



Hewlett-Packard Company

TPC Benchmark™ C
Full Disclosure Report
for
ProLiant ML350T03 X2.8/1MB
using
Microsoft SQL Server 2000 Enterprise Edition
and
Microsoft Windows Server 2003, Enterprise Edition

Second Edition
March 2004

Second Edition – March 2004

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Preface

The TPC Benchmark C was developed by the Transaction Processing Performance Council (TPC). The TPC was founded to define transaction processing benchmarks and to disseminate objective, verifiable performance data to the industry. This full disclosure report is based on the TPC Benchmark C Standard Specifications Version 5.2, released December 2003.

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 ML350T03. The operating system used for the benchmark was Microsoft Windows Server 2003, Enterprise Edition. The DBMS used was Microsoft SQL Server 2000 Enterprise Edition.

TPC Benchmark C Metrics

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

28,711 tpmC
\$2.14 per tpmC

The availability date is March 17, 2004.

Standard and Executive Summary Statements

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

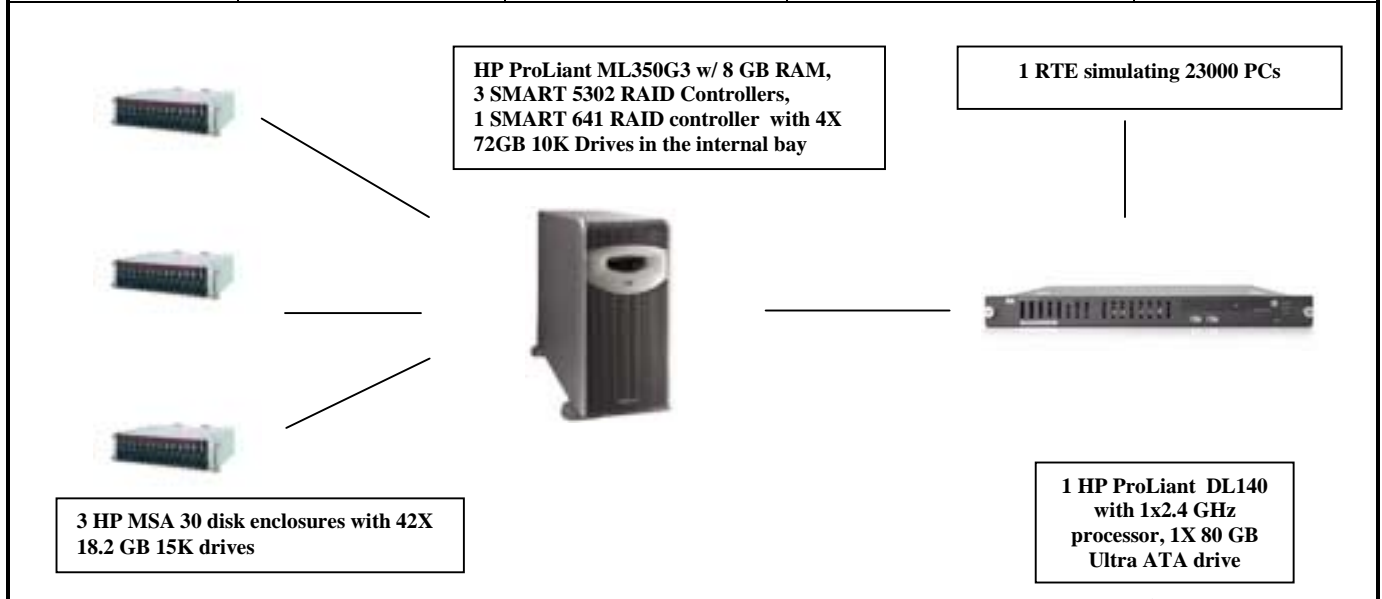
Auditor

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

Hewlett Packard	ProLiant ML350T03 X2.8/1MB	TPC-C Rev. 5.2
Company	C/S with ProLiant DL140	Report Date: Mar. 2, 2004

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$61,399	28,711	\$2.14	March 17, 2004

Processors	Database Manager	Operating System	Other Software	Number of Users
1 Intel Xeon 2.8 GHz – 1M L3 cache – Server 1 Intel Xeon 2.4 GHz – Client	Microsoft SQL Server 2000 Enterprise Edition SP3	Microsoft Windows Server 2003, Enterprise Edition	Microsoft Visual C++ Microsoft COM+	23000



	Server		Each Client	
System Components	Quantity	Description	Quantity	Description
Processor	1	2.8 GHz Intel Xeon w/ 1M Cache	1	2.4 GHz Intel Xeon w/ 256K cache
Memory	4	2048 MB DDR	1	1 GB (2x 512 MB)
Disk Controllers	1	SMART 641 Array Controller	1	Integrated Dual Channel Ultra ATA-100 IDE Controller
	5	SMART 5302 Array Controller		
Disk Drives	4	72.8 GB SCSI Drives	1	80 GB Ultra ATA Drive
	43	18.2 GB SCSI Drives		
Total Storage		1073.8 GB		80 GB
Backup Storage	1	DVD+R/DVD+RW drive		

Hewlett-Packard	HP ProLiant ML350 G3 1P		TPC-C Rev. 5.2			
Company	Client/Server		Report Date:		2-Mar-04	
Description	Part Number	Third Party	Unit Price	Qty	Extended Price	3 yr. Maint. Price
Server Hardware						
Brand Pricing						
ML350T03 X2.8 1MB Cache, 512MB, Smart Array 641 integrated Gigabit NIC, integrated dual channel SCSI	359349-001		2,249	1	2,249	
4GB PC2100 DDR SDRAM DIMM 2x2048	300682-B21		3,499	2	6,998	
2-Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage	244059-B21		370	1	370	
StorageWorks MSA30 Storage Enclosure - Rack-mountable	302969-B21		2,978	3	8,934	
Smart Array 5302/128 Controller	283552-B21		1,299	3	3,897	
S5500 15 carbon / silver monitor	261602-001		129	1	129	
Pro UPS 500 (500VA/300 Watts; 110-127 VAC, 60Hz)	136386-001		146	1	146	
18GB 15K U320 Pluggable Hard Drive	286775-B22		269	42	11,298	
18GB 15K U320 Pluggable Hard Drive (10% spares)	286775-B22		269	5		1,345
18GB 15K U320 Pluggable Hard Drive (OS)	286775-B22		269	1	269	
72.8GB 10Krpm U320 UNI HDD (internal log)	286714-B22		429	4	1,716	
HP DVD Writer dvd420i	Q2133A#ABA		180	1	180	
HP CP 3 Years 4 Hours 24 Hour x 7 Days HW 300 Srs	162657-002		949	1		949
FM-4E724-36 3YR 24X7/4HR EMPTY DISK ENCL	171242-002		157	3		471
Subtotal					36,186	2,765
Server Software						
Database Server Support Package	-PRORS-16U-01	Microsoft	2	1,950	3	5,850
SQL Server 2000 Enterprise Edition 32-bit	810-00961	Microsoft	2	17,279	1	Incl Above
Visual C++ .Net Standard	254-00170	Microsoft	2	109	1	Incl Above
Windows Server 2003 Enterprise Edition	P72-00264	Microsoft	2	2,399	1	Incl Above
Subtotal					19,787	5,850
Client Hardware						
ProLiant DL140 2.4GHz, 512MB , Two integrated Gigabit NIC, internal 80 GB ATA drive	350534-B21		1,149	1	1,149	
S5500 15 carbon / silver monitor	261602-001		129	1	129	
PS/2 Standard Keyboard	DU734AV#ABA		10	1	10	
HP PS/2 scroll mouse carbonite 2-Button	DC261AV		5	1	5	
HP CPe 3 Years 4 Hours 24 Hour x 7 Day HW DL140	351584-001		478	1		478
Subtotal					1,293	478
Client Software						
Windows 2000 Server 32-bit	C11-00821	Microsoft	2	738	1	Incl. Above
Subtotal					738	0
User Connectivity						
7 ft. CAT5e Patch cable	CBLC57	LanAdapter:	3	1	3	
Subtotal					3	0
Large Purchase and Net 30 discount (See Note 1)	14.0%				(\$5,247)	(\$454)
Total					\$52,760	\$8,639
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: \$61,399	
					tpmC Rating: 28,711.00	
					\$/ tpmC: \$2.14	
Pricing: 1=HP 2=Microsoft 3=LanAdapters.com						
Note 1 = Discount based on HP Direct guidance with large purchase and Net 30 discount.						
Note: The benchmark results and test methodology were audited by Lorna Livingtree of Performance Metrics, Inc.						

Numerical Quantities Summary

MQTH, Computed Maximum Qualified Throughput

28,711 tpmC

Response Times (in seconds)	Average	90%	Maximum
New-Order	0.38	0.56	5.28
Payment	0.23	0.36	3.30
Order-Status	0.31	0.46	5.38
Delivery (interactive portion)	0.10	0.11	0.18
Delivery (deferred portion)	0.41	0.66	2.08
Stock-Level	1.70	2.30	6.50
Menu	0.11	0.12	0.35

Transaction Mix, in percent of total transaction

New-Order	44.88%
Payment	43.04%
Order-Status	4.03%
Delivery	4.03%
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	18.01/12.11	18.03/121.12
Payment	3.00/0.00	3.01/12.11	3.03/121.12
Order-Status	2.00/0.00	2.01/10.54	2.03/105.50
Delivery (interactive)	2.00/0.00	2.01/5.10	2.03/50.82
Stock-Level	2.00/0.00	2.01/5.09	2.03/50.81

Test Duration

Ramp-up time	42 minutes
Measurement interval	120 minutes
Transactions (all types) completed during measurement interval	7,952,174
Ramp down time	50 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.

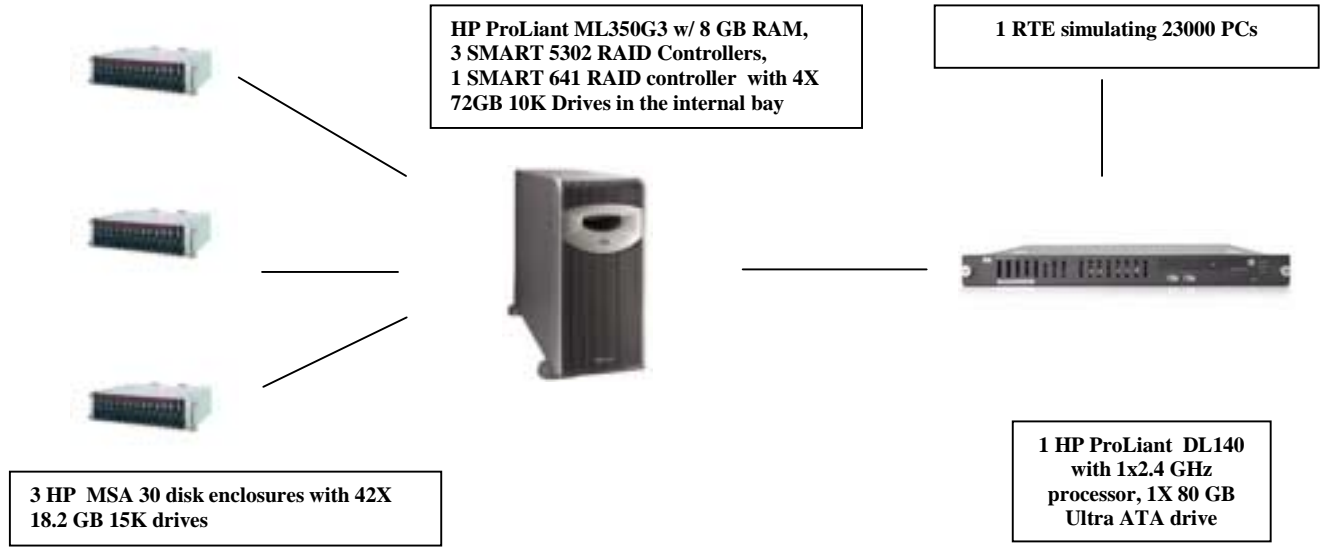
Appendix C contains the tunable parameters to for the database, the operating system, and the transaction monitor.

Configuration Items

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

The configuration diagrams for both the tested and priced systems are included on the following pages.

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: 42 18.2 GB 15K drives for the database data connected to 3 SMART 5302 RAID controllers and 4 72.8 GB 10K drives for the operating system and the transaction log connected to the embedded SMART array controller..

Benchmarked Configuration:

Integrated Dual Channel SCSI Controller

<u>LOGICAL DRIVE C:</u> Microsoft Windows Server 2003 Enterprise Edition, MSSQL_tpcc_root.mdf	<u>Total Capacity = 16.94 GB</u>	
SMART 641 Controller, Slot 1, Array A		
<u>LOGICAL DRIVE E:</u> MSSQL_tpcc_log	<u>Total Capacity = 135.66 GB</u>	<u>RAID 0+1</u>
SMART-5302 Controller, Slot 2, Array A		
<u>LOGICAL DRIVE F:</u> MSSQL_cs1	<u>Total Capacity = 45.92 GB</u>	<u>RAID 0</u>
SMART-5302 Controller, Slot 2, Array A		
<u>LOGICAL DRIVE I:</u> MSSQL_misc1	<u>Total Capacity = 22.36 GB</u>	<u>RAID 0</u>
SMART-5302 Controller, Slot 2, Array A		
<u>LOGICAL DRIVE X:</u> Backup1	<u>Total Capacity = 84.56 GB</u>	<u>RAID 0+1</u>
SMART-5302 Controller, Slot 3, Array A		
<u>LOGICAL DRIVE G:</u> MSSQL_cs2	<u>Total Capacity = 45.92 GB</u>	<u>RAID 0</u>
SMART-5302 Controller, Slot 3, Array A		
<u>LOGICAL DRIVE J:</u> MSSQL_misc2	<u>Total Capacity = 22.36 GB</u>	<u>RAID 0</u>
SMART-5302 Controller, Slot 3, Array A		
<u>LOGICAL DRIVE Y:</u> Backup2	<u>Total Capacity = 84.56 GB</u>	<u>RAID 0+1</u>
SMART-5302 Controller, Slot 4, Array A		
<u>LOGICAL DRIVE H:</u> MSSQL_cs3	<u>Total Capacity = 45.92 GB</u>	<u>RAID 0</u>

SMART-5302 Controller, Slot 4, Array A

LOGICAL DRIVE K: Total Capacity = 22.36 GB RAID 0
MSSQL_misc3

SMART-5302 Controller, Slot 4, Array A

LOGICAL DRIVE Z: Total Capacity = 84.56 GB RAID 0+1
Backup3

Priced Configuration vs. Measured Configuration:

The measured and priced configuration differ in that the measured configuration used disk drives for database backup and the priced configuration used a DVD recorder drive for backup.

Insert and Delete Operations

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

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

Partitioning

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

No partitioning was used in this benchmark.

Replication, Duplication or Additions

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

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

Clause 2 Related Items

Random Number Generation

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

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

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

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

Input/Output Screen Layout

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

All screen layouts followed the specifications exactly.

Priced Terminal Feature Verification

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

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

Presentation Manager or Intelligent Terminal

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

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

Transaction Statistics

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

Table 2.1 Transaction Statistics

Statistic		Value
New Order	Home warehouse order lines	99.00%
	Remote warehouse order lines	1.00%
	Rolled back transactions	1.01%
	Average items per order	10.00
Payment	Home warehouse payments	84.99%
	Remote warehouse payments	15.01%

Statistic		Value
	Accessed by last name	60.01%
Order Status	Accessed by last name	60.12%
Transaction Mix	New Order	44.88%
	Payment	43.04%
	Order status	4.03%
	Delivery	4.03%
	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 that 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 on a fully scaled database of 235 warehouses under a full load of 2350 users:

- The full database (235 warehouses) was started.
- 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 2350 users.
- The test was allowed to run for a minimum of 5 minutes.
- One log disk was removed from the server.
- 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 a drive cabinet.
- When Microsoft SQL Server recorded errors about not being able to access the database, the RTE and SQL Server was shut down.
- A new log disk was inserted into the server. 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.
- A dump of the transaction log was taken and the Microsoft SQL Server was shutdown.
- 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 2350 warehouses under a full load of 23000 users (only 2300 warehouses were used in the test). The following steps were executed:

- The full database was started.
- 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 23000 users.
- The test was allowed to run for a minimum of 5 minutes.
- A checkpoint was performed.
- The system crash and loss of memory were induced by physically removing the power cord from the SUT. 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 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 10 and 11 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	2,350
District	23,500
Customer	70,500,000
History	70,500,000
Orders	70,500,000
New Order	21,150,000
Order Line	705,005,096
Stock	235,000,000
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 3 SMART-5302 Array controllers with 2 SCSI channels and a SMART 641 Array controller with 1 SCSI channel. Each controller is capable of accessing up to 14 disk drives per channel, and supports RAID 0, RAID 0+1, and RAID 5 per each logical volume configured. The data tables were stored on 3 RAID arrays of (14) 18.2GB 15K drives each. Each of the controllers had 2 RAID 0 logical drives for storing data tables and a RAID 0+1 logical drive used for backup of the database. The SMART 641 Array controller had one array consisting of (4) 72.8 GB 10K drives with a RAID 0+1 logical volume for the database log. The Array Accelerators on the data controllers were configured as 100% write cache and were enabled for all logical drives on these controllers. The logical drive for the transaction log had the cache disabled. All RAID volumes used hardware RAID. The OS was installed onto one 18.2 GB 15K drive that was attached to the embedded dual channel SCSI controller.

