.2.3790.0 (srv03_rtm.030324-2048)
71.50 KB (73,216 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\inetpp.dll

icmp 5.2.3790.0 (srv03_rtm.030324-2048)
4.50 KB (4,608 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\icmp.dll
aclient 5.6.124 3.83 MB (4,018,252 bytes)
1/15/2004 1:36 PM Altiris, Inc.
c:\program
files\altiris\aclient\aclient.exe
comdlg32 6.00.3790.0 (srv03_rtm.030324-2048)
261.00 KB (267,264 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\comdlg32.dll
wsock32 5.2.3790.0 (srv03_rtm.030324-2048)
22.00 KB (22,528 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\wsock32.dll
riched32 5.2.3790.0 (srv03_rtm.030324-2048)
3.50 KB (3,584 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\riched32.dll
riched20 5.31.23.1218 406.00 KB (415,744
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\riched20.dll
ersvc 5.2.3790.0 (srv03_rtm.030324-2048)
22.00 KB (22,528 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\ersvc.dll
inetinfo 6.0.3790.0 (srv03_rtm.030324-2048)
13.00 KB (13,312 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\inetinfo.exe
iisutil 6.0.3790.0 (srv03_rtm.030324-2048)
177.00 KB (181,248 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\inetinfo\iisutil.dll
rprexf 6.0.3790.0 (srv03_rtm.030324-2048)
4.00 KB (4,096 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\inetinfo\rprexf.dll
iisrtl 6.0.3790.0 (srv03_rtm.030324-2048)
129.00 KB (132,096 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\iisrtl.dll
iisadmin 6.0.3790.0 (srv03_rtm.030324-2048)
18.50 KB (18,944 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\inetinfo\iisadmin.dll
coadmin 6.0.3790.0 (srv03_rtm.030324-2048)
48.50 KB (49,664 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\inetinfo\coadmin.dll
admwprox 6.0.3790.0 (srv03_rtm.030324-2048)
44.00 KB (45,056 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\admwprox.dll
iiscfg 6.0.3790.0 (srv03_rtm.030324-2048)
1.06 MB (1,116,160 bytes) 12/2/2003
Microsoft Corporation
c:\windows\system32\inetinfo\iiscfg.dll
metadata 6.0.3790.0 (srv03_rtm.030324-2048)
218.50 KB (223,744 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\metadata.dll

msxml3 8.40.9419.0 1.28 MB (1,337,344 bytes)
3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\msxml3.dll

svcxext 6.0.3790.0 (srv03_rtm.030324-2048)
41.50 KB (42,496 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\svcxext.dll

security 5.2.3790.0 (srv03_rtm.030324-2048)
5.50 KB (5,632 bytes) 3/25/2003

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

iismap 6.0.3790.0 (srv03_rtm.030324-2048)
55.00 KB (56,320 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\iismap.dll

wamreg 6.0.3790.0 (srv03_rtm.030324-2048)
52.00 KB (53,248 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\wamreg.dll

w3ssl 6.0.3790.0 (srv03_rtm.030324-2048)
15.00 KB (15,360 bytes) 3/25/2003

6:00 AM Microsoft Corporation
c:\windows\system32\w3ssl.dll

strmfilt 6.0.3790.0 (srv03_rtm.030324-2048)
70.50 KB (72,192 bytes) 3/25/2003

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

httpapi 5.2.3790.0 (srv03_rtm.030324-2048)
26.50 KB (27,136 bytes) 3/25/2003

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

w3core 6.0.3790.0 (srv03_rtm.030324-2048)
329.50 KB (337,408 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\w3core.dll

w3cache 6.0.3790.0 (srv03_rtm.030324-2048)
21.00 KB (21,504 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\w3cache.dll

w3tp 6.0.3790.0 (srv03_rtm.030324-2048)
12.50 KB (12,800 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\w3tp.dll

w3dt 6.0.3790.0 (srv03_rtm.030324-2048)
36.00 KB (36,864 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\w3dt.dll

w3comlog 6.0.3790.0 (srv03_rtm.030324-2048)
9.50 KB (9,728 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\w3comlog.dll

lonsint 6.0.3790.0 (srv03_rtm.030324-2048)
11.50 KB (11,776 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\lonsint.dll

iisres 6.0.3790.0 (srv03_rtm.030324-2048)
119.50 KB (122,368 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\iisres.dll

w3isapi 6.0.3790.0 (srv03_rtm.030324-2048)
61.50 KB (62,976 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\w3isapi.dll

comadmin 2001.12.4720.0 (srv03_rtm.030324-2048)
185.00 KB (189,440 bytes) 12/2/2003

1:31 PM Microsoft Corporation
c:\windows\system32\com\comadmin.dll

mfcsubs 2001.12.4720.0 (srv03_rtm.030324-2048)
21.50 KB (22,016 bytes) 3/25/2003

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

colbact 2001.12.4720.0 (srv03_rtm.030324-2048)
57.50 KB (58,880 bytes) 12/2/2003

1:31 PM Microsoft Corporation
c:\windows\system32\colbact.dll

gzip 6.0.3790.0 (srv03_rtm.030324-2048)
23.00 KB (23,552 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\gzip.dll

dfssvc 5.2.3790.0 (srv03_rtm.030324-2048)
130.50 KB (133,632 bytes) 3/25/2003

6:00 AM Microsoft Corporation
c:\windows\system32\dfssvc.exe

resutils 5.2.3790.0 (srv03_rtm.030324-2048)
59.00 KB (60,416 bytes) 3/25/2003

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

mfc42u 6.05.3014.0 960.00 KB (983,040 bytes)
3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\mfc42u.dll

iisw3adm 6.0.3790.0 (srv03_rtm.030324-2048)
199.50 KB (204,288 bytes) 12/2/2003

3:03 PM Microsoft Corporation
c:\windows\system32\inetsrv\iisw3adm.dll

explorer 6.0.3790.0 (srv03_rtm.030324-2048)
1,008.50 KB (1,032,704 bytes) 3/25/2003

6:00 AM Microsoft Corporation
c:\windows\explorer.exe

browseui 6.0.3790.0 (srv03_rtm.030324-2048)
1.01 MB (1,057,280 bytes) 3/25/2003

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

shdocvw 6.0.3790.0 (srv03_rtm.030324-2048)
1.33 MB (1,393,664 bytes) 3/25/2003

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

apphelp 5.2.3790.0 (srv03_rtm.030324-2048)
122.00 KB (124,928 bytes) 3/25/2003

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

themeui 6.0.3790.0 (srv03_rtm.030324-2048)
360.50 KB (369,152 bytes) 3/25/2003

6:00 AM 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 5.2.3790.0 (srv03_rtm.030324-2048)
16.50 KB (16,896 bytes) 3/25/2003