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

Type of Database

A statement must be provided that describes:

- The data model implemented by DBMS used (e.g. relational, network, hierarchical).
- The database interface (e.g. embedded, call level) and access language (e.g. SQL, DL/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 28,711 tpmC
Price per tpmC \$2.14 per 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	0.38	0.56	5.28
Payment	0.23	0.36	3.30
Order-Status	0.31	0.46	5.38
Interactive Delivery	0.10	0.11	0.18
Deferred Delivery	0.41	0.66	2.08
Stock-Level	1.70	2.30	6.50
Menu	0.11	0.12	0.35

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	18.01	18.03
Payment	3.00	3.01	3.03
Order-Status	2.00	2.01	2.03
Interactive Delivery	2.00	2.01	2.03
Stock-Level	2.00	2.01	2.03

Table 5.4: Think Times

Type	Minimum	Average	Maximum
New-Order	0.00	12.11	121.12
Payment	0.00	12.11	121.12
Order-Status	0.00	10.54	105.50
Interactive Delivery	0.00	5.10	50.82
Stock-Level	0.00	5.09	50.81

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 3. New Order Response Time Distribution

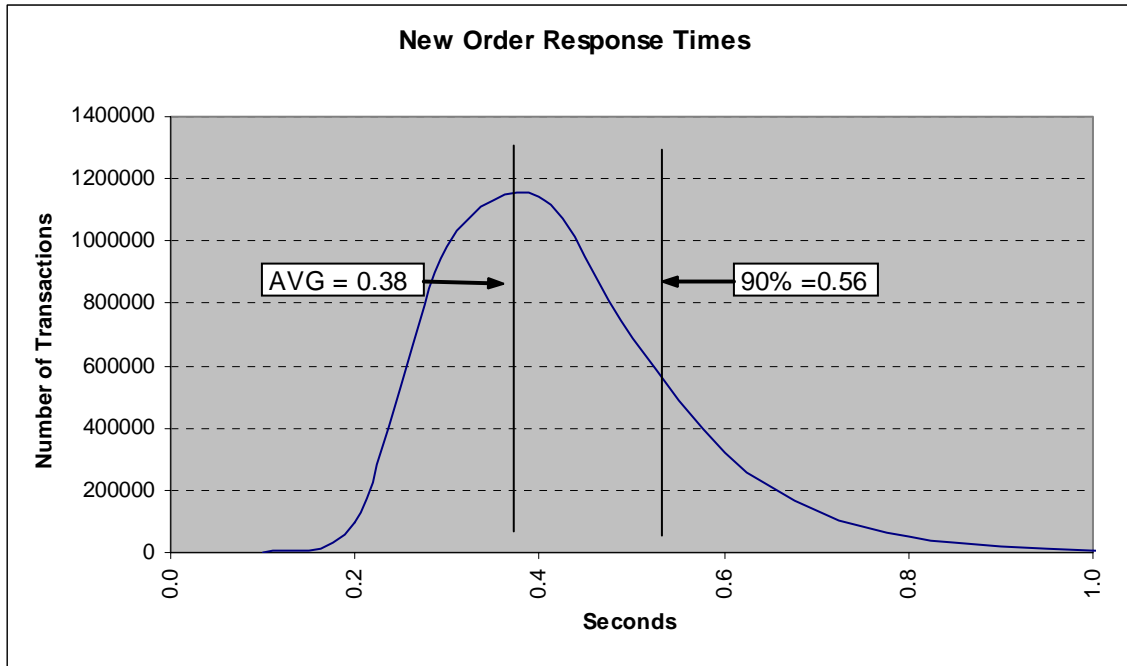


Figure 4. Payment Response Time Distribution

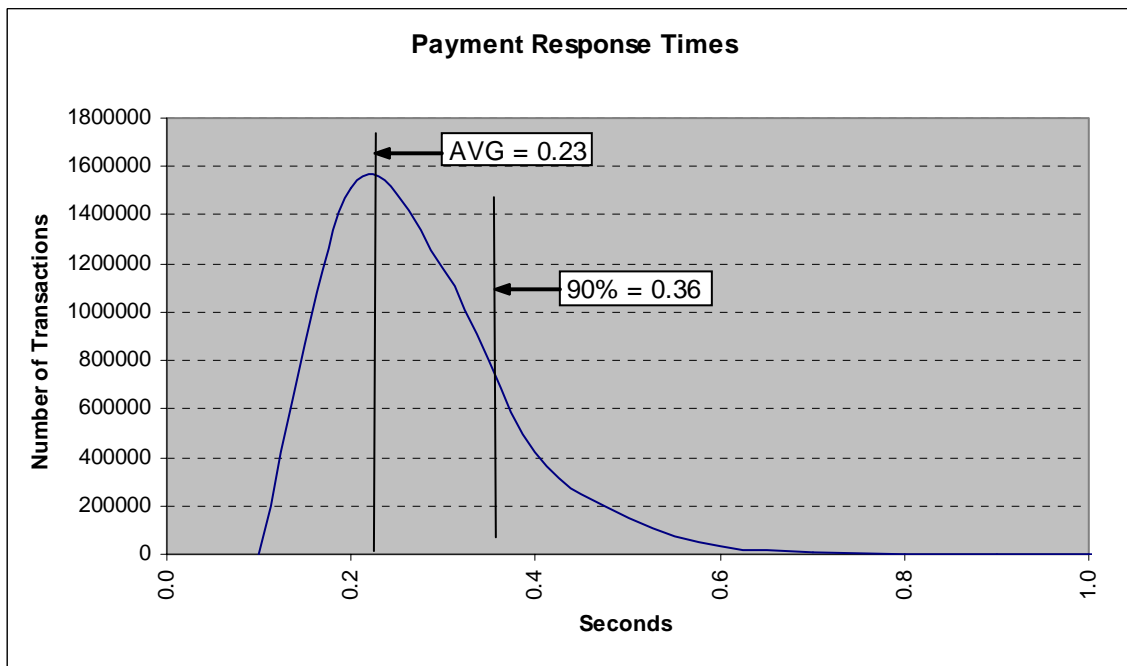


Figure 5. Order Status Response Time Distribution

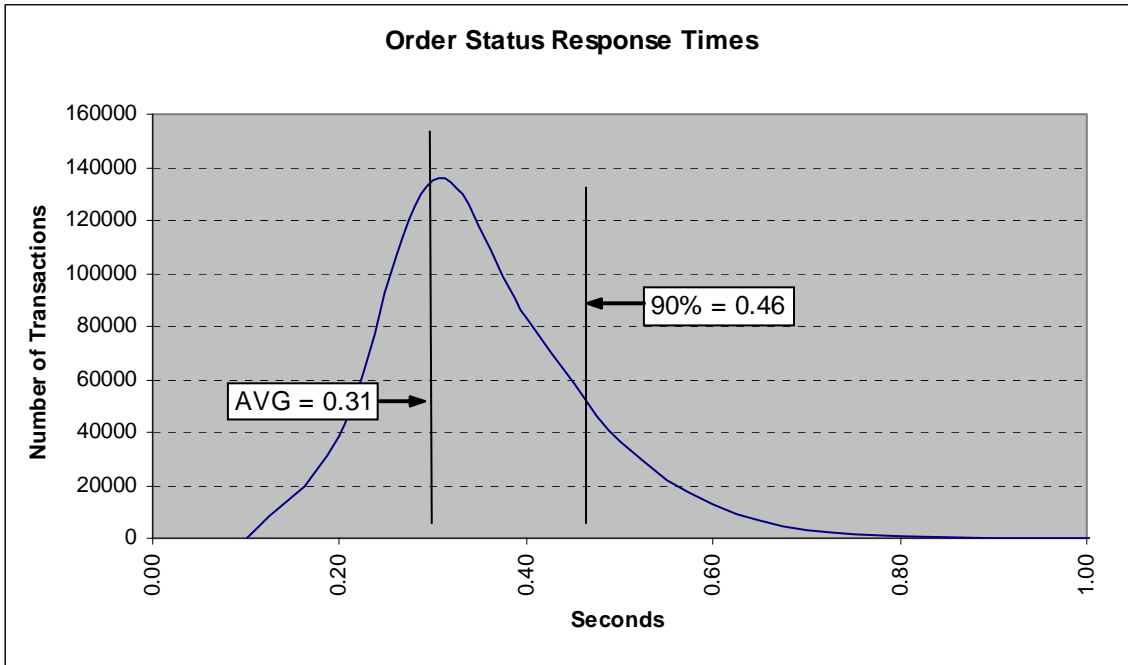


Figure 6. Delivery Response Time Distribution

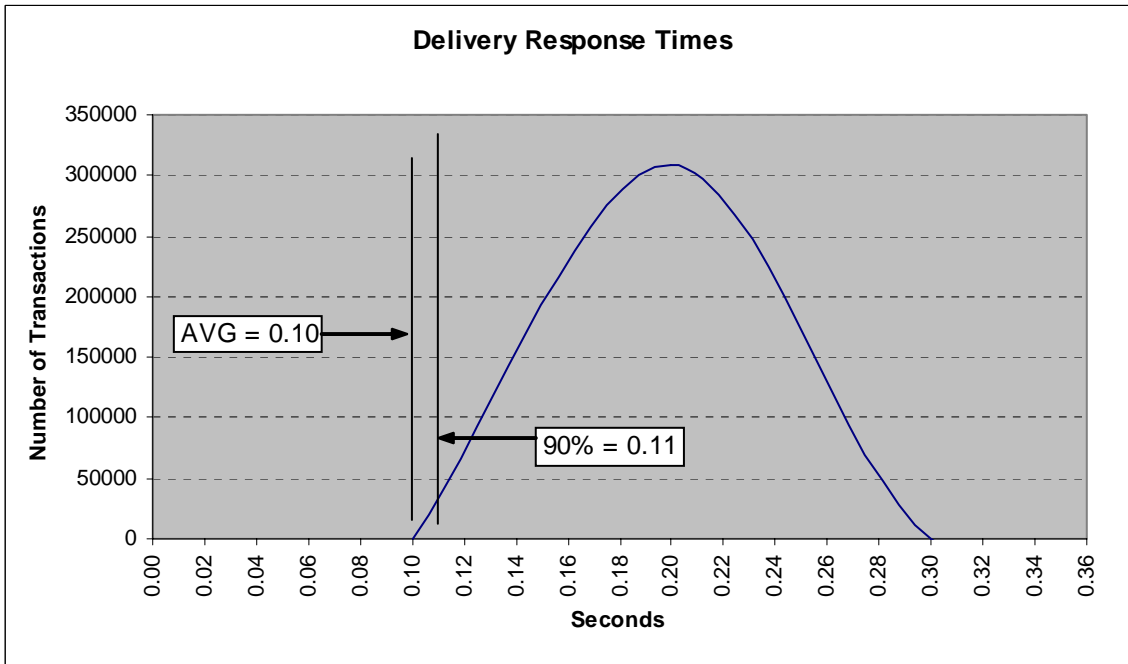


Figure 7. Stock Level Response Time Distribution

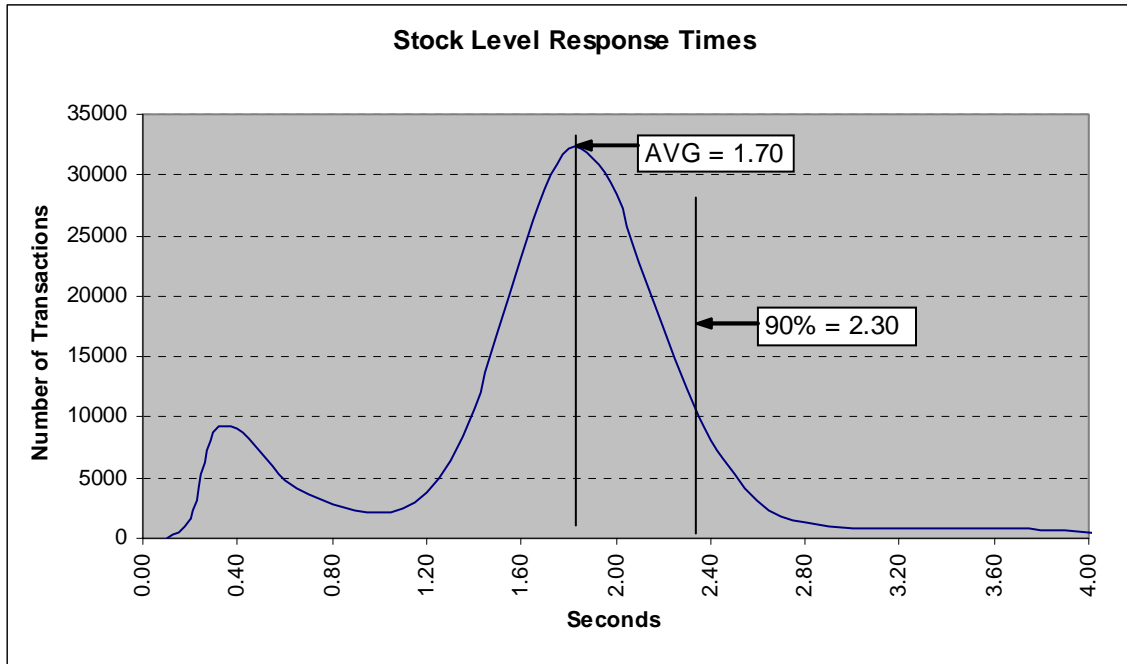


Figure 8. Response Time vs. Throughput

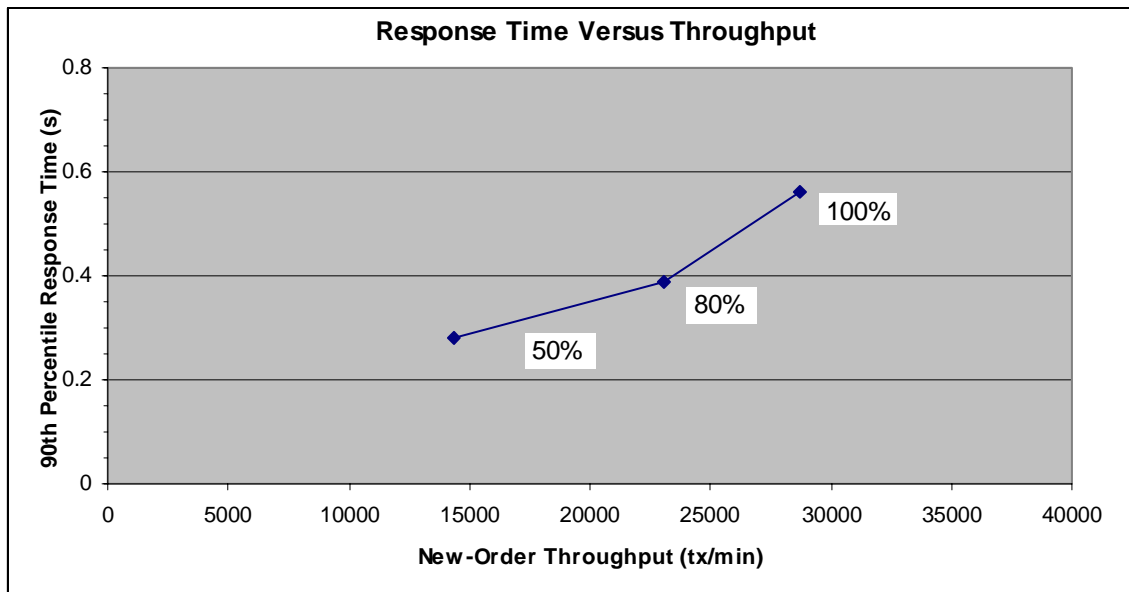
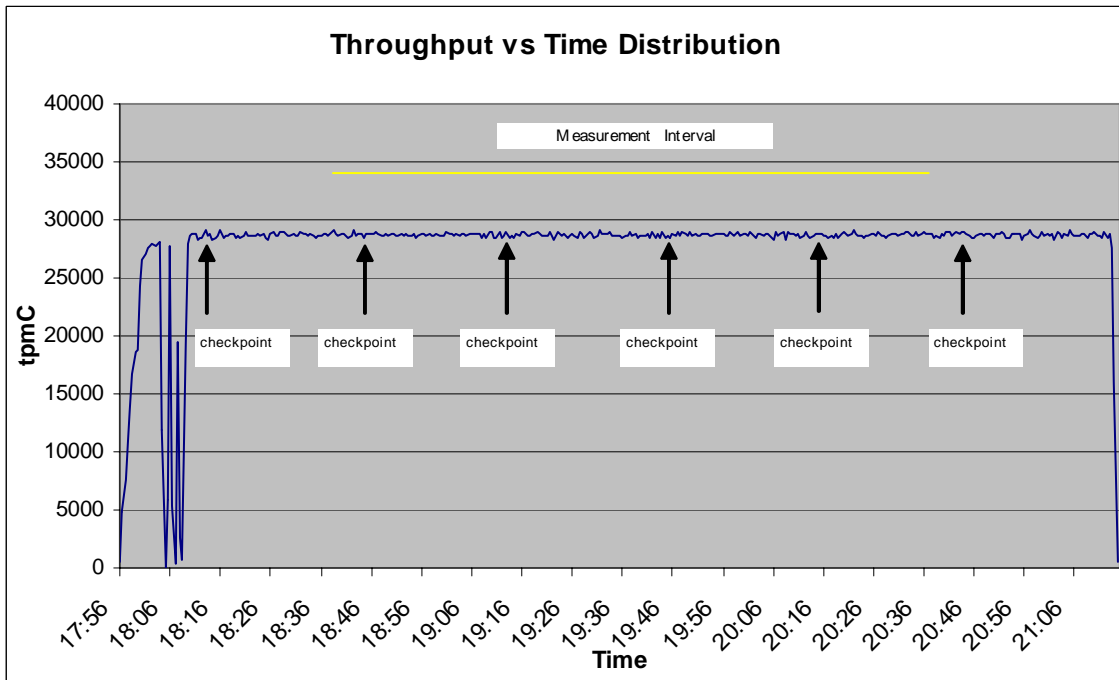


Figure 9. New Order Think Time Distribution



Figure 10. 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 Ethernet LANs using ODBC 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	1.01%
	Average items per order	10.00
Payment	Home warehouse payments	84.99%
	Remote warehouse payments	15.01%
	Accessed by last name	60.01%
Delivery	Skipped transactions (interactive)	0
	Skipped transactions (deferred)	0
Order Status	Accessed by last name	60.12%
Transaction Mix	New Order	44.88%
	Payment	43.04%
	Order status	4.03%
	Delivery	4.03%
	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 49 minutes and 0.53 seconds after the start of the ramp-up. Subsequent checkpoints occurred every 30 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
6:44:56.09 p.m.	17 minutes, 27.77 seconds
7:14:51.11 p.m.	17 minutes, 39.22 seconds
7:44:46.23 p.m.	16 minutes, 24.10 seconds
8:14:41.16 p.m.	18 minutes, 1.93 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 are 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 1 HP ProLiant server. This driver machine 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 which 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, 1 driver (RTE) machine was connected through a Gigabit switch to the client machines at 1000Mbps, thus providing the path from the RTE to the client. The server (SUT) was connected to the client through a single Cat 5e Ethernet cable that was connected to the integrated Gigabit network cards in both the server and the client.

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** 28,711 tpmC
- **Price per tpmC** \$2.14 per tpmC
- **Availability** March 17, 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:

- 1 Microsoft Windows 2000 Server
- 1 Microsoft Server 2003 Enterprise Edition
- 1 Microsoft SQL Server 2000 Enterprise Edition (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.

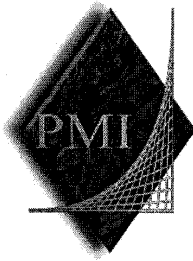
This implementation of the TPC Benchmark C was audited by Lorna Livingtree of Performance Metrics, Inc.

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.

TPC Benchmark C Full Disclosure Report and other information are available at the TPC web site, www.tpc.org.



PERFORMANCE METRICS INC.
TPC Certified Auditors

March 1, 2004

Mr. John Ellyson
Database Performance Engineer
Hewlett-Packard Company
20555 SH 249
Houston, TX 77070

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

Platform: HP ProLiant ML350 G3 1P
Database Manager: Microsoft SQL Server 2000 Enterprise Edition
Operating System: Microsoft Windows 2003 Enterprise Edition
Transaction Monitor: COM+

System Under Test: HP ProLiant ML350 G3 1P with:				
CPU's	Memory	Disks (total)	90% Response	TpmC
1 Xeon @ 2.8 Ghz	Main: 8 GB	43 @ 18.2GB 4 @ 72 GB	0.56	28,711.93

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

- The transactions were correctly implemented.
- The database files were properly sized.
- The database was properly scaled with 2350 warehouses, of which 2300 were active during the measured interval.
- The ACID properties were successfully demonstrated.
- Input data was generated according to the specified percentages.
- Eight hours of mirrored log space was present on the tested system.
- Eight hours of growth space for the dynamic tables was present on the tested system.
- The data for the 60 days space calculation was verified.
- The controller cache for the log disks was disabled.
- The steady state portion of the test was 120 minutes.

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TPC Certified Auditors

- More than one checkpoint was taken before the measured interval opened.
- Four checkpoints were completed inside the measured interval.
- The system pricing was checked for major components and maintenance.
- Third party quotes were verified for compliance.

Auditor Notes: None

Sincerely,



Lorna Livingtree
Auditor

Appendix A: Source Code

The client source code is listed below.

Methods.h

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

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

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

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

```
        m_SystemErr =
dwSystemErr;
        m_szErrorText = NULL;
    };

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

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

        int ErrorType() {return
ERR_TYPE_COMPONENT};
        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
 * Microsoft
TPC-C Kit Ver. 4.20.000
 * Copyright
Microsoft, 1999
 * All Rights Reserved
 * not yet
audited
 *
 * PURPOSE: Implementation for TPC-C Tuxedo
class.
 * Contact: Charles Levine
(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
  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>
{{{
}}}

#####
#####

```

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 /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 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 /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 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 /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 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

```

```

# 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 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
# ADD LINK32 icap.lib 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

!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
//tpcc web generated error
#define ERR_TYPE_SQL 4
//sql server generated error
#define ERR_TYPE_DBLIB 5
//dblib generated error
#define ERR_TYPE_ODBC 6
//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 "Number of Delivery
Threads:",IDC_STATIC,35,45,115,12

    LTEXT "Max Number of
Connections:",IDC_STATIC,35,73,115,12

    RTEXT "Version
4.11",IDC_VERSION,120,4,89,9

    LTEXT "IIS Max Thread Pool
Limit:",IDC_STATIC,36,263,115,12

    LTEXT "Web Service Backlog Queue
Size:",IDC_STATIC,36,277,115,
12

    LTEXT "IIS Thread Timeout
(seconds):",IDC_STATIC,36,291,115,12

    LTEXT "IIS Listen
Backlog:",IDC_STATIC,36,307,115,10

    GROUPBOX "Database
Interface",IDC_STATIC,35,208,163,27,WS_GROUP

    LTEXT "Installation
directory:",IDC_STATIC,35,29,71,10

    GROUPBOX "Transaction
Monitor",IDC_STATIC,33,90,165,37

    LTEXT "Server
Name:",IDC_STATIC,35,155,56,8
```

```

LTEXT      "User ID:", IDC_STATIC, 35, 168, 60, 8
LTEXT      "User
Password:", IDC_STATIC, 35, 181, 83, 8
LTEXT      "Database
Name:", IDC_STATIC, 35, 194, 54, 8
GROUPBOX   "SQL Server Connection
Properties", IDC_STATIC, 22, 139, 187,
102
GROUPBOX   "Web Client
Properties", IDC_STATIC, 22, 15, 187, 118
GROUPBOX   "IIS
Settings", IDC_STATIC, 22, 247, 187, 79
LTEXT      "Max Pending
Deliveries:", IDC_STATIC, 35, 59, 115, 12
END

IDD_DIALOG2 DIALOGEX 0, 0, 117, 62
STYLE DS_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

#ifdef  // !_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
"..\\..\\tm_tuxedo_dll\\bin\\tpcc_tuxedo.dll"

////////////////////////////////////
////////////////////////////////////
//
// 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"

#ifdef  // 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;

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

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

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

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

```

```

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

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

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

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

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

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

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

        pCatalogObjectApp->Release();
        pCatalogObjectApp = NULL;

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

        hr = pCOMAdminCat-
    >InstallComponent(bstrTemp,
    bstrTemp2,

```

```

        bstrTemp3,

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

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

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

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

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

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

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

            bstrTemp = "ConstructorString";
            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=c1.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" /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
!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
odbc32.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\debug\spinlock.lib
..\common\txnlog\lib\debug\rtetime.lib
..\common\txnlog\lib\debug\spinlock.lib
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.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

```

```

odbc32.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\debug\spinlock.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 odbc32.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
odbc32.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\txnlog.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 odbc32.lib /nologo
/subsystem:windows /dll /debug /machine:I386
/nodfaultlib:"LIBCMTD" /out:".bin\tpcc.dll"
/pdbtype:sept
# SUBTRACT LINK32 /profile /pdb:none /nodfaultlib

!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
odbc32.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\debug\txnlog.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 odbc32.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.
 */

#ifndef _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_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

```

```

# 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 /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 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
*m_szTextDetail; //
char
*m_szErrorText;
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(AFX_RESOURCE_DLL) ||
defined(AFX_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
        component
        m_pPayment = m_pNewOrder;
        m_pStockLevel = m_pNewOrder;
        m_pOrderStatus = m_pNewOrder;
    }
    else
    {
        // use different components for
each txn

```

```

        hr =
CoCreateInstance(CLSID_NewOrder, NULL, CLSCTX_SERVER,
IID_ITPCC, (void **) &m_pNewOrder);
        if (FAILED(hr))
            throw new CCOMERR(hr);

        hr =
CoCreateInstance(CLSID_Payment, NULL, CLSCTX_SERVER,
IID_ITPCC, (void **) &m_pPayment);
        if (FAILED(hr))
            throw new CCOMERR(hr);

        hr =
CoCreateInstance(CLSID_StockLevel, NULL,
CLSCTX_SERVER, IID_ITPCC, (void **) &m_pStockLevel);
        if (FAILED(hr))
            throw new CCOMERR(hr);

        hr =
CoCreateInstance(CLSID_OrderStatus, NULL,
CLSCTX_SERVER, IID_ITPCC, (void **) &m_pOrderStatus);
        if (FAILED(hr))
            throw new CCOMERR(hr);
    }

    // call setcomplete to release each
component back into pool
    hr = m_pNewOrder->CallSetComplete();
    if (FAILED(hr))
        throw new CCOMERR(hr);

    if (!m_bSinglePool)
    {
        hr = m_pPayment->
>CallSetComplete();
        if (FAILED(hr))
            throw new CCOMERR(hr);

        hr = m_pStockLevel->
>CallSetComplete();
        if (FAILED(hr))
            throw new CCOMERR(hr);

        hr = m_pOrderStatus->
>CallSetComplete();
        if (FAILED(hr))
            throw new CCOMERR(hr);
    }

    CTPCC_COM::~CTPCC_COM()
    {
        if (m_pTxn)
            SafeArrayDestroy(m_vTxn.parray);

        ReleaseInterface(m_pNewOrder);
        if (!m_bSinglePool)
        {
            ReleaseInterface(m_pPayment);
            ReleaseInterface(m_pStockLevel);
            ReleaseInterface(m_pOrderStatus);
        }
        CoUninitialize();
    }

```

```

}

void CTPCC_COM::NewOrder()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pNewOrder->NewOrder(m_vTxn,
&vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );
    memcpy(m_pTxn, (void *)vTxn_out.parray-
>pvData,vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn-
>ErrorType, m_pTxn->error );
}

void CTPCC_COM::Payment()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pPayment->Payment(m_vTxn,
&vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );
    memcpy(m_pTxn, (void *)vTxn_out.parray-
>pvData,vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn-
>ErrorType, m_pTxn->error );
}

void CTPCC_COM::StockLevel()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pStockLevel-
>StockLevel(m_vTxn, &vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );
    memcpy(m_pTxn, (void *)vTxn_out.parray-
>pvData,vTxn_out.parray->rgsabound[0].cElements);
    SafeArrayDestroy(vTxn_out.parray);

    if ( m_pTxn->ErrorType != ERR_SUCCESS )
        throw new CCOMERR( m_pTxn-
>ErrorType, m_pTxn->error );
}

void CTPCC_COM::OrderStatus()
{
    VARIANT vTxn_out;

    HRESULT hr = m_pOrderStatus-
>OrderStatus(m_vTxn, &vTxn_out);
    if (FAILED(hr))
        throw new CCOMERR( hr );
    memcpy(m_pTxn, (void *)vTxn_out.parray-
>pvData,vTxn_out.parray->rgsabound[0].cElements);

```



```

SafeArrayDestroy(vTxn_out.parray);

if ( m_pTxn->ErrorType != ERR_SUCCESS )
    throw new CCOMERR( m_pTxn-
>ErrorType, m_pTxn->error );
}

```

tpcc_com.h

```

/* FILE: TPCC_COM.H
 * Microsoft
TPC-C Kit Ver. 4.20.000
 * Copyright
 * 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(dlllexport) 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), 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 =
{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

#pragma warning( disable: 4049 ) /* more than 64k
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/* this ALWAYS GENERATED file contains the IIDs and
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VC __declspec() decoration level:
__declspec(uuid()), __declspec(selectany),
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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>
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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}}
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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

```

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

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

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    const type name =
{1,w1,w2,{b1,b2,b3,b4,b5,b6,b7,b8}}

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```

#endif !_MIDL_USE_GUIDDEF_

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CLSID_TPCC,0x122A3128,0x2520,0x11D3,0xBA,0x71,0x00,0xC0,0x4F,0xBF,0xE0,0x8B);

MIDL_DEFINE_GUID(CLSID,
CLSID_NewOrder,0x975BAABF,0x84A7,0x11D2,0xBA,0x47,0x00,0x00,0x4F,0xBF,0xE0,0x8B);

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CLSID_Payment,0xCD02F7EF,0xA4FA,0x11D2,0xBA,0x4E,0x00,0x00,0x4F,0xBF,0xE0,0x8B);

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

#undef MIDL_DEFINE_GUID

#ifdef __cplusplus
}
#endif

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

#pragma warning( disable: 4049 ) /* more than 64k
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/* this ALWAYS GENERATED file contains the IIDs and
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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 =
{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,0x71,0x00,0x00,0x4F,0xBF,0xE0,0x8B);

```

```

MIDL_DEFINE_GUID(CLSID,
CLSID_TPCC,0x122A3128,0x2520,0x11D3,0xBA,0x71,0x00,0xC0,0x4F,0xBF,0xE0,0x8B);

MIDL_DEFINE_GUID(CLSID,
CLSID_NewOrder,0x975BAABF,0x84A7,0x11D2,0xBA,0x47,0x00,0x00,0x4F,0xBF,0xE0,0x8B);

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

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

MIDL_DEFINE_GUID(CLSID,
CLSID_StockLevel,0x2668369E,0xA50D,0x11D2,0xBA,0x4E,0x00,0x00,0x4F,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

#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
*/

```

tpcc_com_all_i.c

```

/* 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
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, 0x00
C0, 0x4F, 0xBF, 0xE0, 0x8B);

MIDL_DEFINE_GUID(CLSID,
CLSID_NewOrder, 0x975BAABF, 0x84A7, 0x11D2, 0xBA, 0x47, 0x00
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
////////////////////////////////////
////////////////////////////////////
//
// 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 =
{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

#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
#endif
```

```

#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__

#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%'
            {
                val
                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 __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,{0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00}} */

/* 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
};

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 /*
        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
#endif
#endif
PPC Stack size/offset = 32 */
#endif
#else
NdrFcShort( 0x20 ), /*
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
#endif
#else
NdrFcShort( 0x8 ), /*
PPC Stack size/offset = 8 */
#endif
#endif
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
#endif
#else
NdrFcShort( 0x18 ), /*
PPC Stack size/offset = 24 */
#endif
#endif
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
#endif
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( 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
/* 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 */

    /* 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( 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( 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( 0xfffffffff ), /* -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 */
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( 0xffffffffd4 ), /* 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, /*
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( 0xfffffd4 ), /* 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( 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( 0xffffffff ), /* Offset= -
24 (716) */
/* 742 */
FC_END */
0x5b, /*
FC_LONG */
/* 744 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 746 */
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 */
FC_PSTRUCT */
0x16, /*
3 */
/* 758 */ NdrFcShort( 0x8 ), /* 8 */
/* 760 */
FC_PP */
0x4b, /*
FC_PAD */
/* 762 */
0x5c, /*
FC_NO_REPEAT */
0x46, /*
FC_PAD */
/* 764 */ NdrFcShort( 0x4 ), /* 4 */
/* 766 */ NdrFcShort( 0x4 ), /* 4 */
/* 768 */ 0x12, 0x0, /* FC_UP */
/* 770 */ NdrFcShort( 0xffffffff ), /* Offset= -
24 (746) */
/* 772 */
FC_END */
0x5b, /*
FC_LONG */
/* 774 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 776 */
FC_CARRAY */
0x1b, /*
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, /*
/* 792 */
FC_NO_REPEAT */
0x46, /*
FC_PAD */
0x5c, /*
/* 794 */ NdrFcShort( 0x4 ), /* 4 */
/* 796 */ NdrFcShort( 0x4 ), /* 4 */
/* 798 */ 0x12, 0x0, /* FC_UP */
/* 800 */ NdrFcShort( 0xffffffff ), /* Offset= -
24 (776) */
/* 802 */
FC_END */
0x5b, /*
0x8, /*
FC_LONG */
/* 804 */ 0x8, /* FC_LONG */
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 */
FC_PSTRUCT */
0x16, /*
0x3, /*
3 */
/* 818 */ NdrFcShort( 0x8 ), /* 8 */
/* 820 */
FC_PP */
0x4b, /*
FC_PAD */
0x5c, /*
/* 822 */

```

```

0x46, /*
FC_NO_REPEAT */
0x5c, /*
FC_PAD */
/* 824 */ NdrFcShort( 0x4 ), /* 4 */
/* 826 */ NdrFcShort( 0x4 ), /* 4 */
/* 828 */ 0x12, 0x0, /* FC_UP */
/* 830 */ NdrFcShort( 0xffffffff ), /* Offset= -
24 (806) */
/* 832 */
FC_END */
0x5b, /*
FC_LONG */
/* 834 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 836 */
FC_STRUCT */
0x15, /*
0x3, /*
3 */
/* 838 */ NdrFcShort( 0x8 ), /* 8 */
/* 840 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 842 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 844 */
FC_CARRAY */
0x1b, /*
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( 0xffffffff ), /* Offset= -
18 (836) */
/* 856 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 858 */
FC_BOGUS_STRUCT */
0x1a, /*
0x3, /*
3 */
/* 860 */ NdrFcShort( 0x28 ), /* 40 */
/* 862 */ NdrFcShort( 0xffffffff ), /* 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( 0xfffffd7
), /* Offset= -521 (352) */
0x5b, /*
FC_END */
/* 876 */
0x12, 0x0, /*
FC_UP */
/* 878 */ NdrFcShort( 0xfffffe6 ), /* 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( 0xffffd90 ), /* Offset= -
624 (278) */
/* 904 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 906 */ NdrFcShort( 0xffffd92 ), /* Offset= -
622 (284) */
/* 908 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 910 */ NdrFcShort( 0xffffda6 ), /* Offset= -
602 (308) */
/* 912 */
0x12, 0x10, /*
FC_UP [pointer_deref] */

```

```

/* 914 */ NdrFcShort( 0xffffdb4 ), /* Offset= -
588 (326) */
/* 916 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 918 */ NdrFcShort( 0xffffdc2 ), /* 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( 0xffffffd4 ), /* 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 *
_tpc_com_ps_ProxyVtblList[] =
{
( CInterfaceProxyVtbl * ) &ITPCCProxyVtbl,
0
};
const CInterfaceStubVtbl *
_tpc_com_ps_StubVtblList[] =
{
( CInterfaceStubVtbl * ) &ITPCCStubVtbl,
0
};
PCInterfaceName const
_tpc_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={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,
    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,
    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,
                /* FC_AUTO_HANDLE */
                0x6c,
                /* FC_AUTO_HANDLE */
            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 */
            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 */
            0x0, /*
            0 */

            /* Procedure Payment */

```

```

            /* 44 */ 0x33, /* FC_AUTO_HANDLE */
            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, */
            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, */
            #ifndef _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 */
            #ifndef _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, */
            #ifndef _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 */
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 */

0x0

}
};

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( 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( 0xfffff0 ), /* 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,          /*
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( 0xfffff5dc ), /* 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( 0xfffff58 ), /* 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( 0xfffff5dc ), /* 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( 0xfffff44 ), /* 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( 0xfffff5dc ), /* 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( 0xfffff5dc ), /* Offset= -
36 (538) */
/* 576 */
0x2f,          /*
FC_IP */
0x5a,          /*
FC_CONSTANT_IID */
/* 578 */ NdrFcLong( 0x2f ), /* 47 */
/* 582 */ NdrFcShort( 0x0 ), /* 0 */
/* 584 */ NdrFcShort( 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 */ NdrFcShort( 0x1 ), /* 1 */
/* 598 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,          /*
*/
/* 600 */ NdrFcShort( 0x4 ), /* 4 */
/* 602 */ NdrFcShort( 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( 0xfffffff1
), /* 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( 0xffffffe7
), /* 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( 0xffffffe6 ), /* 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( 0xffffffe6 ), /* 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 */ NdrFcShort( 0x2 ), /* Offset= 2 (906) */
/* 906 */
                                0x12, 0x0, /*
FC_UP */
/* 908 */ NdrFcShort( 0x16 ), /* Offset= 22 (930) */
/* 910 */
                                0x15, /*
FC_STRUCT */
                                0x7, /*
7 */
/* 912 */ NdrFcShort( 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 */ NdrFcShort( 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 */ NdrFcShort( 0x20 ), /* 32 */
/* 934 */ NdrFcShort( 0x0 ), /* 0 */
/* 936 */ NdrFcShort( 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 */ NdrFcShort( 0xfffffc54 ), /* Offset= -
940 (6) */
/* 948 */ 0x5c, /* FC_PAD */
                                0x5b, /*
FC_END */
/* 950 */ 0xb4, /* FC_USER_MARSHAL */