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

ntshrui 6.0.3790.0 (srv03_rtm.030324-2048)
136.00 KB (139,264 bytes) 3/25/2003

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

urlmon 6.0.3790.0 (srv03_rtm.030324-2048)
501.50 KB (513,536 bytes) 3/25/2003

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

webcheck 6.0.3790.0 (srv03_rtm.030324-2048)
261.50 KB (267,776 bytes) 3/25/2003

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

stobject 5.2.3790.0 (srv03_rtm.030324-2048)
117.50 KB (120,320 bytes) 3/25/2003

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

batmeter 6.0.3790.0 (srv03_rtm.030324-2048)
28.50 KB (29,184 bytes) 3/25/2003

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

powrprof 6.0.3790.0 (srv03_rtm.030324-2048)
14.50 KB (14,848 bytes) 3/25/2003

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

shdoclc 6.0.3790.0 (srv03_rtm.030324-2048)
588.50 KB (602,624 bytes) 3/25/2003

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

printui 5.2.3790.0 (srv03_rtm.030324-2048)
536.50 KB (549,376 bytes) 3/25/2003

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

cfgmgr32 5.2.3790.0 (srv03_rtm.030324-2048)
17.50 KB (17,920 bytes) 3/25/2003

6:00 AM Microsoft Corporation
c:\windows\system32\cfgmgr32.dll

drprov 5.2.3790.0 (srv03_rtm.030324-2048)
12.50 KB (12,800 bytes) 3/25/2003

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

ntlanman 5.2.3790.0 (srv03_rtm.030324-2048)
41.00 KB (41,984 bytes) 3/25/2003

6:00 AM 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

browseic 6.0.3790.0 (srv03_rtm.030324-2048)
62.00 KB (63,488 bytes) 3/25/2003

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

```

aclntusr 5, 6, 0, 50 176.00 KB (180,224
bytes) 1/15/2004 1:36 PM c:\program
files\altiris\aclnt\aclntusr.exe
helpctr 5.2.3790.0 (srv03_rtm.030324-2048)
764.00 KB (782,336 bytes) 12/2/2003
1:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpctr
.exe
hcappres 5.2.3790.0 (srv03_rtm.030324-2048)
6.50 KB (6,656 bytes) 12/2/2003
1:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\hcappre
s.dll
itss 5.2.3790.0 (srv03_rtm.030324-2048)
119.50 KB (122,368 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\itss.dll
pchshell 5.2.3790.0 (srv03_rtm.030324-2048)
100.50 KB (102,912 bytes) 12/2/2003
1:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchshe
ll.dll
mlang 6.00.3790.0 (srv03_rtm.030324-2048)
570.00 KB (583,680 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\mlang.dll
mshtml 6.00.3790.0 (srv03_rtm.030324-2048)
2.78 MB (2,916,352 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
msimtf 5.2.3790.0 (srv03_rtm.030324-2048)
149.00 KB (152,576 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\msimtf.dll
msctf 5.2.3790.0 (srv03_rtm.030324-2048)
287.00 KB (293,888 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\msctf.dll
jscript 5.6.0.8515 436.00 KB (446,464
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\jscript.dll
msls31 3.10.349.0 147.00 KB (150,528
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\msls31.dll
imm32 5.2.3790.0 (srv03_rtm.030324-2048)
105.50 KB (108,032 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\imm32.dll
mshtml 6.00.3790.0 (srv03_rtm.030324-2048)
443.50 KB (454,144 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
vbscript 5.6.0.8515 404.00 KB (413,696
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\vbscript.dll
mfc42 6.05.3014.0 960.00 KB (983,040
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\mfc42.dll
msinfo 5.2.3790.0 (srv03_rtm.030324-2048)
358.50 KB (367,104 bytes) 12/2/2003
1:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo
.dll

```

```

helpsvc 5.2.3790.0 (srv03_rtm.030324-2048)
720.00 KB (737,280 bytes) 12/2/2003
1:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpsvc
.exe
[Services]
Display Name Name State Start Mode
Service Type Path Error Control
Start Name Tag ID
Altiris Client Service ACLient Running
Auto Own Process c:\program
files\altiris\aclnt\aclnt.exe -service
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
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 CIndexing 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
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
Distributed File System Dfs Running
Auto Own Process
c:\windows\system32\dfsrv.exe
Normal LocalSystem 0
DHCP Client Dhcp Running Auto
Share Process
c:\windows\system32\svchost.exe -k

```

```

networkservice Normal NT
AUTHORITY\NetworkService 0
Logical Disk Manager Administrative Service
dmadmin Stopped Manual Share Process
c:\windows\system32\dmadmin.exe /com
Normal LocalSystem 0
Logical Disk Manager dmserver Running
Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
DNS Client Dnscache Running Auto
Share Process
c:\windows\system32\svchost.exe -k
networkservice Normal NT
AUTHORITY\NetworkService 0
Error Reporting Service ERSvc Running
Auto Share Process
c:\windows\system32\svchost.exe -k winerr
Ignore LocalSystem 0
Event Log Eventlog Running Auto Share Process
c:\windows\system32\services.exe
Normal LocalSystem 0
COM+ Event System EventSystem Running
Manual 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 Running Manual
Share Process
c:\windows\system32\inetres\inetinfo.exe
Normal LocalSystem 0
IIS Admin Service IISADMIN Running Auto
Share Process
c:\windows\system32\inetres\inetinfo.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\ismsserv.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 mnmrsvc
Stopped Disabled Own Process
c:\windows\system32\mnmrsvc.exe
Normal LocalSystem 0
Distributed Transaction Coordinator MSDTC
Running Auto Own Process
c:\windows\system32\msdtc.exe Normal NT
AUTHORITY\NetworkService 0
Windows Installer MSIServer Stopped Manual
Share Process
c:\windows\system32\msiexec.exe /v
Normal LocalSystem 0
Network DDE NetDDE Stopped Disabled
Share Process
c:\windows\system32\netdde.exe
Normal LocalSystem 0
Network DDE DSDM NetDDEdsdm Stopped
Disabled Share Process
c:\windows\system32\netdde.exe
Normal LocalSystem 0
Net Logon Netlogon Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal
LocalSystem 0
Network Connections Netman Running Manual
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Network Location Awareness (NLA) Nla
Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
File Replication NtFrs Stopped Manual Own
Process c:\windows\system32\ntfrs.exe Ignore
LocalSystem 0
NT LM Security Support Provider NtLmSsp
Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal
LocalSystem 0
Removable Storage NtmsSvc Stopped Manual
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Plug and Play PlugPlay Running Auto
Share Process
c:\windows\system32\services.exe
Normal LocalSystem 0
IPSEC Services PolicyAgent Running
Auto 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
Stopped 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 Running
Auto 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 -k rpcss
Normal LocalSystem 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 Running Auto
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Secondary Logon seclogon Running Auto
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
Internet Connection Firewall (ICF) / 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 Running Auto Own
Process c:\windows\system32\spoolsv.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 Stopped Manual Share Process
c:\windows\system32\svchost.exe -k tapisrv
Normal LocalSystem 0
Terminal Services TermService Running
Manual Share Process
c:\windows\system32\svchost.exe -k termsvcs
Normal LocalSystem 0
Themes Themes Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Telnet TlntSvr Stopped Disabled Own Process
c:\windows\system32\tlntsvr.exe
Normal NT AUTHORITY\LocalService 0
Distributed Link Tracking Server TrkSvr
Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Distributed Link Tracking Client TrkWks
Running Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Terminal Services Session Directory Tssdis
Stopped Disabled Own Process
c:\windows\system32\tssdis.exe
Normal LocalSystem 0
Upload Manager uploadmgr Stopped Manual
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Uninterruptible Power Supply UPS Stopped
Manual Own Process
c:\windows\system32\ups.exe Normal NT
AUTHORITY\LocalService 0
Virtual Disk Service vds Stopped
Manual Own Process
c:\windows\system32\vds.exe Normal
LocalSystem 0