```

```

                                0x83, /*
131 */
/* 952 */ NdrFcShort( 0x0 ), /* 0 */
/* 954 */ NdrFcShort( 0x18 ), /* 24 */
/* 956 */ NdrFcShort( 0x0 ), /* 0 */
/* 958 */ NdrFcShort( 0xfffffc44 ), /* Offset= -
956 (2) */
/* 960 */
                                0x11, 0x4, /*
FC_RP [allocated_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=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,{0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00}} */

/* 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={0xFE6E6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0x00,0x4F,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,
    __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, */

```



```

#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, */
#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
#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 */
#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
#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, */
#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
#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 */
#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, */
#ifdef _ALPHA_
#ifdef _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 */
#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 */
0x0, /*
0 */

0x0

};

```

```

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
    0,
    {
        0 /*
        /* 2 */
        FC_UP /*
        /* 4 */ NdrFcShort( 0x3b0 ), /* Offset=
        944 (948) */
        /* 6 */
        FC_NON_ENCAPSULATED_UNION /*
        /* 8 */ 0x7, /* Corr desc: FC_USHORT
        */
        /* 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 /*
/* 7 */
/* 280 */ NdrFcShort( 0x8 ), /* 8 */
/* 282 */ 0xb, /* FC_HYPER */
/* 284 */
FC_END /*
/* 286 */ NdrFcShort( 0xc ), /* Offset= 12 (298) */
/* 288 */
FC_CARRAY /*
/* 1 */
/* 290 */ NdrFcShort( 0x2 ), /* 2 */
/* 292 */ 0x9, /* Corr desc: FC_ULONG
*/
/* 294 */ NdrFcShort( 0xffffc ), /* -4 */
/* 296 */ 0x6, /* FC_SHORT */
/* 298 */
FC_END /*
/* 298 */
FC_CSTRUCT /*
/* 300 */ NdrFcShort( 0x8 ), /* 8 */
/* 302 */ NdrFcShort( 0xffffffff2 ), /* Offset= -
14 (288) */
/* 304 */ 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 */
0x3, /*
3 */
/* 506 */ NdrFcShort( 0x0 ), /* 0 */
/* 508 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 510 */ NdrFcShort( 0x0 ), /* 0 */
/* 512 */ NdrFcLong( 0xfffffff ), /* -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 */
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 */
/* 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 */
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( 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 */
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( 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 */
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 */
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( 0xfffffd4 ), /* Offset= -
44 (612) */
/* 658 */
FC_END */
0x5b, /*
FC_LONG */
0x8, /*
/* 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( 0xfffff1
), /* 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( 0xfffffe8 ), /* 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( 0xfffffe8 ), /* 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 */
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 */
FC_PP /*
0x4b, /*
FC_PAD /*
/* 822 */
0x5c, /*
FC_NO_REPEAT /*
0x46, /*
0x5c, /*
FC_PAD /*
/* 824 */ NdrFcShort( 0x4 ), /* 4 */
/* 826 */ NdrFcShort( 0x4 ), /* 4 */
/* 828 */ 0x12, 0x0, /* FC_UP */
/* 830 */ NdrFcShort( 0xfffffe8 ), /* Offset= -
24 (806) */
/* 832 */

```

```

0x5b, /*
FC_END /*
0x8, /*
/* 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( 0xffffdf7
), /* 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( 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=12), 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__

```



```

                                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,
        {
            0 * /
            /* 2 */
            FC_UP /*
            /* 4 */ NdrFcShort( 0x39e ), /* Offset=
            926 (930) */
            /* 6 */
            FC_NON_ENCAPSULATED_UNION /*
            /* 8 */ 0x7, /* Corr desc: FC_USHORT
            */
            /* 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 /*
/* 282 */ NdrFcShort( 0x8 ), /* 8 */
/* 284 */ 0xb, /* FC_HYPER */
/* 286 */
FC_END /*
/* 288 */ NdrFcShort( 0xe ), /* Offset= 14 (302) */
/* 290 */
/* 292 */ NdrFcShort( 0x2 ), /* 2 */
/* 294 */ 0x9, /* Corr desc: FC_ULONG
*/
/* 296 */ NdrFcShort( 0xffffc ), /* -4 */
/* 298 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 300 */ 0x6, /* FC_SHORT */
/* 302 */
FC_END /*
/* 304 */
/* 306 */ 0x17, /*
*/
FC_CSTRUCT /*

```

```

3 */
/* 304 */ NdrFcShort( 0x8 ), /* 8 */
/* 306 */ NdrFcShort( 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 */ NdrFcLong( 0x0 ), /* 0 */
/* 318 */ NdrFcShort( 0x0 ), /* 0 */
/* 320 */ NdrFcShort( 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 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 336 */ NdrFcShort( 0x0 ), /* 0 */
/* 338 */ NdrFcShort( 0x0 ), /* 0 */
/* 340 */ 0xc0, /* 192 */
0 */
/* 342 */ 0x0, /* 0 */
0 */
/* 344 */ 0x0, /* 0 */
0 */
/* 346 */ 0x0, /* 0 */
70 */
/* 348 */
FC_UP [pointer_deref] */
/* 350 */ NdrFcShort( 0x2 ), /* Offset= 2 (352) */
/* 352 */
0x12, 0x10,
FC_UP */
/* 354 */ NdrFcShort( 0x1e6 ), /* Offset=
486 (840) */
/* 356 */
0x2a,
FC_ENCAPSULATED_UNION */

```

```

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 */
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( 0xfffff44 ), /* Offset= -
188 (330) */
/* 520 */ 0x5c, /* FC_PAD */
/* 522 */
FC_END */
/* 522 */
FC_BOGUS_STRUCT */
0x1a, /*
0x3, /*
3 */
/* 524 */ NdrFcShort( 0x10 ), /* 16 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
/* 532 */ 0x36, /* FC_ALIGNM8 */
/* 534 */
FC_END */
/* 534 */
FC_UP */
/* 536 */ NdrFcShort( 0xfffffdc ), /* Offset= -
36 (500) */
/* 538 */
FC_BOGUS_ARRAY */
0x21, /*
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 */
/* 560 */
FC_END */
/* 560 */
FC_BOGUS_STRUCT */
0x1a, /*
0x3, /*
3 */

```

```

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

```

```

0x0, /*
0 */
/* 618 */ NdrFcShort( 0xffffffff6 ), /* Offset= -
42 (576) */
/* 620 */ 0x39, /* FC_ALIGNM8 */
/* 622 */ 0x5c, /* FC_POINTER */
/* 624 */ 0x5b, /* FC_PAD */
/* 624 */
FC_END */
/* 624 */
FC_UP */
/* 626 */ NdrFcShort( 0xfffffe0 ), /* Offset= -
32 (594) */
/* 628 */
FC_BOGUS_ARRAY */
0x21, /*
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 */
/* 650 */
FC_END */
/* 650 */
FC_BOGUS_STRUCT */
0x1a, /*
0x3, /*
3 */
/* 652 */ NdrFcShort( 0x10 ), /* 16 */
/* 654 */ NdrFcShort( 0x0 ), /* 0 */
/* 656 */ NdrFcShort( 0x6 ), /* Offset= 6 (662) */
/* 658 */ 0x8, /* FC_LONG */
/* 660 */ 0x36, /* FC_ALIGNM8 */
/* 662 */ 0x5b, /* FC_POINTER */
/* 662 */
FC_END */
/* 662 */
FC_UP */
/* 664 */ NdrFcShort( 0xfffffdc ), /* Offset= -
36 (628) */
/* 666 */
FC_SMPARRAY */
0x1d, /*
0 */
/* 668 */ NdrFcShort( 0x8 ), /* 8 */

```

```

/* 670 */ 0x1,          /* FC_BYTE */
FC_END /*
/* 672 */
FC_STRUCT */
          0x15,
          /*
          0x3,
          /*
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 */
          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( 0xffffffffe7
          ), /* Offset= -25 (672) */
FC_END /*
/* 700 */
          0x11, 0x0,
          /*
FC_RP */
/* 702 */ NdrFcShort( 0xffffffff10 ), /* 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( 0xffffffffe6 ), /* 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( 0xffffffffe6 ), /* 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 */
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 */
FC_ALIGNM8 */
/* 782 */ 0x36,          /* FC_POINTER */
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 */
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 */
FC_ALIGNM8 */
/* 810 */ 0x36,          /* FC_POINTER */
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 */
/* FC_LONG */
/* 822 */ 0x5c,          /* FC_PAD */
/* FC_END */
/* 824 */
/* FC_CARRAY */
/* 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 */
/* FC_END */
/* 840 */
/* FC_BOGUS_STRUCT */
/* 842 */ NdrFcShort( 0x38 ), /* 56 */
/* 844 */ NdrFcShort( 0xfffffec ), /* Offset= -
20 (824) */
/* 846 */ NdrFcShort( 0x0 ), /* Offset= 0 (846) */
/* 848 */ 0x6,          /* FC_SHORT */
/* FC_SHORT */
/* 850 */ 0x38,          /* FC_ALIGNM4 */
/* FC_LONG */
/* 852 */ 0x8,          /* FC_LONG */
/* FC_EMBEDDED_COMPLEX */
/* 854 */ 0x4,          /* 4 */
/* FC_END */
/* 858 */
/* FC_UP */
/* 860 */ NdrFcShort( 0xfffff02 ), /* Offset= -
254 (606) */
/* 862 */
/* FC_UP [simple_pointer] */
/* 864 */ 0x1,          /* FC_BYTE */

```

```

FC_PAD */
/* 866 */
FC_UP [simple_pointer] */
/* 868 */ 0x6,          /* FC_SHORT */
FC_PAD */
/* 870 */
FC_UP [simple_pointer] */
/* 872 */ 0x8,          /* FC_LONG */
FC_PAD */
/* 874 */
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( 0xffffda4 ), /* Offset= -
604 (280) */
/* 886 */
FC_UP [pointer_deref] */
/* 888 */ NdrFcShort( 0xffffda6 ), /* Offset= -
602 (286) */
/* 890 */
FC_UP [pointer_deref] */
/* 892 */ NdrFcShort( 0xffffdbc ), /* Offset= -
580 (312) */
/* 894 */
FC_UP [pointer_deref] */
/* 896 */ NdrFcShort( 0xffffdca ), /* Offset= -
566 (330) */
/* 898 */
FC_UP [pointer_deref] */
/* 900 */ NdrFcShort( 0xffffdd8 ), /* 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 */

```

```

0x7,          /*
7 */
/* 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( 0xffffff2 ), /* 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 */
/*
0x0,          /*
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 */
                                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("FEEB6AA2-84B1-11d2-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 __RPC_FAR *OrderStatus )(
        ITPCC __RPC_FAR * This,
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out);
        HRESULT ( STDMETHODCALLTYPE __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_HEADERING( )

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

/* verify that the <rpcproxy.h> version is high
enough to compile this file*/
#ifdef __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,{0xc0,0x00,0x00,0x00,0
x00,0x00,0x00,0x46}} */

```

```

/* Object interface: ITPCC, ver. 0.0,
GUID={0xFEFE6AA2,0x84B1,0x11d2,{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, */
3 */ 0x3, /*
*/

/* 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
#endif
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
#endif
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, */
3 */ 0x3, /*
*/

```

```

/* 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
#endif
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
#endif

```

```

                                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
#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, */
#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
#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 */
#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
#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, */
#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
#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 */
#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
#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 */
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 */

```



```

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( 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( 0xfffffe0 ), /* 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( 0xfffffe0 ), /* 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( 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, /*
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( 0xfffffd4 ), /* 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( 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 */
0x8, /*
/* 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( 0xffffffee ), /* Offset= -
18 (836) */
/* 856 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 858 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 860 */ NdrFcShort( 0x28 ), /* 40 */
/* 862 */ NdrFcShort( 0xffffffee ), /* 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( 0xfffffd7
), /* 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 *
_tpc_com_ps_ProxyVtblList[] =
{
( CInterfaceProxyVtbl *) &ITPCCProxyVtbl,
0
};
const CInterfaceStubVtbl *
_tpc_com_ps_StubVtblList[] =
{
( CInterfaceStubVtbl *) &ITPCCStubVtbl,
0
};
PCInterfaceName const
_tpc_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_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={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
};

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

0x0

}
};

static const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString =
{
0,
{
NdrFcShort( 0x0 ), /*
0 */
/* 2 */
0x12, 0x0, /*
FC_UP */
/* 4 */ NdrFcShort( 0x39e ), /* Offset=
926 (930) */
/* 6 */
0x2b, /*
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( 0xfffff0 ), /* 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,          /*
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( 0xfffff5dc ), /* 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( 0xfffffff ), /* -1 */
/* 476 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 478 */ 0x4c,        /* FC_EMBEDDED_COMPLEX
*/
0x0,          /*
0 */
/* 480 */ NdrFcShort( 0xfffff58 ), /* Offset= -
168 (312) */
/* 482 */ 0x5c,        /* FC_PAD */
0x5b,          /*
FC_END /*
/* 484 */
0x1a,          /*
FC_BOGUS_STRUCT */
0x3,          /*
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( 0xfffff5dc ), /* 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( 0xfffffff ), /* -1 */
/* 514 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 516 */ 0x4c,        /* FC_EMBEDDED_COMPLEX
*/
0x0,          /*
0 */
/* 518 */ NdrFcShort( 0xfffff44 ), /* 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( 0xfffff5dc ), /* 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( 0xfffffff ), /* -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( 0xfffff5dc ), /* Offset= -
36 (538) */
/* 576 */
0x2f,          /*
FC_IP */
0x5a,          /*
FC_CONSTANT_IID */
/* 578 */ NdrFcLong( 0x2f ), /* 47 */
/* 582 */ NdrFcShort( 0x0 ), /* 0 */
/* 584 */ NdrFcShort( 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 */ NdrFcShort( 0x1 ), /* 1 */
/* 598 */ 0x19,        /* Corr desc: field
pointer, FC_ULONG */
0x0,          /*
*/
/* 600 */ NdrFcShort( 0x4 ), /* 4 */
/* 602 */ NdrFcShort( 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 */ NdrFcShort( 0x2 ), /* Offset= 2 (906) */
/* 906 */
                                0x12, 0x0,    /*
FC_UP */
/* 908 */ NdrFcShort( 0x16 ), /* Offset= 22 (930) */
/* 910 */
                                0x15,        /*
FC_STRUCT */
                                0x7,        /*
7 */
/* 912 */ NdrFcShort( 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 */ NdrFcShort( 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 */ NdrFcShort( 0x20 ), /* 32 */
/* 934 */ NdrFcShort( 0x0 ), /* 0 */
/* 936 */ NdrFcShort( 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 */ NdrFcShort( 0xfffffc54 ), /* Offset= -
940 (6) */
/* 948 */ 0x5c,                /* FC_PAD */
                                0x5b,        /*
FC_END */
/* 950 */ 0xb4,                /* FC_USER_MARSHAL */

```

```

                                0x83,        /*
131 */
/* 952 */ NdrFcShort( 0x0 ), /* 0 */
/* 954 */ NdrFcShort( 0x18 ), /* 24 */
/* 956 */ NdrFcShort( 0x0 ), /* 0 */
/* 958 */ NdrFcShort( 0xfffffc44 ), /* Offset= -
956 (2) */
/* 960 */
                                0x11, 0x4,    /*
FC_RP [allocated_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=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,{0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00}} */

/* 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={0xFE6E6AA2,0x84B1,0x11d2,{0xBA,0x47,0x00,0x00,0x4F,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,
    __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, */

```

```

#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 *// NdrFcShort( 0x3b0 ), /* Offset=
        944 (948) *//
        /* 6 *//
        FC_NON_ENCAPSULATED_UNION /*/
        FC_ULONG /*/
        /* 8 *// 0x7, /* Corr desc: FC_USHORT
        *//
        /* 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 /*/
/* 280 *// NdrFcShort( 0x8 ), /* 8 *//
/* 282 *// 0xb, /* FC_HYPER *//
/* 284 *//
FC_END /*/
/* 286 *// NdrFcShort( 0xc ), /* Offset= 12 (298) *//
/* 288 *//
FC_UP /*/
/* 290 *// NdrFcShort( 0x2 ), /* 2 *//
/* 292 *// 0x9, /* Corr desc: FC_ULONG
*//
/* 294 *// NdrFcShort( 0xfffc ), /* -4 *//
/* 296 *// 0x6, /* FC_SHORT *//
/* 298 *//
FC_END /*/
/* 299 *//
FC_CSTRUCT /*/
/* 300 *// NdrFcShort( 0x8 ), /* 8 *//
/* 302 *// NdrFcShort( 0xffffffff2 ), /* Offset= -
14 (288) *//
/* 304 *// 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 */
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 */
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( 0xfffffd4 ), /* Offset= -
44 (612) */
/* 658 */
FC_END */
0x5b, /*
FC_LONG */
0x8, /*
/* 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( 0xfffff1
), /* 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( 0xfffffe8 ), /* 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( 0xfffffe8 ), /* 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 */
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 */
FC_PP /*
0x4b, /*
FC_PAD /*
/* 822 */
0x5c, /*
FC_NO_REPEAT /*
0x46, /*
0x5c, /*
FC_PAD /*
/* 824 */ NdrFcShort( 0x4 ), /* 4 */
/* 826 */ NdrFcShort( 0x4 ), /* 4 */
/* 828 */ 0x12, 0x0, /* FC_UP */
/* 830 */ NdrFcShort( 0xfffffe8 ), /* Offset= -
24 (806) */
/* 832 */

```

```

0x5b, /*
FC_END */
0x8, /*
/* 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( 0xffffdf7
), /* 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( 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=12), 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={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,
    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
    }
};

#ifdef __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 /* 0x6c, */
        /* 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,
        {
            0 * /
            /* 2 */
            FC_UP * /
            /* 4 */ NdrFcShort( 0x39e ), /* Offset=
            926 (930) */
            /* 6 */
            FC_NON_ENCAPSULATED_UNION * /
            /* 8 */ 0x7, /* Corr desc: FC_USHORT
            */
            /* 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 * /
/* 282 */ NdrFcShort( 0x8 ), /* 8 */
/* 284 */ 0xb, /* FC_HYPER */
/* 286 */
FC_END * /
/* 288 */ NdrFcShort( 0xe ), /* Offset= 14 (302) */
/* 290 */
/* 292 */ NdrFcShort( 0x2 ), /* 2 */
/* 294 */ 0x9, /* Corr desc: FC_ULONG
*/
/* 296 */ NdrFcShort( 0xfffc ), /* -4 */
/* 298 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 300 */ 0x6, /* FC_SHORT */
/* 302 */
FC_END * /
/* 304 */
/* 306 */ 0x17, /*
*/
FC_CSTRUCT * /

```

```

3 */
/* 304 */ NdrFcShort( 0x8 ), /* 8 */
/* 306 */ NdrFcShort( 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 */ NdrFcLong( 0x0 ), /* 0 */
/* 318 */ NdrFcShort( 0x0 ), /* 0 */
/* 320 */ NdrFcShort( 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 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 336 */ NdrFcShort( 0x0 ), /* 0 */
/* 338 */ NdrFcShort( 0x0 ), /* 0 */
/* 340 */ 0xc0, /* 192 */
0 */
/* 342 */ 0x0, /* 0 */
0 */
/* 344 */ 0x0, /* 0 */
0 */
/* 346 */ 0x0, /* 0 */
70 */
/* 348 */
FC_UP [pointer_deref] */
/* 350 */ NdrFcShort( 0x2 ), /* Offset= 2 (352) */
/* 352 */
0x12, 0x10,
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 */
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( 0xfffff44 ), /* Offset= -
188 (330) */
/* 520 */ 0x5c, /* FC_PAD */
/* 522 */
FC_END */
/* 522 */
FC_BOGUS_STRUCT */
0x1a, /*
0x3, /*
3 */
/* 524 */ NdrFcShort( 0x10 ), /* 16 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
/* 532 */ 0x36, /* FC_POINTER */
/* 534 */
FC_END */
/* 534 */
0x11, 0x0, /*
FC_RP */
/* 536 */ NdrFcShort( 0xfffffdc ), /* Offset= -
36 (500) */
/* 538 */
FC_BOGUS_ARRAY */
0x21, /*
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 */
/* 560 */
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 */
/* 570 */ 0x36, /* FC_POINTER */
/* 572 */
FC_ALIGNM8 */
/* 574 */ NdrFcShort( 0xfffffdc ), /* Offset= -
36 (538) */
/* 576 */
FC_IP */
0x2E, /*
0x5a, /*
FC_CONSTANT_IID */
/* 578 */ NdrFcLong( 0x2f ), /* 47 */
/* 582 */ NdrFcShort( 0x0 ), /* 0 */
/* 584 */ NdrFcShort( 0x0 ), /* 0 */
/* 586 */ 0xc0, /* 192 */
0 */
/* 588 */ 0x0, /* 0 */
0 */
/* 590 */ 0x0, /* 0 */
0 */
/* 592 */ 0x0, /* 0 */
70 */
/* 594 */
FC_CARRAY */
0x1b, /*
0x0, /*
0 */
/* 596 */ NdrFcShort( 0x1 ), /* 1 */
/* 598 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
/* 600 */ NdrFcShort( 0x4 ), /* 4 */
/* 602 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 604 */ 0x1, /* FC_BYTE */
/* 606 */
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 */
/* 616 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/

```

```

0x0, /*
0 */
/* 618 */ NdrFcShort( 0xffffffff6 ), /* Offset= -
42 (576) */
/* 620 */ 0x39, /* FC_ALIGNM8 */
/* 622 */ 0x5c, /* FC_POINTER */
/* 624 */
FC_END */
/* 624 */
0x12, 0x0, /*
FC_UP */
/* 626 */ NdrFcShort( 0xfffffe0 ), /* Offset= -
32 (594) */
/* 628 */
FC_BOGUS_ARRAY */
0x21, /*
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 */
/* 650 */
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 */
/* 660 */ 0x36, /* FC_POINTER */
/* 662 */
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 */
FC_STRUCT */
          0x15,
          /*
          0x3,
          /*
          3 */
/* 674 */ NdrFcShort( 0x10 ), /* 16 */
/* 676 */ 0x8,          /* FC_LONG */
          0x6,          /*
FC_SHORT */
/* 678 */ 0x6,          /* FC_SHORT */
          0x4c,         /*
FC_EMBEDDED_COMPLEX */
/* 680 */ 0x0,          /* 0 */
          NdrFcShort( 0xffffffffl
),          /* 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 */
          0x39,         /*
FC_ALIGNM8 */
/* 694 */ 0x36,         /* FC_POINTER */
          0x4c,         /*
FC_EMBEDDED_COMPLEX */
/* 696 */ 0x0,          /* 0 */
          NdrFcShort( 0xffffffffe7
),          /* Offset= -25 (672) */
          0x5b,         /*
FC_END /*
/* 700 */
          0x11, 0x0,    /*
FC_RP */
/* 702 */ NdrFcShort( 0xffffffff10 ), /* Offset= -
240 (462) */
/* 704 */
          0x1b,
          /*
FC_CARRY */
          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 */
          0x5b,         /*
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 */
          0x39,         /*
FC_ALIGNM8 */
/* 726 */ 0x36,         /* FC_POINTER */
          0x5b,         /*
FC_END /*
/* 728 */
          0x12, 0x0,    /*
FC_UP */
/* 730 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (704) */
/* 732 */
          0x1b,
          /*
FC_CARRY */
          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 */
          0x5b,         /*
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 */
          0x39,         /*
FC_ALIGNM8 */
/* 754 */ 0x36,         /* FC_POINTER */
          0x5b,         /*
FC_END /*
/* 756 */
          0x12, 0x0,    /*
FC_UP */
/* 758 */ NdrFcShort( 0xffffffffe6 ), /* Offset= -
26 (732) */
/* 760 */
          0x1b,
          /*
FC_CARRY */
          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_CARRY */
          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 */
/* FC_LONG */
/* 822 */ 0x5c, /* FC_PAD */
/* FC_END */
/* 824 */
/* FC_CARRAY */
/* 826 */ NdrFcShort( 0x8 ), /* 8 */
/* 828 */ 0x7, /* Corr desc: FC_USHORT */
/* 830 */ NdrFcShort( 0xffc8 ), /* -56 */
/* 832 */ NdrFcShort( 0x1 ), /* Corr flags: early, */
/* 834 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
/* 836 */ NdrFcShort( 0xfffffec ), /* Offset= -20 (816) */
/* 838 */ 0x5c, /* FC_PAD */
/* FC_END */
/* 840 */
/* FC_BOGUS_STRUCT */
/* 842 */ NdrFcShort( 0x38 ), /* 56 */
/* 844 */ NdrFcShort( 0xfffffec ), /* Offset= -20 (824) */
/* 846 */ NdrFcShort( 0x0 ), /* Offset= 0 (846) */
/* 848 */ 0x6, /* FC_SHORT */
/* FC_SHORT */
/* 850 */ 0x38, /* FC_ALIGNM4 */
/* FC_LONG */
/* 852 */ 0x8, /* FC_LONG */
/* FC_EMBEDDED_COMPLEX */
/* 854 */ 0x4, /* 4 */
/* 856 */ NdrFcShort( 0xffffe0d ), /* Offset= -499 (356) */
/* FC_END */
/* 858 */
/* FC_UP */
/* 860 */ NdrFcShort( 0xfffff02 ), /* Offset= -254 (606) */
/* 862 */
/* FC_UP [simple_pointer] */
/* 864 */ 0x1, /* FC_BYTE */

```

```

FC_PAD */
/* 866 */
FC_UP [simple_pointer] */
/* 868 */ 0x6, /* FC_SHORT */
FC_PAD */
/* 870 */
FC_UP [simple_pointer] */
/* 872 */ 0x8, /* FC_LONG */
FC_PAD */
/* 874 */
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( 0xffffda4 ), /* Offset= -604 (280) */
/* 886 */
FC_UP [pointer_deref] */
/* 888 */ NdrFcShort( 0xffffda6 ), /* Offset= -602 (286) */
/* 890 */
FC_UP [pointer_deref] */
/* 892 */ NdrFcShort( 0xffffdbc ), /* Offset= -580 (312) */
/* 894 */
FC_UP [pointer_deref] */
/* 896 */ NdrFcShort( 0xffffdca ), /* Offset= -566 (330) */
/* 898 */
FC_UP [pointer_deref] */
/* 900 */ NdrFcShort( 0xffffdd8 ), /* 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 */

```

```

0x7, /*
7 */
/* 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( 0xffffff2 ), /* 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 */
/* 946 */ NdrFcShort( 0xfffffc54 ), /* Offset= -940 (6) */
/* 948 */ 0x5c, /* FC_PAD */
/* FC_END */
/* 950 */ 0xb4, /* FC_USER_MARSHAL */
/* 952 */ NdrFcShort( 0x0 ), /* 0 */
/* 954 */ NdrFcShort( 0x18 ), /* 24 */
/* 956 */ NdrFcShort( 0x0 ), /* 0 */
/* 958 */ NdrFcShort( 0xfffffc44 ), /* Offset= -956 (2) */
/* 960 */
/* FC_UP [allocated_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,
    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, */
        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, */
#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 */
#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, */
#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
#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 */
#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
#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 ), /*
0 */
/* 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 */
FC_PP */ 0x4b, /*
FC_PAD */ 0x5c, /*
/* 430 */
FC_VARIABLE_REPEAT */ 0x48, /*
FC_FIXED_OFFSET */ 0x49, /*
/* 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( 0xfffff6e ), /* Offset= -
146 (298) */
/* 446 */
FC_END */ 0x5b, /*
FC_LONG */ 0x8, /*
/* 448 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */ 0x16, /*
/* 450 */
FC_PSTRUCT */ 0x3, /*
3 */
/* 452 */ NdrFcShort( 0x8 ), /* 8 */
/* 454 */
FC_PP */ 0x4b, /*
FC_PAD */ 0x5c, /*
/* 456 */
FC_NO_REPEAT */ 0x46, /*

```

```

FC_PAD */ 0x5c, /*
/* 458 */ NdrFcShort( 0x4 ), /* 4 */
/* 460 */ NdrFcShort( 0x4 ), /* 4 */
/* 462 */ 0x11, 0x0, /* FC_RP */
/* 464 */ NdrFcShort( 0xffffffff4 ), /* Offset= -
44 (420) */
/* 466 */
FC_END */ 0x5b, /*
FC_LONG */ 0x8, /*
/* 468 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */ 0x21, /*
/* 470 */
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 */ 0x1a, /*
/* 488 */
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 */ /* FC_PAD */
/* 498 */ 0x5c, 0x5b, /*
FC_END */ 0x11, 0x0, /*
/* 500 */
FC_RP */
/* 502 */ NdrFcShort( 0xffffffe0 ), /* Offset= -
32 (470) */
/* 504 */
FC_BOGUS_ARRAY */ 0x21, /*
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 */ 0x1a, /*
/* 522 */
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 */ /* FC_PAD */
/* 532 */ 0x5c, 0x5b, /*
FC_END */ 0x11, 0x0, /*
/* 534 */
FC_RP */
/* 536 */ NdrFcShort( 0xffffffe0 ), /* Offset= -
32 (504) */
/* 538 */
FC_CARRAY */ 0x1b, /*
3 */ 0x3, /*
/* 540 */ NdrFcShort( 0x4 ), /* 4 */
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
/* 544 */ NdrFcShort( 0x0 ), /* 0 */
/* 546 */
FC_PP */ 0x4b, /*
FC_PAD */ 0x5c, /*
/* 548 */
FC_VARIABLE_REPEAT */ 0x48, /*
FC_FIXED_OFFSET */ 0x49, /*
/* 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 */
FC_END */
0x5b, /*
0x8, /*
FC_LONG */
/* 566 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 568 */
FC_BOGUS_STRUCT */
0x1a, /*
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 */
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 */
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 */
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( 0xfffffd4 ), /* 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( 0xfffffd4 ), /* Offset= -
44 (632) */
/* 678 */
0x1d, /*
FC_SMFARRAY */
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( 0xfffff1
), /* 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 */
                                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( 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 */
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=2), 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={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
};

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,          */
        /*          0x6c,          */
        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 */
        /*          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 */
        /*          0x0,          */
        0 /*
        /* Procedure Payment */

        /* 44 */ 0x33, /* FC_AUTO_HANDLE */
        /*          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, */
        /*          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 */
0 */ 0x0, /*
*/
/* 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 */
0x0
}
};
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 */ 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( 0xffff ), /* -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 */
FC_IP */
/* 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( 0xfffff74 ), /* 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( 0xfffff5dc ), /* 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( 0xfffff58 ), /* 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( 0xfffff5dc ), /* 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( 0xfffff44 ), /* 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( 0xfffff5dc ), /* 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( 0xfffff5dc ), /* Offset= -
36 (538) */
/* 576 */
0x2f, /*
FC_IP */

```

```

0x5a, /*
FC_CONSTANT_IID */
/* 578 */ NdrFcLong( 0x2f ), /* 47 */
/* 582 */ NdrFcShort( 0x0 ), /* 0 */
/* 584 */ NdrFcShort( 0x0 ), /* 0 */
/* 586 */ 0xc0, /* 192 */
0 /*
/* 588 */ 0x0, /* 0 */
0 /*
/* 590 */ 0x0, /* 0 */
0 /*
/* 592 */ 0x0, /* 0 */
70 /*
/* 594 */
FC_CARRAY */
0x1b, /*
0x0, /*
0 /*
/* 596 */ NdrFcShort( 0x1 ), /* 1 */
/* 598 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 600 */ NdrFcShort( 0x4 ), /* 4 */
/* 602 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 604 */ 0x1, /* FC_BYTE */
0x5b, /*
FC_END */
/* 606 */
FC_BOGUS_STRUCT */
0x1a, /*
0x3, /*
3 */
/* 608 */ NdrFcShort( 0x18 ), /* 24 */
/* 610 */ NdrFcShort( 0x0 ), /* 0 */
/* 612 */ NdrFcShort( 0xc ), /* Offset= 12 (624) */
/* 614 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 616 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 618 */ NdrFcShort( 0xfffffd6 ), /* Offset= -
42 (576) */
/* 620 */ 0x39, /* FC_ALIGNM8 */
0x36, /*
FC_POINTER */
/* 622 */ 0x5c, /* FC_PAD */
0x5b, /*
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 */
0x5b, /*
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 */
0x39, /*
FC_ALIGNM8 */
/* 660 */ 0x36, /* FC_POINTER */
0x5b, /*
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 */
0x5b, /*
FC_END */
/* 672 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 674 */ NdrFcShort( 0x10 ), /* 16 */
/* 676 */ 0x8, /* FC_LONG */
0x6, /*
FC_SHORT */
/* 678 */ 0x6, /* FC_SHORT */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 680 */ 0x0, /* 0 */

```

```

NdrFcShort( 0xffffffff
), /* Offset= -15 (666) */
0x5b, /*
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 */
0x39, /*
FC_ALIGNM8 */
/* 694 */ 0x36, /* FC_POINTER */
0x4c, /*
FC_EMBEDDED_COMPLEX */
/* 696 */ 0x0, /* 0 */
NdrFcShort( 0xfffffe7
), /* Offset= -25 (672) */
0x5b, /*
FC_END */
/* 700 */
0x11, 0x0, /*
FC_RP */
/* 702 */ NdrFcShort( 0xfffff10 ), /* 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 */
0x5b, /*
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 */
0x39, /*
FC_ALIGNM8 */
/* 726 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 728 */
0x12, 0x0, /*
FC_UP */
/* 730 */ NdrFcShort( 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 */
0x1a, /*
FC_BOGUS_STRUCT */
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( 0xffffffe6 ), /* 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 */
0x12, 0x0, /*
FC_UP */
/* 786 */ NdrFcShort( 0xffffffe6 ), /* 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( 0xffffffe6 ), /* 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 DEFCLPACKSIZE
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:
            dbexit(); //
            close all dblib structures/connections
            break;

        default:
            /* nothing */;
    }
    return TRUE;
}
```

```
int err_handler(DBPROCESS *dbproc, int severity, int
dberr, int oserr, LPCSTR dberrstr, LPCSTR oserrstr)
{
    CTPCC_DBLIB
    *pConn;

    assert(dbproc != NULL);
    pConn =
    (CTPCC_DBLIB*)dbgetuserdata(dbproc);

    if (pConn != NULL)
    {
        pConn->SetDbLibError( severity,
        dberr, oserr, dberrstr, oserrstr );
    }
    return INT_CANCEL;
}

/* FUNCTION: int msg_handler(DBPROCESS *dbproc, DBINT
msgno, int msgstate, int severity, char *msgtext)
 *
 * PURPOSE: This function handles DB-Library
SQL Server error messages
 *
 * ARGUMENTS: DBPROCESS *dbproc
DBPROCESS id pointer
DBINT
 *
 * message number
int
 *
 * message state
msgstate
int
 *
 * message severity
severity
 *
 * char
printable
 *
 * msgtext
 *
 * 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_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 dlib 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 DLib 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) != SUCCEED)
            ThrowError(CDBLIBERR::eDbResults);

            if
(dbnumcols(m_dbproc) != 5)
            ThrowError(CDBLIBERR::eWrongNumCols);

            if
(dbnextrow(m_dbproc) != REG_ROW)
            ThrowError(CDBLIBERR::eDbNextRow);

            if(pData=dbdata(m_dbproc, 1))
            UtilStrCpy(m_txn.NewOrder.OL[i].ol_i_name,
pData, dbdatlen(m_dbproc, 1));

            if(pData=dbdata(m_dbproc, 2))
            m_txn.NewOrder.OL[i].ol_stock =
(*DBSMALLINT *) pData);

            if(pData=dbdata(m_dbproc, 3))
            UtilStrCpy(m_txn.NewOrder.OL[i].ol_brand_ge
neric, pData, dbdatlen(m_dbproc, 3));

            if(pData=dbdata(m_dbproc, 4))
            dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,4),
SQLFLT8, (BYTE
*)&m_txn.NewOrder.OL[i].ol_i_price, 8);

            if(pData=dbdata(m_dbproc, 5))

            dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,5),
SQLFLT8, (BYTE
*)&m_txn.NewOrder.OL[i].ol_amount, 8);

```

```

        m_txn.NewOrder.total_amount =
m_txn.NewOrder.total_amount +
m_txn.NewOrder.OL[i].ol_amount;

        DiscardNextRows(0);
    }

        // get remaining values
for w_tax, d_tax, o_id, c_last, c_discount, c_credit,
o_entry_d, commit_flag
        if (dbresults(m_dbproc)
!= SUCCEED)
            ThrowError(CDBLIBERR::eDbResults);

        if (dbnextrow(m_dbproc)
!= REG_ROW)
            ThrowError(CDBLIBERR::eDbNextRow);

        if (dbnumcols(m_dbproc)
!= 8)
            ThrowError(CDBLIBERR::eWrongNumCols);

        if
(pData=dbdata(m_dbproc, 1))
            dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,1), SQLFLT8, (BYTE
*)&m_txn.NewOrder.w_tax, 8);

        if
(pData=dbdata(m_dbproc, 2))
            dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,2), SQLFLT8, (BYTE
*)&m_txn.NewOrder.d_tax, 8);

        if
(pData=dbdata(m_dbproc, 3))
            m_txn.NewOrder.o_id = (*DBINT *) pData);

        if
(pData=dbdata(m_dbproc, 4))
            UtilStrCpy(m_txn.NewOrder.c_last, pData,
dbdatlen(m_dbproc, 4));

        if
(pData=dbdata(m_dbproc, 5))
            dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,5), SQLFLT8, (BYTE
*)&m_txn.NewOrder.c_discount, 8);

        if
(pData=dbdata(m_dbproc, 6))