```

```

Volume Shadow Copy VSS Stopped Manual Own
Process c:\windows\system32\svsvc.exe Normal
LocalSystem 0
Windows Time W32Time Running Auto
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
World Wide Web Publishing Service W3SVC
Running Auto Share Process
c:\windows\system32\svchost.exe -k iissvcs
Normal LocalSystem 0
WebClient WebClient Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k
localservice Normal NT
AUTHORITY\LocalService 0
WinHTTP Web Proxy Auto-Discovery Service
WinHttpAutoProxySvc Stopped Manual
Share Process
c:\windows\system32\svchost.exe -k
localservice Normal NT
AUTHORITY\LocalService 0
Windows Management Instrumentation winmgmt
Running Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs
Ignore LocalSystem 0
Portable Media Serial Number Service WndmPmSN
Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Windows Management Instrumentation Driver Extensions
Wmi Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
WMI Performance Adapter WmiApSrv Stopped
Manual Own Process
c:\windows\system32\wbem\wmiaprv.exe
Normal LocalSystem 0
Automatic Updates wuauclnt Running Auto
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Wireless Configuration WZCSVC Running
Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0

[Program Groups]

Group Name Name User Name
Accessories Default User:Accessories
Default User
Accessories\Accessibility Default
User:Accessories\Accessibility Default User
Accessories\Entertainment Default
User:Accessories\Entertainment Default User
Startup Default User:Startup Default User
Accessories All Users:Accessories All
Users
Accessories\Accessibility All
Users:Accessories\Accessibility All Users

```

```

Accessories\Communications All
Users:Accessories\Communications All Users
Accessories\Entertainment All
Users:Accessories\Entertainment All Users
Accessories\System Tools All
Users:Accessories\System Tools All Users
Administrative Tools All
Users:Administrative Tools All Users
Microsoft SQL Server All Users:Microsoft SQL
Server All Users
Startup All Users:Startup All Users
Accessories NT AUTHORITY\SYSTEM:Accessories
NT AUTHORITY\SYSTEM
Accessories\Accessibility NT
AUTHORITY\SYSTEM:Accessories\Accessibility NT
AUTHORITY\SYSTEM
Accessories\Entertainment NT
AUTHORITY\SYSTEM:Accessories\Entertainment NT
AUTHORITY\SYSTEM
Startup NT AUTHORITY\SYSTEM:Startup NT
AUTHORITY\SYSTEM
Accessories CL150\Administrator:Accessories
CL150\Administrator
Accessories\Accessibility
CL150\Administrator:Accessories\Accessibili
ty CL150\Administrator
Accessories\Entertainment
CL150\Administrator:Accessories\Entertainme
nt CL150\Administrator
Administrative Tools
CL150\Administrator:Administrative Tools
CL150\Administrator
Startup CL150\Administrator:Startup
CL150\Administrator

[Startup Programs]

Program Command User Name Location
desktop desktop.ini NT AUTHORITY\SYSTEM
Startup
desktop desktop.ini CL150\Administrator
Startup
desktop desktop.ini .DEFAULT Startup
desktop desktop.ini All Users Common
Startup
ACIntUsr c:\program
files\altiris\aclnt\aclntusr.exe All Users
HKLMSOFTWARE\Microsoft\Windows\CurrentVers
ion\Run

[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