```

```

        UtilStrCpy(m_txn.NewOrder.c_credit, pData,
dbdatlen(m_dbproc, 6));
        if
(pData=dbdata(m_dbproc, 7))
        {
            datetime =
*(DBDATETIME *) pData);
            dbdatecrack(m_dbproc, &daterec, &datetime);
            m_txn.NewOrder.o_entry_d.year =
daterec.year;
            m_txn.NewOrder.o_entry_d.month =
daterec.month;
            m_txn.NewOrder.o_entry_d.day =
daterec.day;
            m_txn.NewOrder.o_entry_d.hour =
daterec.hour;
            m_txn.NewOrder.o_entry_d.minute =
daterec.minute;
            m_txn.NewOrder.o_entry_d.second =
daterec.second;
        }
        if
(pData=dbdata(m_dbproc, 8))
            commit_flag =
(*DBTINYINT *) pData);

            DiscardNextRows(0);
            DiscardNextResults(0);

            if (commit_flag == 1)
            {
                m_txn.NewOrder.total_amount *= ((1 +
m_txn.NewOrder.w_tax + m_txn.NewOrder.d_tax) * (1 -
m_txn.NewOrder.c_discount));

                m_txn.NewOrder.exec_status_code = eOK;
            }
            else
                m_txn.NewOrder.exec_status_code =
eInvalidItem;

            return;
        }
        catch (CSQLERR *e)
        {
            if ((e->m_msgno == 1205
||
== 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::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)
!= SUCCEED)
                ThrowError(CDBLIBERR::eDbResults);

            if (dbnextrow(m_dbproc)
!= REG_ROW)
                ThrowError(CDBLIBERR::eDbNextRow);

            if (dbnumcols(m_dbproc)
!= 27)
                ThrowError(CDBLIBERR::eWrongNumCols);

            if
(pData=dbdata(m_dbproc, 1))
                m_txn.Payment.c_id = *((DBINT *) pData);
            if
(pData=dbdata(m_dbproc, 2))
                UtilStrCpy(m_txn.Payment.c_last, pData,
dbdatlen(m_dbproc, 2));
            if
(pData=dbdata(m_dbproc, 3))
                {
                    datetime =
*((DBDATETIME *) pData);
                    dbdatecrack(m_dbproc, &daterec, &datetime);
                    m_txn.Payment.h_date.year = daterec.year;
                    m_txn.Payment.h_date.month =
daterec.month;
                    m_txn.Payment.h_date.day = daterec.day;
                    m_txn.Payment.h_date.hour = daterec.hour;
                    m_txn.Payment.h_date.minute =
daterec.minute;
                    m_txn.Payment.h_date.second =
daterec.second;
                }
            if
(pData=dbdata(m_dbproc, 4))
                UtilStrCpy(m_txn.Payment.w_street_1, pData,
dbdatlen(m_dbproc, 4));

```

```

            if
(pData=dbdata(m_dbproc, 5))
                UtilStrCpy(m_txn.Payment.w_street_2, pData,
dbdatlen(m_dbproc, 5));
            if
(pData=dbdata(m_dbproc, 6))
                UtilStrCpy(m_txn.Payment.w_city, pData,
dbdatlen(m_dbproc, 6));
            if
(pData=dbdata(m_dbproc, 7))
                UtilStrCpy(m_txn.Payment.w_state, pData,
dbdatlen(m_dbproc, 7));
            if
(pData=dbdata(m_dbproc, 8))
                UtilStrCpy(m_txn.Payment.w_zip, pData,
dbdatlen(m_dbproc, 8));
            if
(pData=dbdata(m_dbproc, 9))
                UtilStrCpy(m_txn.Payment.d_street_1, pData,
dbdatlen(m_dbproc, 9));
            if
(pData=dbdata(m_dbproc, 10))
                UtilStrCpy(m_txn.Payment.d_street_2, pData,
dbdatlen(m_dbproc, 10));
            if
(pData=dbdata(m_dbproc, 11))
                UtilStrCpy(m_txn.Payment.d_city, pData,
dbdatlen(m_dbproc, 11));
            if
(pData=dbdata(m_dbproc, 12))
                UtilStrCpy(m_txn.Payment.d_state, pData,
dbdatlen(m_dbproc, 12));
            if
(pData=dbdata(m_dbproc, 13))
                UtilStrCpy(m_txn.Payment.d_zip, pData,
dbdatlen(m_dbproc, 13));
            if
(pData=dbdata(m_dbproc, 14))
                UtilStrCpy(m_txn.Payment.c_first, pData,
dbdatlen(m_dbproc, 14));
            if
(pData=dbdata(m_dbproc, 15))
                UtilStrCpy(m_txn.Payment.c_middle, pData,
dbdatlen(m_dbproc, 15));
            if
(pData=dbdata(m_dbproc, 16))
                UtilStrCpy(m_txn.Payment.c_street_1, pData,
dbdatlen(m_dbproc, 16));
            if
(pData=dbdata(m_dbproc, 17))

```



```

rc =
dbnextrow(m_dbproc);
NO_MORE_ROWS)
break;
REG_ROW)
ThrowError(CDBLIBERR::eDbNextRow);
if(pData=dbdata(m_dbproc, 1))
m_txn.OrderStatus.OL[i].ol_supply_w_id =
(* (DBSMALLINT *) pData);
if(pData=dbdata(m_dbproc, 2))
m_txn.OrderStatus.OL[i].ol_i_id = (* (DBINT
*) pData);
if(pData=dbdata(m_dbproc, 3))
m_txn.OrderStatus.OL[i].ol_quantity =
(* (DBSMALLINT *) pData);
if(pData=dbdata(m_dbproc, 4))
dbconvert(m_dbproc, SQLNUMERIC,
(LPCBYTE)pData, dbdatlen(m_dbproc,4),
SQLFLT8, (BYTE
*)&m_txn.OrderStatus.OL[i].ol_amount, 8);
if(pData=dbdata(m_dbproc, 5))
{
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 WINAPI 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);
}

tpcc_odbch


---


/*      FILE:          TPCC_ODBC.H
*
*      TPC-C Kit Ver. 4.20.000
*
*      Microsoft
*      Copyright
*      Microsoft, 1999
*      All Rights Reserved
*

```

```

*
*      Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
*
*      PURPOSE:  Header file for TPC-C txn class
implementation.
*
*      Change history:
*      4.20.000 - updated rev number to
match kit
*/
#pragma once

// need to declare functions for import, unless
define has already been created
// by the DLL's .cpp module for export.
#ifdef DllDecl
#define DllDecl __declspec( dllimport )
#endif

class 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;
// 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
        SQLUIINTEGER m_BindOffset;
        int
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 dlib, 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[MAX_OL_NEW_ORDER_ITEMS];
} 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;

```

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
{
    31 BYTE OL_Count; //range 0 to
    31 BYTE OL_Remote_Count; //range 0 to
    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
field
} 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;
// menu time (ms)

    int    DeltaT2;
// keying time (ms)

    int    DeltaT3;
// think time (ms)

    int    DeltaT4;
// response time (ms)

    int    RTDelay;
// response time delay (ms)

    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]
//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;
    __int64    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
//
iFilePointer;
//position in file.
    LARGE_INTEGER  lFilePointer;
//map file used when
    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];
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
pTxnRcnd);
    int
WriteToLog(PTXN_RECORD_TPCC_DELIV_DEF pTxnRcnd);
    int
WriteToLog(PTXN_RECORD_CONTROL pCtrlRec);
    int 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) {}

ERR_TYPE_TXNLOG;

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 tpccback1, tpccback2, tpccback3
with init, stats = 1

select @enddate = getdate()
select "End date: ", convert(varchar(30),@enddate,9)
select "Elapsed time (in seconds): ",
datediff(second, @startdate, @enddate)

go
```

backupdev.sql

```
-- File:      BACKUPDEVB.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates tpcc database Backup Devices

use master
go

-- create backup devices

exec sp_addumpdevice
'disk','tpccback1','X:\tpccback1.dmp'
```

```

go
exec sp_addumpdevice
'disk','tpccback2','Y:\tpccback2.dmp'
go
exec sp_addumpdevice
'disk','tpccback3','Z:\tpccback3.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

```

```

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 = 46983MB,
    FILEGROWTH = 0),
(
    NAME = MSSQL_cs2,

```

```

    FILENAME = "G:",
    SIZE = 46983MB,
    FILEGROWTH = 0),
(
    NAME = MSSQL_cs3,
    FILENAME = "H:",
    SIZE = 46983MB,
    FILEGROWTH = 0),

```

```

FILEGROUP MSSQL_misc_fg
(

```

```

    NAME = MSSQL_misc1,
    FILENAME = "I:",
    SIZE = 22850MB,
    FILEGROWTH = 0),
(
    NAME = MSSQL_misc2,
    FILENAME = "J:",
    SIZE = 22850MB,
    FILEGROWTH = 0),
(
    NAME = MSSQL_misc3,
    FILENAME = "K:",
    SIZE = 22850MB,
    FILEGROWTH = 0)

```

```

LOG ON
(

```

```

    NAME =MSSQL_tpcc_log,
    FILENAME = "E:",
    SIZE =138000MB,
    FILEGROWTH =0)

```

```

COLLATE Latini_General_Bin
go

```

```

-- 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", 3
exec sp_configure "cost threshold for parallelism",
5
exec sp_configure "index create memory", 704
exec sp_configure "lightweight pooling", 1
exec sp_configure "awe enabled", 1
exec sp_configure "locks", 0
exec sp_configure "max degree of parallelism", 1
exec sp_configure "max server memory", 1
2147483647
exec sp_configure "max worker threads", 700
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", 4096
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

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
new_order (serializable)
from
new_order
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
        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
        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,
TPCCCLR_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 =
DEFLDPACKSIZE;
pargs->starting_warehouse =
DEF_STARTING_WAREHOUSE;
pargs->build_index =
BUILD_INDEX;
pargs->index_order =
INDEX_ORDER;
pargs->index_script_path =
INDEX_SCRIPT_PATH;
pargs->scale_down =
SCALE_DOWN;

/* check for zero command line args */
if ( argc == 1 )
    GetArgsLoaderUsage();

for ( i = 1; i < argc; ++i)
{
    if (argv[i][0] != '-' &&
argv[i][0] != '/')
    {
        printf("\nUnrecognized command");
        GetArgsLoaderUsage();
        exit(1);
    }

    ptr = argv[i];

    switch (ptr[1])
    {
        case 'h': /* Fall through */
        case 'H':
            GetArgsLoaderUsage();
            break;

        case 'D':
            pargs->
>database = ptr+2;
            break;

        case 'P':
            pargs->
>password = ptr+2;

```

```

                break;
            case 'S':
                pargs->server
                break;
            case 'U':
                pargs->user =
                break;
            case 'b':
                pargs->batch
                break;
            case 'W':
                pargs-
                break;
            >num_warehouses = atol(ptr+2);
            case 's':
                pargs-
                break;
            >starting_warehouse = atol(ptr+2);
            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;
                pargs-
                break;
            case 'p':
                pargs-
                break;
            case 'i':
                pargs-
                break;
            case 'o':
                pargs-
                break;
            case 'c':
                pargs-
                break;
            case 'd':
                pargs-
                break;
            >index_script_path = ptr+2;
            default:
                GetArgsLoaderUsage();
                exit(-1);
                break;
        }
    }
    /* check for required args */
    if (pargs->num_warehouses == UNDEF )
    {
        printf("Number of Warehouses is
        required\n");
        exit(-2);
    }
    return;
}

//=====
//
// Function name: GetArgsLoaderUsage
//
//=====
void GetArgsLoaderUsage()
{
    #ifdef DEBUG
        printf("[%ld]DBG: Entering
        GetArgsLoaderUsage()\n", (int) GetCurrentThreadId());
    #endif

```

```

        printf("TPCCLDR:\n\n");
        printf("Parameter
        Default\n");
        printf("-----\n");
        printf("-W Number of Warehouses to Load
        Required \n");
        printf("-S Server
        %s\n", SERVER);
        printf("-U Username
        %s\n", USER);
        printf("-P Password
        %s\n", PASSWORD);
        printf("-D Database
        %s\n", DATABASE);
        printf("-b Batch Size
        %ld\n", (long) BATCH);
        printf("-p TDS packet size
        %ld\n", (long) DEFLDPAKSIZE);
        printf("-f Loader Results Output Filename
        %s\n", LOADER_RES_FILE);
        printf("-s Starting Warehouse
        %ld\n", (long) DEF_STARTING_WAREHOUSE);
        printf("-i Build Option (data = 0, data and
        index = 1) %ld\n", (long) BUILD_INDEX);
        printf("-o Cluster Index Build Order
        (before = 1, after = 0) %ld\n", (long) INDEX_ORDER);
        printf("-c Build Scaled Database (normal =
        0, tiny = 1) %ld\n", (long) SCALE_DOWN);
        printf("-d Index Script Path
        %s\n", INDEX_SCRIPT_PATH);
        printf("-t Table to Load
        all tables \n");
        printf(" [item|warehouse|customer|orders]\n");
        printf(" Notes: \n");
        printf(" - the '-t' parameter may be included
        multiple times to \n");
        printf(" specify multiple tables to be
        loaded \n");
        printf(" - 'item' loads ITEM table \n");
        printf(" - 'warehouse' loads WAREHOUSE,
        DISTRICT, and STOCK tables \n");
        printf(" - 'customer' loads CUSTOMER and
        HISTORY tables \n");
        printf(" - 'orders' load NEW-ORDER, ORDERS,
        ORDER-LINE tables \n");

        printf("\nNote: Command line switches are
        case sensitive.\n");
        exit(0);
    }
}

```

idxcuscl.sql

```
-- File: IDXCUSCL.SQL
```

```

--          Microsoft TPC-C Benchmark Kit Ver. 4.22
--          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_cl' )
    drop index order_line.order_line_cl

create unique clustered index order_line_cl on
order_line(ol_w_id, ol_d_id, ol_o_id, ol_number)
on MSSQL_misc_fg

select @enddate = getdate()
select "End date: ", convert(varchar(30),@enddate,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_cl' )
    drop index orders.orders_cl

create unique clustered index orders_cl on
orders(o_w_id, o_d_id, o_id)
on MSSQL_misc_fg

select @enddate = getdate()
select "End date: ", convert(varchar(30),@enddate,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_cl' )
    drop index stock.stock_cl

create unique clustered index stock_cl 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_cl' )
    drop index warehouse.warehouse_cl

create unique clustered index warehouse_cl 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
                    when 1
@ol_qty1
                    when 2
@ol_qty2
                    when 3
@ol_qty3
                    when 4
@ol_qty4
                    when 5
@ol_qty5
                    when 6
@ol_qty6
                    when 7
@ol_qty7
                    when 8
@ol_qty8
                    when 9
@ol_qty9
                    when 10
@ol_qty10
                    when 11
@ol_qty11
                    when 12
@ol_qty12
                    when 13
@ol_qty13
                    when 14
@ol_qty14
                    when 15
@ol_qty15
                end,
        @li_qty = case @li_no
                    when 1 then
@ol_qty1
                    when 2 then
@ol_qty2
                    when 3 then
@ol_qty3
                    when 4 then
@ol_qty4

```

```

when 5 then
@ol_qty5
when 6 then
@ol_qty6
when 7 then
@ol_qty7
when 8 then
@ol_qty8
when 9 then
@ol_qty9
when 10
then @ol_qty10
when 11
then @ol_qty11
when 12
then @ol_qty12
when 13
then @ol_qty13
when 14
then @ol_qty14
when 15
then @ol_qty15
end

-- get item data (no one updates item)
select @i_price = i_price,
       @i_name = i_name,
       @i_data = i_data
from   item (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

-- 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
```

```
(count(*)+1)/2  
(repeatableread)  
select @cnt =  
from customer  
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 =
```

```
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,

           @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("[%ld]DBG: Entering seed()...\n", (int)
GetCurrentThreadId());
    printf("Old Seed %ld New Seed %ld\n",Seed,
val);
#endif

    if ( val < 0 )
        val = abs(val);

    Seed = val;
}

/*****
*****
*
* irand - returns a 32 bit integer pseudo random
number with a period of
* 1 to 2 ^ 32 - 1.
*
* parameters:
*
* none.
*
* returns:
*
* 32 bit integer - defined as long ( see above )
*
* side effects:
*
* seed get recomputed.
*****
*****/

long irand()
{
    register long      s;      /* copy of seed */
    register long      test;   /* test flag */
    register long      hi;     /* tmp value for speed */
    register long      lo;     /* tmp value for speed */

#ifdef DEBUG
    printf("[%ld]DBG: Entering irand()...\n", (int)
GetCurrentThreadId());
#endif

    s = Seed;
    hi = s / Q;
    lo = s % Q;

    test = A * lo - R * hi;
    if ( test > 0 )

```

```

else
    Seed = test;
    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
}
}

```

```

(int)
GetCurrentThreadId(), lower, upper, rand_num);
#endif

return rand_num;
}

#ifdef 0

//Original code pgd 08/13/96

long RandomNumber(long lower,
                    long upper)
{
    long rand_num;

#ifdef DEBUG
    printf("[%ld]DBG: Entering RandomNumber()...\n",
(int) GetCurrentThreadId());
#endif

    upper++;

    if (upper <= lower)
        rand_num = upper;
    else
        rand_num = lower + irand() %
((upper > lower) ? upper - lower : upper);

#ifdef DEBUG
    printf("[%ld]DBG: RandomNumber between %ld & %ld
=> %ld\n",
(int)
GetCurrentThreadId(), lower, upper, rand_num);
#endif

return rand_num;
}
#endif

//=====
// Function : NURand
// Description:
//=====
long NURand(int iConst,
            long x,
            long y,
            long C)
{
    long rand_num;

#ifdef DEBUG
    printf("[%ld]DBG: Entering NURand()...\n", (int)
GetCurrentThreadId());
#endif
}

```

```

rand_num = (((RandomNumber(0,iConst) |
RandomNumber(x,y)) + C) % (y-x+1))+x;

#ifdef DEBUG
    printf("[%ld]DBG: NURand: num = %d\n", (int)
GetCurrentThreadId(), rand_num);
#endif

return rand_num;
}

```

removedb.sql

```

-- File:      REMOVEDB.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Removes tpcc database and backup files

use master
go

-- remove any existing database and backup files

exec sp_dbremove tpcc, dropdev
go

exec sp_dropdevice 'tpccback1'
exec sp_dropdevice 'tpccback2'
exec sp_dropdevice 'tpccback3'
go

```

restore.sql

```

-- File:      RESTORE.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Loads database backup from backup files

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select "Start date:",
convert(varchar(30),@startdate,9)

load database tpcc from tpccback1, tpccback2,
tpccback3 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))
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("[%d]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("[%d]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("[%d]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("[%d]DBG: LastName: num = [%d] ==>
[%d][%d][%d]\n",
(int)
GetCurrentThreadId(), num, num/100, (num/10)%10,
num%10);
    printf("[%d]DBG: LastName: String = %s\n",
(int) GetCurrentThreadId(), name);
#endif

    return;
}

//=====
//
```

```

// Function name: MakeAlphaString
//
//=====
//philipdu 08/13/96 Changed MakeAlphaString to use A-
Z, a-z, and 0-9 in
//accordance with spec see below:
//The spec says:
//4.3.2.2 The notation random a-string [x .. y]
//(respectively, n-string [x .. y]) represents a
string of random alphanumeric
//(respectively, numeric) characters of a random
length of minimum x, maximum y,
//and mean (y+x)/2. Alphanumerics are A..Z, a..z, and
0..9. The only other
//requirement is that the character set used "must be
able to represent a minimum
//of 128 different characters". We are using 8-bit
chars, so this is a non issue.
//It is completely unreasonable to stuff non-printing
chars into the text fields.
//--CLevine 08/13/96

int MakeAlphaString( int x, int y, int z, char
*str)
{
    int len;
    int i;
    char cc = 'a';
    static char chArray[] =
"0123456789ABCDEFGHIJKLMNQRSTUUVWXYZabcdefghijklmnopqrstuvwxyz";
    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);
        strncpy(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, 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 Microsoft
// TPC-C Kit Ver. 4.22 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: TPCC.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;
} TPCC_LDR_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: TPCC_LDR.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 ChecksSQL();
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
    // problem.
    // 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
HDBC i_hdbc1;
// for ITEM table
HDBC w_hdbc1;
// for WAREHOUSE, DISTRICT, STOCK
HDBC c_hdbc1;
// for CUSTOMER
HDBC c_hdbc2;
// for HISTORY
HDBC o_hdbc1;
// for ORDERS
HDBC o_hdbc2;
// for NEW-ORDER
HDBC o_hdbc3;
// for ORDER-LINE
HSTMT v_hstmt;
// for SQL Server version verification
HSTMT i_hstmt1;
HSTMT w_hstmt1;
HSTMT c_hstmt1, c_hstmt2;
HSTMT o_hstmt1, o_hstmt2, o_hstmt3;

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;

TPCCLDR_ARGS *aptr, args;

```

```

//=====
//
// Function name: main
//
//=====
int main(int argc, char **argv)
{
    DWORD
dwThreadID[MAX_MAIN_THREADS];
HANDLE hThread[MAX_MAIN_THREADS];
FILE *fLoader;
char buffer[255];
int i;

for (i=0; i<MAX_MAIN_THREADS; i++)
    hThread[i] = NULL;

printf("\n*****
*****");
printf("\n*
*");
printf("\n* Microsoft SQL Server
*");
printf("\n*
*");
printf("\n* TPC-C BENCHMARK KIT: Database
loader *");
printf("\n* Version %s
*", TPCKIT_VER);
printf("\n*
*");
printf("\n*****
*****\n");

// 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("idxitm1");
    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 bcp[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,
"logswarehouse.err", DB_IN);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    if ((aptr->build_index == 1) && (aptr-
>index_order == 1))
    {

```

```

        sprintf(bcp, "tablock, order
(w_id), ROWS_PER_BATCH = %d", aptr->num_warehouses);
        rc = bcp_control(w_hdbc1,
BCPHINTS, (void*) bcp);
        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_hstmc1,
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 != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

if ((aptr->build_index == 1) && (aptr->index_order == 1))
{
    sprintf(bcphint, "tablock, order
(d_w_id, d_id), ROWS_PER_BATCH = %u", (aptr->num_warehouses * 10));
    rc = bcp_control(w_hdbc1,
BCPHINTS, (void*) bcphint);
    if (rc != SUCCEEDED)

        HandleErrorDBC(w_hdbc1);
}

rc = bcp_bind(w_hdbc1, (BYTE *) &d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 1);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &d_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_name, 0,
D_NAME_LEN, NULL, 0, 0, 3);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_street_1,
0, ADDRESS_LEN, NULL, 0, 0, 4);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

```

```

rc = bcp_bind(w_hdbc1, (BYTE *) d_street_2,
0, ADDRESS_LEN, NULL, 0, 0, 5);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_city, 0,
ADDRESS_LEN, NULL, 0, 0, 6);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_state, 0,
STATE_LEN, NULL, 0, 0, 7);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_zip, 0,
ZIP_LEN, NULL, 0, 0, 8);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &d_tax, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 9);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &d_ytd, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 10);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *)
&d_next_o_id, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT4,
11);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

d_ytd = 30000.0;

d_next_o_id = orders_per_district+1;

time_start = (TimeNow() / MILLI);

for (w_id = aptr->starting_warehouse; w_id
<= aptr->num_warehouses; w_id++)
{
    d_w_id = w_id;

    for (d_id = 1; d_id <=
DISTRICT_PER_WAREHOUSE; d_id++)
    {
        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 != SUCCEEDED)

```

```

        HandleErrorDBC(w_hdbc1);

                                district_rows_loaded++;
                                CheckForCommit(w_hdbc1,
w_hstmt1, district_rows_loaded, "district",
&time_start);
    }
}

rcint = bcp_done(w_hdbc1);
if (rcint < 0)
    HandleErrorDBC(w_hdbc1);

printf("Finished loading district
table.\n");

// if build index after load...
if ((aptr->build_index == 1) && (aptr->index_order == 0))
    BuildIndex("idxdiscl");

return;
}

//=====
//
// Function   : Stock
//
//=====
void Stock()
{
    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);

rc = 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
reclen, 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("idxcuscl");

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

rc = bcp_init(c_hdbc1, name, NULL,
"logs\\customer.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,
"logs\\history.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);
        }

        // Start History table
thread

        printf("...Loading
history table for: d_id = %d, w_id = %d\n", d_id,
w_id);

        hThread[1] =
CreateThread(NULL,
0,

(LPTHREAD_START_ROUTINE) LoadHistoryTable,
&history_time_start,
0,

&dwThreadId[1]);

        if (hThread[1] == NULL)
        {
            printf("Error, failed in creating creating
thread = 1.\n");
            exit(-1);
        }

        WaitForSingleObject(
hThread[0], INFINITE);
        WaitForSingleObject(
hThread[1], INFINITE);

        if
(CloseHandle(hThread[0]) == FALSE)
        {
            printf("Error, failed in closing customer
thread handle with errno: %d\n", GetLastError());
        }

        if
(CloseHandle(hThread[1]) == FALSE)

```

```

        {
            printf("Error, failed in closing history
thread handle with errno: %d\n", GetLastError());
        }
    }

    // flush the bulk connection
    rcint = bcp_done(c_hdbc1);
    if (rcint < 0)
        HandleErrorDBC(c_hdbc1);

    rcint = bcp_done(c_hdbc2);
    if (rcint < 0)
        HandleErrorDBC(c_hdbc2);

    printf("Finished loading customer
table.\n");

    // if build index after load...
    if ((aptr->build_index == 1) && (aptr-
>index_order == 0))
        BuildIndex("idxcuscl");

    // 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;

```

```

0;
customer_buf[i].c_delivery_cnt =
// 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] =
'O';
customer_buf[i].c_middle[1] =
'E';

MakeAddress(customer_buf[i].c_street_1,
customer_buf[i].c_street_2,
customer_buf[i].c_city,
customer_buf[i].c_state,
customer_buf[i].c_zip);

MakeNumberString(16, 16,
PHONE_LEN, customer_buf[i].c_phone);

if (RandomNumber(1L, 100L) > 10)
customer_buf[i].c_credit[0] = 'G';
else
customer_buf[i].c_credit[0] = 'B';
customer_buf[i].c_credit[1] =
'C';

customer_buf[i].c_credit_lim =
50000.0;
customer_buf[i].c_discount =
((float) RandomNumber(0L, 5000L) / 10000.0;

// 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

// 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);

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 != SUCCEEDED)
            HandleErrorDBC(c_hdbc2);

        rc = bcp_bind(c_hdbc2, (BYTE *) &h_amount, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 7);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc2);

        rc = bcp_bind(c_hdbc2, (BYTE *) h_data, 0,
H_DATA_LEN, NULL, 0, 0, 8);
        if (rc != SUCCEEDED)
            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 != SUCCEEDED)

                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                  d_id;          w_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("idxordcl");
        BuildIndex("idxnodcl");
        BuildIndex("idxodlcl");
    }

    // 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 thread

                printf("...Loading New-Order Table for: d_id = %d, w_id = %d\n", d_id, w_id);

                hThread[1] = CreateThread(NULL, 0, (LPTHREAD_START_ROUTINE) LoadNewOrderTable, &new_order_time_start, 0, &dwThreadID[1]);

                if (hThread[1] == NULL)

```

```

        printf("Error, failed in creating creating
thread = 1.\n");
        exit(-1);
    }
    // start Order-Line
table thread
        printf("...Loading
Order-Line Table for: d_id = %d, w_id = %d\n", d_id,
w_id);
        hThread[2] =
CreateThread(NULL,
            0,
(LPTHREAD_START_ROUTINE) LoadOrderLineTable,
&order_line_time_start,
            0,
&dwThreadID[2]);
        if (hThread[2] == NULL)
        {
            printf("Error, failed in creating creating
thread = 2.\n");
            exit(-1);
        }
        WaitForSingleObject(
hThread[0], INFINITE );
        WaitForSingleObject(
hThread[1], INFINITE );
        WaitForSingleObject(
hThread[2], INFINITE );
        if
(CloseHandle(hThread[0]) == FALSE)
        {
            printf("Error, failed in closing Orders
thread handle with errno: %d\n", GetLastError());
        }
        if
(CloseHandle(hThread[1]) == FALSE)
        {
            printf("Error, failed in closing NewOrder
thread handle with errno: %d\n", GetLastError());
        }
        if
(CloseHandle(hThread[2]) == FALSE)
        {

```

```

        printf("Error, failed in closing OrderLine
thread handle with errno: %d\n", GetLastError());
    }
    }
    printf("Finished loading orders.\n");

return;
}

//=====
// Function : OrdersBufInit
// Clears shared buffer for ORDERS, NEWORDER, and
ORDERLINE
//=====
void OrdersBufInit()
{
    int i;
    int j;

    for (i=0;i<orders_per_district;i++)
    {
        orders_buf[i].o_id = 0;
        orders_buf[i].o_d_id = 0;
        orders_buf[i].o_w_id = 0;
        orders_buf[i].o_c_id = 0;
        orders_buf[i].o_carrier_id = 0;
        orders_buf[i].o_ol_cnt = 0;
        orders_buf[i].o_all_local = 0;

        for (j=0;j<=14;j++)
        {
            orders_buf[i].o_ol[j].ol = 0;
            orders_buf[i].o_ol[j].ol_i_id = 0;
            orders_buf[i].o_ol[j].ol_supply_w_id = 0;
            orders_buf[i].o_ol[j].ol_quantity = 0;
            orders_buf[i].o_ol[j].ol_amount = 0;
            strcpy(orders_buf[i].o_ol[j].ol_dist_info,"
");
        }
    }
}

```

```

//=====
// Function : OrdersBufLoad
// Fills shared buffer for ORDERS, NEWORDER, and
ORDERLINE
//=====
void OrdersBufLoad(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_c_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 != SUCCEED)
            HandleErrorDBC(o_hdbc1);

        rc = bcp_bind(o_hdbc1, (BYTE *) &o_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc1);

        rc = bcp_bind(o_hdbc1, (BYTE *) &o_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc1);

        rc = bcp_bind(o_hdbc1, (BYTE *) &o_c_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 4);
        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc1);

        rc = bcp_bind(o_hdbc1, (BYTE *) &o_entry_d,
0, O_ENTRY_D_LEN, NULL, 0, SQLCHARACTER, 5);
        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc1);

        rc = bcp_bind(o_hdbc1, (BYTE *) &o_ol_cnt, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 7);
        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc1);

        rc = bcp_bind(o_hdbc1, (BYTE *) &o_all_local, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 8);
        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc1);

        for (i = 0; i < orders_per_district; i++)
        {
            o_id     =
orders_buf[i].o_id;
            o_d_id   =
orders_buf[i].o_d_id;
            o_w_id   =
orders_buf[i].o_w_id;
            o_c_id   =
orders_buf[i].o_c_id;
            o_carrier_id =
orders_buf[i].o_carrier_id;

```

```

        o_ol_cnt     =
orders_buf[i].o_ol_cnt;
        o_all_local  =
orders_buf[i].o_all_local;

        FormatDate(&o_entry_d);

        // send data to server
        rc = bcp_sendrow(o_hdbc1);
        if (rc != SUCCEED)

            HandleErrorDBC(o_hdbc1);

        orders_rows_loaded++;

        CheckForCommit(o_hdbc1, o_hstmt1,
orders_rows_loaded, "orders", &orders_time_start-
>time_start);
    }

    // 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("idxordc1");

        // 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 != SUCCEED)
    HandleErrorDBC(o_hdbc2);

rc = bcp_bind(o_hdbc2, (BYTE *) &o_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc2);

rc = bcp_bind(o_hdbc2, (BYTE *) &o_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc2);

for (i = first_new_order; i <
last_new_order; i++)
{
    o_id = orders_buf[i].o_id;
    o_d_id = orders_buf[i].o_d_id;
    o_w_id = orders_buf[i].o_w_id;

    rc = bcp_sendrow(o_hdbc2);
    if (rc != SUCCEED)

        HandleErrorDBC(o_hdbc2);

        new_order_rows_loaded++;

        CheckForCommit(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("idxmodcl");
    }

}

//=====
//
// 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 != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &o_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &o_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 4);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_i_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 5);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_supply_w_id,
0, SQL_VARLEN_DATA, NULL, 0, SQLINT2, 6);

```

```

    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *)
&ol_delivery_d, 0, OL_DELIVERY_D_LEN, NULL, 0,
SQLCHARACTER, 7);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_quantity, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT2, 8);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_amount, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 9);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) ol_dist_info, 0,
DIST_INFO_LEN, NULL, 0, 0, 10);
    if (rc != SUCCEED)
        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 != SUCCEED)

                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("idxodlcl1");
}

}

//=====
//
// Function : GetPermutation
//
//=====
void GetPermutation(int perm[], int n)
{
    int i, r, t;

    for (i=1;i<=n;i++)
        perm[i] = i;

    for (i=1;i<=n;i++)
    {
        r = RandomNumber(i,n);
        t = perm[i];
        perm[i] = perm[r];
        perm[r] = t;
    }
}

//=====
//=====

```

```

//
// Function : CheckForCommit
//
//=====
void CheckForCommit(HDBC hdbc,
                    HSTMT hstmt,          int
                    rows_loaded,         long
                    char *table_name,
                    *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 != SUCCEED)
    HandleErrorDBC(i_hdbc1);

rc = SQLDriverConnect ( i_hdbc1,

```

```

NULL,

(SQLCHAR*)&szDriverString[0] ,
SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0],
sizeof(szDriverStringOut),
&cbDriverStringOut,
SQL_DRIVER_NOPROMPT );
if (rc != 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 )
    {
        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 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_INTEGER ) != 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 =
%s\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
%s\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 i,
    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;
    // interate 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");
                    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;
                }

```

```

                }
            }
        }
        // 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),
@dtax 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

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),
@o_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),
@c_data char(500),
@data char(500),
@datetime datetime,
@w_ytd numeric(12,2),
@d_ytd numeric(12,2),
@cmt 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    =
'dzKoCObBqbc3yu',
    @c_city        =
'zAKZXdC037FQxq',
    @c_state       = 'QA',
    @c_zip         = '700311111',
    @c_phone       =
'2967264064528555',
    @c_credit      = 'GC',
    @c_credit_lim  = 50000.00,
    @c_discount    = 0.3069,
    @c_since       = getdate(),
    @datetime      = getdate()

-- return data to client
select @c_id,
    @c_last,
    @datetime,
    @w_street_1,
    @w_street_2,
    @w_city,
    @w_state,
    @w_zip,
    @d_street_1,
    @d_street_2,
    @d_city,
    @d_state,
    @d_zip,
    @c_first,
    @c_middle,
    @c_street_1,
    @c_street_2,
    @c_city,
    @c_state,
    @c_zip,
    @c_phone,
    @c_since,
    @c_credit,
    @c_credit_lim,
    @c_discount,
    @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

RunSQLCfg.sql

```

/* TPC-C Benchmark Kit
*/
/*
*/
/*
*/
/* 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 -g100
```

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
-g100   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:

```
sqlservr.exe           C:\SQL
Server\MSSQL\BINN
ERRORLOG               C:\SQL Server\MSSQL\LOG
```

Boot.ini Parameters

```
[boot loader]
timeout=10
default=multi(0)disk(0)rdisk(0)partition(2)\WINDOWS
[operating systems]
multi(0)disk(0)rdisk(0)partition(2)\WINDOWS="Windows
Server 2003, Enterprise PAE" /fastdetect /PAE
multi(0)disk(0)rdisk(0)partition(2)\WINDOWS="Windows
Server 2003, Enterprise (default)" /fastdetect
```