```

```

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 6.0.3790.0
Build 63790
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 6.0.3790.0 95 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
advpack.dll 6.0.3790.0 94 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
asctrls.ocx 6.0.3790.0 90 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
browselc.dll 6.0.3790.0 62 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
browseui.dll 6.0.3790.0 1,033 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
cdfview.dll 6.0.3790.0 144 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
comctl32.dll 5.82.3790.0 561 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
dxtrans.dll 6.3.3790.0 198 KB
3/25/2003 6:00:00 AM

```



```

C:\WINDOWS\system32 Microsoft Corporation
dxtmsft.dll      6.3.3790.0      344 KB
3/25/2003 6:00:00 AM
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    16.0.3790.0     300 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iepeers.dll     6.0.3790.0      230 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iesetup.dll     6.0.3790.0      59 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
ieuinit.inf     Not Available   20 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Not Available
iexplore.exe    6.0.3790.0      90 KB
3/25/2003 6:00:00 AM
C:\Program
Files\Internet Explorer Microsoft Corporation
imgutil.dll     5.2.3790.0      35 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inetcpl.cpl     6.0.3790.0      303 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inetcplc.dll    6.0.3790.0      109 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inseng.dll     6.0.3790.0      72 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mlang.dll 6.0.3790.0      570 KB 3/25/2003
6:00:00 AM C:\WINDOWS\system32 Microsoft
Corporation
msencode.dll    2002.10.4.0     112 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Not Available
mshta.exe 6.0.3790.0      26 KB 3/25/2003
6:00:00 AM C:\WINDOWS\system32 Microsoft
Corporation
mshtml.dll     6.0.3790.0      2,848 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.tlb     6.0.3790.0      1,319 KB
3/25/2003 6:00:00 AM

```

```

C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll     6.0.3790.0      444 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll     6.0.3790.0      55 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msident.dll    6.0.3790.0      47 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msidentld.dll  6.0.3790.0      15 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msieftp.dll    6.0.3790.0      230 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msrating.dll   6.0.3790.0      132 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mstime.dll     6.0.3790.0      491 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
occache.dll    6.0.3790.0      89 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
proctexe.ocx   6.3.3790.0      78 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Intel Corporation
sendmail.dll   6.0.3790.0      52 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdoclc.dll    6.0.3790.0      589 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdocvw.dll    6.0.3790.0      1,361 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shfolder.dll   6.0.3790.0      23 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shlwapi.dll    6.0.3790.0      281 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
tdc.ocx 1.3.0.3130     58 KB 3/25/2003
6:00:00 AM C:\WINDOWS\system32 Microsoft
Corporation
url.dll 6.0.3790.0      36 KB 3/25/2003
6:00:00 AM C:\WINDOWS\system32 Microsoft
Corporation

```

```

urlmon.dll     6.0.3790.0      502 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
webcheck.dll   6.0.3790.0      262 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
wininet.dll    6.0.3790.0      609 KB
3/25/2003 6:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation

[Connectivity]
Item      Value
Connection Preference      Never dial

LAN Settings
AutoConfigProxy      Not Available
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\NetworkService\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	Medium-low
Trusted sites	Medium
Internet	High
Restricted sites	High

Microsoft SQL Server 2000 Installation Procedures

Microsoft SQL Server 2000 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

SQL Server Agent - local system account

Set the sort order/collation as SQL Collation binary

sort order/Latin_1_General

Microsoft COM Component Configuration Parameters

The component services tool in Windows 2000 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 70. Delivery threads were set under the TPCC key

in the registry. The construction string was Dummy String

Appendix D: 60-Day Space

TPC-C 60 Day Space Requirements

Warehouses	9,792				TpmC	123,027.42
Table	Rows	Data KB	Index KB	Extra 5% KB	8hr Space	Total Space KB
Warehouse	9,792	1,048	64	56		1168
District	97,920	10,888	88	549		11525
Customer	293,760,000	213,643,640	12,739,024	11,319,133		237701797
History	293,760,000	16,320,008	56		3,327,961	16320064
New_order	88,128,000	1,393,336	3,224	69,828		1466388
Orders	293,760,000	9,004,144	4,094,448		15,789,354	13098592
Order_line	2,937,594,567	183,599,664	388,624		41,262,588	183988288
Item	100,000	9,528	80	480		10088
Stock	979,200,000	313,344,008	585,280	15,696,464		329625752
Total		737,326,264	17,810,888	27,086,510	60,379,903	782,223,662
MB						
Dynamic Space	204,027	Sum of Data for Order, Orderline and History				
Static Space	559,863	Sum of Data+Index+5%-Dynamic Space				
Free Space	na	Total Allocated Spac - (Dynamic + Static Space)				
Daily Growth	41,015	(Dynamic Space/(W*62.5))*tpmc				
Daily Spread	-	(Free Space -1.5*Daily Growth) Zero Assumed				
60 Day Space MB	3,020,739					
60 Day Space GB	2,949.94	GB				
Log Size	325,000.00	MB				
KB Per New Order	4.91	KB				
8 hr log MB	283,055	MB				
8 hr log GB	276.4208	GB				
Space Usage	GB Needed	Disks Measured	GB Priced	Disk Size	Formatted Size	
60 Day Space DB	2,949.94	392	13288.80	36.4GB	33.900	
			0.00			
			0.00			
Total DB			13288.80			
8-hr log + mirror	552.8416	10	678.36	72.8GB	67.84	
OS, Swap	3	1	33.90	36.4GB	33.900	
Total Storage	3,505.78	GB	14,001.06	GB		

MSSQL_misc	MSSQL_cs_fg	
1168		
11525		
19648025	237701797	
1466388		
28887946		
225250876		
10088		
329625752		
275,276,016	567,327,550	
files=	7	7
size=	5,184,000	11,852,800
Total=	36,288,000	82,969,600
8K blocks	290,304,000	663,756,800
	OK	OK

tpmC	123,027.42									
	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	16,320,008	56	17,657,064	208	1,337,056	152	1,337,208	0.0564	3,327,961.10	3,249.96
Order	9,004,144	4,094,448	11,228,544	8,214,368	2,224,400	4,119,920	6,344,320	0.2674	15,789,353.75	15,419.29
Order-Line	183,599,664	388,624	199,790,552	777,456	16,190,888	388,832	16,579,720	0.6987	41,262,588.29	40,295.50
										58,964.75
	sum(*) Before		sum(*) After		Num New-					
d_next_o_id	293,857,920		317,586,070		23,728,150					
	Before MB		After MB		Grow MB			KB/New-Order	8-Hr Growth MB	8-Hr Growth GE
Log	3766.45		117500.75		113734.29			4.9083	283,054.92	276.42
								5,026.0577	bytes	
	325000	1.1589088		36.154076						
Database tpc 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

April 27, 2004

Hewlett-Packard Company
David Adams
PO Box 692000
MS150402
Houston, TX 77070

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
810-00846	SQL Server 2000 Enterprise Edition <i>Per processor licensing</i> <i>Discount Schedule: Open Program Level C</i> <i>Unit Price reflects a 17% discount from the retail unit price of \$19,999.</i>	\$16,541	4	\$66,164
P73-00295	Windows Server 2003, Standard Edition <i>Server license only - No CALs</i> <i>Discount Schedule: Open Program - No Level</i> <i>Unit Price reflects a 26% discount from the retail unit price of \$999.</i>	\$738	6	\$4,428
P72-00264	Windows Server 2003, Enterprise Edition <i>Server license only - No CALs</i> <i>Discount Schedule: Open Program - No Level</i> <i>Unit Price reflects a 40% discount from the retail unit price of \$3,999.</i>	\$2,399	1	\$2,399
254-00170	Visual C++ Standard <i>No discounts applied</i>	\$109	1	\$109
PRO-PRORS-16U-01	Database Server Support Package <i>1 Year Term</i>	\$1,950	3	\$5,850

All products are currently orderable through Microsoft's normal distribution channels.

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: PCdaad0427045946

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