Microsoft SQL Server 2000 Configuration Parameters

```
1> 2> name
      minimum      maximum      config_value
run_value
-----
-----
-----
-----
-----
affinity mask
-2147483648  2147483647      3
3
allow updates
0 0 1 0
awe enabled
0 0 1 1
1
c2 audit mode
0 0 1 0
0
cost threshold for parallelism
0 32767 5
5
Cross DB Ownership Chaining
0 1 0
0
cursor threshold
-1 2147483647 -1
-1
default full-text language
0 2147483647 1033
1033
default language
0 9999 0
0
fill factor (%)
0 100 0
0
index create memory (KB)
704 2147483647 704
704
lightweight pooling
0 1 1
1
locks
5000 2147483647 0
0
max degree of parallelism
0 32 1
1
max server memory (MB)
4 2147483647 2147483647
2147483647
max text repl size (B)
```

```
0 2147483647 65536
65536
max worker threads
32 32767 700
700
media retention
0 365 0
0
min memory per query (KB)
512 2147483647 512
512
min server memory (MB)
0 2147483647 0
0
nested triggers
0 1 1
1
network packet size (B)
512 65536 4096
4096
open objects
0 2147483647 0
0
priority boost
0 1 1
1
query governor cost limit
0 2147483647 0
0
query wait (s)
-1 2147483647 -1
-1
recovery interval (min)
0 32767 80
80
remote access
0 1 1
1
remote login timeout (s)
0 2147483647 20
20
remote proc trans
0 1 0
0
remote query timeout (s)
0 2147483647 600
600
scan for startup procs
0 1 0
0
set working set size
0 1 0
0
show advanced options
0 1 1
1
two digit year cutoff
1753 9999 2049
2049
user connections
0 32767 0
0
user options
```

0 0 32767 0
 1> 2> 3>

Benchcraft Profile

Profile: ace2_2300_dl140
 File Path: C:\Benchcraft\ace2_2300_dl140.pro
 Version: 3

Number of Engines: 2

Name: DRIVER1
 Description:
 Directory: c:\blog\cr250a.log
 Machine: N2
 Parameter Set: 2.2
 Index: 600000000
 Seed: 18546
 Configured Users: 11500
 Pipe Name: DRIVER77505421
 Connect Rate: 10
 Start Rate: 0
 Max. Concurrency: 0
 Concurrency Rate: 0
 CLIENT_NURAND: 233
 CPU: 0

Name: DRIVER2
 Description:
 Directory: c:\blog\cr250b.log
 Machine: N2
 Parameter Set: 2.2
 Index: 700000000
 Seed: 18546
 Configured Users: 11500
 Pipe Name: DRIVER2517598468
 Connect Rate: 10
 Start Rate: 0
 Max. Concurrency: 0
 Concurrency Rate: 0
 CLIENT_NURAND: 233
 CPU: 1

Number of User groups: 2

Driver Engine: DRIVER1
 IIS Server: cr250
 SQL Server: ace2
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 1 - 1150
 w_id Min Warehouse: 1
 w_id Max Warehouse: 2300
 Scale: Normal
 User Count: 11500
 District id: 1
 Scale Down: No

Driver Engine: DRIVER2
 IIS Server: cr250
 SQL Server: ace2
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 1151 - 2300
 w_id Min Warehouse: 1
 w_id Max Warehouse: 2300
 Scale: Normal
 User Count: 11500
 District id: 1
 Scale Down: No

Number of Parameter Sets: 31

~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

0.00	0.00		Delivery	5.00	1.00
			0.00	5.00	0.00
0.00	0.00		Stock Level	20.00	1.00
			0.00	20.00	0.00
0.00	0.00		Order Status	5.00	1.00
			0.00	5.00	0.00

95%

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
13.00	18.01		0.10	5.00	0.10
			Payment	43.10	
13.00	3.01		0.10	5.00	0.10
			Delivery	4.05	
6.00	2.01		0.10	5.00	0.10
			Stock Level	4.05	
6.00	2.01		0.10	20.00	0.10
			Order Status	4.05	
11.00	2.01		0.10	5.00	0.10

90%

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
16.00	18.01		0.10	5.00	0.10
			Payment	43.10	
16.00	3.01		0.10	5.00	0.10
			Delivery	4.05	
9.00	2.01		0.10	5.00	0.10
			Stock Level	4.05	
9.00	2.01		0.10	20.00	0.10
			Order Status	4.05	
14.00	2.01		0.10	5.00	0.10

1.6
1.6 tt

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
19.28	18.01		0.10	5.00	0.10
			Payment	43.10	
19.28	3.01		0.10	5.00	0.10
			Delivery	4.05	
8.08	2.01		0.10	5.00	0.10
			Stock Level	4.05	
8.08	2.01		0.10	20.00	0.10
			Order Status	4.05	
16.08	2.01		0.10	5.00	0.10

2.0
2.0 tt

Key	RT	RT	Menu	Txn	Think
-----	----	----	------	-----	-------

Time	Delay	Fence	Delay	Weight	Time
			New Order	44.88	
24.10	24.10		0.10	5.00	0.10
			Payment	43.03	
24.10	24.10		0.10	5.00	0.10
			Delivery	4.03	
10.10	10.10		0.10	5.00	0.10
			Stock Level	4.03	
10.10	10.10		0.10	20.00	0.10
			Order Status	4.03	
20.10	20.10		0.10	5.00	0.10
			2.6		
			2.6 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
31.33	18.01		0.10	5.00	0.10
			Payment	43.10	
31.33	3.01		0.10	5.00	0.10
			Delivery	4.05	
13.13	2.01		0.10	5.00	0.10
			Stock Level	4.05	
13.13	2.01		0.10	20.00	0.10
			Order Status	4.05	
26.13	2.01		0.10	5.00	0.10
			3.0		
			3.0 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
36.15	18.01		0.10	5.00	0.10
			Payment	43.10	
36.15	3.01		0.10	5.00	0.10
			Delivery	4.05	
15.15	2.01		0.10	5.00	0.10
			Stock Level	4.05	
15.15	2.01		0.10	20.00	0.10
			Order Status	4.05	
30.15	2.01		0.10	5.00	0.10
			4.0		
			4.0 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
48.20	18.01		0.10	5.00	0.10
			Payment	43.10	
48.20	3.01		0.10	5.00	0.10
			Delivery	4.05	
20.20	2.01		0.10	5.00	0.10
			Stock Level	4.05	
20.20	2.01		0.10	20.00	0.10
			Order Status	4.05	
40.20	2.01		0.10	5.00	0.10

Key	RT	RT	Menu	Txn	Think
			3.8		
			3.8 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
45.80	18.01		0.10	5.00	0.10
			Payment	43.10	
45.80	3.01		0.10	5.00	0.10
			Delivery	4.05	
19.20	2.01		0.10	5.00	0.10
			Stock Level	4.05	
19.20	2.01		0.10	20.00	0.10
			Order Status	4.05	
38.20	2.01		0.10	5.00	0.10
			3.6		
			3.6 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
43.38	18.01		0.10	5.00	0.10
			Payment	43.10	
43.38	3.01		0.10	5.00	0.10
			Delivery	4.05	
18.18	2.01		0.10	5.00	0.10
			Stock Level	4.05	
18.18	2.01		0.10	20.00	0.10
			Order Status	4.05	
36.18	2.01		0.10	5.00	0.10
			3.4		
			3.4 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
40.97	18.01		0.10	5.00	0.10
			Payment	43.10	
40.97	3.01		0.10	5.00	0.10
			Delivery	4.05	
17.17	2.01		0.10	5.00	0.10
			Stock Level	4.05	
17.17	2.01		0.10	20.00	0.10
			Order Status	4.05	
34.17	2.01		0.10	5.00	0.10
			3.2		
			3.2 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
38.56	18.01		0.10	5.00	0.10
			Payment	43.10	
38.56	3.01		0.10	5.00	0.10

Key	RT	RT	Menu	Txn	Think
			Delivery	5.00	4.05
16.16	2.01		0.10	5.00	0.10
			Stock Level	20.00	4.05
16.16	2.01		0.10	20.00	0.10
			Order Status	5.00	4.05
32.16	2.01		0.10	5.00	0.10
			2.8		
			2.8 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.75	
33.74	18.01		0.10	5.00	0.10
			Payment	43.10	
33.74	3.01		0.10	5.00	0.10
			Delivery	4.05	
14.14	2.01		0.10	5.00	0.10
			Stock Level	20.00	4.05
14.14	2.01		0.10	20.00	0.10
			Order Status	5.00	4.05
28.14	2.01		0.10	5.00	0.10
			2.4		
			2.4 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.88	
28.92	18.01		0.10	5.00	0.10
			Payment	43.03	
28.92	3.01		0.10	5.00	0.10
			Delivery	4.03	
12.12	2.01		0.10	5.00	0.10
			Stock Level	20.00	4.03
12.12	2.01		0.10	20.00	0.10
			Order Status	5.00	4.03
24.12	2.01		0.10	5.00	0.10
			2.2		
			2.2 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
26.51	18.01		0.10	5.00	0.10
			Payment	43.05	
26.51	3.01		0.10	5.00	0.10
			Delivery	4.03	
11.11	2.01		0.10	5.00	0.10
			Stock Level	20.00	4.03
11.11	2.01		0.10	20.00	0.10
			Order Status	5.00	4.03
22.11	2.01		0.10	5.00	0.10
			1.1		
			1.1 tt		
Key	RT	RT	Menu	Txn	Think

Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
13.25	18.01		0.10	5.00	0.10
			Payment	43.05	
13.25	3.01		0.10	5.00	0.10
			Delivery	4.03	
5.55	2.01		0.10	5.00	0.10
			Stock Level	4.03	
5.55	2.01		0.10	20.00	0.10
			Order Status	4.03	
5.55	2.01		0.10	5.00	0.10
			1.2		
			1.2 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
14.46	18.01		0.10	5.00	0.10
			Payment	43.05	
14.46	3.01		0.10	5.00	0.10
			Delivery	4.03	
6.06	2.01		0.10	5.00	0.10
			Stock Level	4.03	
6.06	2.01		0.10	20.00	0.10
			Order Status	4.03	
12.06	2.01		0.10	5.00	0.10
			1.05		
			1.05tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
12.65	18.01		0.10	5.00	0.10
			Payment	43.05	
12.65	3.01		0.10	5.00	0.10
			Delivery	4.03	
5.30	2.01		0.10	5.00	0.10
			Stock Level	4.03	
5.30	2.01		0.10	20.00	0.10
			Order Status	4.03	
10.55	2.01		0.10	5.00	0.10
			1.01		
			1.01tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
12.17	18.01		0.10	5.00	0.10
			Payment	43.05	
12.17	3.01		0.10	5.00	0.10
			Delivery	4.03	
5.10	2.01		0.10	5.00	0.10
			Stock Level	4.03	
5.10	2.01		0.10	20.00	0.10
			Order Status	4.03	
10.15	2.01		0.10	5.00	0.10

Key	RT	RT	Menu	Txn	Think
			1.02		
			1.02tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
12.29	18.01		0.10	5.00	0.10
			Payment	43.05	
12.29	3.01		0.10	5.00	0.10
			Delivery	4.03	
5.15	2.01		0.10	5.00	0.10
			Stock Level	4.03	
5.15	2.01		0.10	20.00	0.10
			Order Status	4.03	
10.25	2.01		0.10	5.00	0.10
			1.08		
			1.08 tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
13.01	18.01		0.10	5.00	0.10
			Payment	43.05	
13.01	3.01		0.10	5.00	0.10
			Delivery	4.03	
5.45	2.01		0.10	5.00	0.10
			Stock Level	4.03	
5.45	2.01		0.10	20.00	0.10
			Order Status	4.03	
10.85	2.01		0.10	5.00	0.10
			1.06		
			1.06tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
12.77	18.01		0.10	5.00	0.10
			Payment	43.05	
12.77	3.01		0.10	5.00	0.10
			Delivery	4.03	
5.35	2.01		0.10	5.00	0.10
			Stock Level	4.03	
5.35	2.01		0.10	20.00	0.10
			Order Status	4.03	
10.65	2.01		0.10	5.00	0.10
			1.07		
			1.07tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
12.89	18.01		0.10	5.00	0.10
			Payment	43.05	
12.89	3.01		0.10	5.00	0.10

Key	RT	RT	Menu	Txn	Think
			Delivery	5.00	4.03
5.40	2.01		0.10	5.00	0.10
			Stock Level	20.00	4.03
5.40	2.01		0.10	20.00	0.10
			Order Status	5.00	4.03
10.75	2.01		0.10	5.00	0.10
			1.03		
			1.03tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
12.41	18.01		0.10	5.00	0.10
			Payment	43.05	
12.41	3.01		0.10	5.00	0.10
			Delivery	4.03	
5.20	2.01		0.10	5.00	0.10
			Stock Level	20.00	4.03
5.20	2.01		0.10	20.00	0.10
			Order Status	5.00	4.03
10.35	2.01		0.10	5.00	0.10
			1.04		
			1.04tt		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
12.53	18.01		0.10	5.00	0.10
			Payment	43.05	
12.53	3.01		0.10	5.00	0.10
			Delivery	4.03	
5.25	2.01		0.10	5.00	0.10
			Stock Level	20.00	4.03
5.25	2.01		0.10	20.00	0.10
			Order Status	5.00	4.03
10.45	2.01		0.10	5.00	0.10
			12.04		
Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
12.04	18.01		0.10	5.00	0.10
			Payment	43.05	
12.04	3.01		0.10	5.00	0.10
			Delivery	4.03	
5.04	2.01		0.10	5.00	0.10
			Stock Level	20.00	4.03
5.04	2.01		0.10	20.00	0.10
			Order Status	5.00	4.03
10.04	2.01		0.10	5.00	0.10
			12.03		
Key	RT	RT	Menu	Txn	Think

Time	Delay	Fence	Delay	Weight	Time
			New Order	44.86	
12.03	18.01	0.10		5.00	0.10
			Payment	43.05	
12.03	3.01	0.10		5.00	0.10
			Delivery	4.03	
5.03	2.01	0.10		5.00	0.10
			Stock Level	4.03	
5.03	2.01	0.10		20.00	0.10
			Order Status	4.03	
10.03	2.01	0.10		5.00	0.10

12.02

Key	RT	RT	Menu	Txn	Think
				Weight	Time
Time	Delay	Fence	Delay		
			New Order	44.86	
12.02	18.01	0.10		5.00	0.10
			Payment	43.05	
12.02	3.01	0.10		5.00	0.10
			Delivery	4.03	
5.02	2.01	0.10		5.00	0.10
			Stock Level	4.03	
5.02	2.01	0.10		20.00	0.10
			Order Status	4.03	
10.02	2.01	0.10		5.00	0.10

1.005
1.005 tt

Key	RT	RT	Menu	Txn	Think
				Weight	Time
Time	Delay	Fence	Delay		
			New Order	44.86	
12.11	18.01	0.10		5.00	0.10
			Payment	43.05	
12.11	3.01	0.10		5.00	0.10
			Delivery	4.03	
5.08	2.01	0.10		5.00	0.10
			Stock Level	4.03	
5.08	2.01	0.10		20.00	0.10
			Order Status	4.03	
10.55	2.01	0.10		5.00	0.10

Internet Information Server Registry Parameters

REGEDIT4

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Parameters]
"ListenBackLog"=dword:00000019
"DispatchEntries"=hex(7):4c,44,41,50,53,56,43,00,53,4d,54,50,53,56,43,00,00
"PoolThreadLimit"=dword:000007fe
"ThreadTimeout"=dword:00015180
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Performance]
"Library"="infcotrs.dll"
"Open"="OpenINFOPerformanceData"
"Close"="CloseINFOPerformanceData"
"Collect"="CollectINFOPerformanceData"
"Last Counter"=dword:00000842
"Last Help"=dword:00000843
"First Counter"=dword:00000802
"First Help"=dword:00000803
"Library Validation Code"=hex:00,5f,54,8e,62,f5,c3,01,10,25,00,00,00,00,0,0,0
"WbemAdapFileTime"=hex:00,db,3d,bd,c4,d4,c0,01
"WbemAdapFileSize"=dword:00002510
"WbemAdapStatus"=dword:00000000
```

World Wide Web Service Registry Parameters

REGEDIT4

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC]
"Type"=dword:00000020
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,3a,5c,57,49,4e,4e,54,5c,53,79,73,74,65,6d,33,32,5c,69,6e,\
```

```
65,74,73,72,76,5c,69,6e,65,74,69,6e,66,6f,2e,65,78,65,00
"DisplayName"="World Wide Web Publishing Service"
"DependOnService"=hex(7):49,49,53,41,44,4d,49,4e,00,0,0
"DependOnGroup"=hex(7):00
"ObjectName"="LocalSystem"
"Description"="Provides Web connectivity and administration through the Internet Information Services snap-in."
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\ASP]
"NOTE"="This is for backward compatibility only."
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\ASP\Parameters]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters]
```

```
"MajorVersion"=dword:00000005
"MinorVersion"=dword:00000000
"InstallPath"="C:\\WINNT\\System32\\inetsrv"
"CertMapList"="C:\\WINNT\\System32\\inetsrv\\iisicrmap.dll"
"AccessDeniedMessage"="Error: Access is Denied."
"Filter DLLs"=""
"LogFileDirectory"="C:\\WINNT\\System32\\LogFiles"
"AcceptExOutstanding"=dword:00000028
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch\AdvancedDataFactory]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch\RDSServer.DataFactory]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\Script Map]
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\Virtual Roots]
"/"="c:\\inetpub\\wwwroot,,207"
"/Scripts"="c:\\inetpub\\scripts,,1"
"/IISHelp"="c:\\winnt\\help\\iishelp,,1"
"/IISAdmin"="C:\\WINNT\\System32\\inetsrv\\iisadmin,,1"
"/IISSamples"="c:\\inetpub\\iisamples,,1"
"/MSADC"="c:\\program files\\common files\\system\\msadc,,1"
"/_vti_bin"="C:\\Program Files\\Common Files\\Microsoft Shared\\Web Server Extensions\\40\\isapi,,1"
"/Printers"="C:\\WINNT\\web\\printers,,201"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Performance]
"Library"="w3ctrs.dll"
"Open"="OpenW3PerformanceData"
"Close"="CloseW3PerformanceData"
"Collect"="CollectW3PerformanceData"
"Last Counter"=dword:000008e6
"Last Help"=dword:000008e7
"First Counter"=dword:00000844
"First Help"=dword:00000845
"Library Validation Code"=hex:52,3f,58,8f,62,f5,c3,01,10,3d,00,00,00,00,0,0,0
"WbemAdapFileTime"=hex:00,db,3d,bd,c4,d4,c0,01
"WbemAdapFileSize"=dword:00001d10
"WbemAdapStatus"=dword:00000000
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Security]
"Security"=hex:01,00,14,80,a0,00,00,00,ac,00,00,00,14,00,00,00,30,00,00,00,02,\
```

```
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
```

```

00,00,02,00,70,00,04,00,00,00,00,00,18,00,fd,01,02,00
,01,01,00,00,00,00,00,\
05,12,00,00,00,74,00,6f,00,00,00,1c,00,ff,01,0f,00,01
,02,00,00,00,00,05,\
20,00,00,00,20,02,00,00,72,00,73,00,00,00,18,00,8d,01
,02,00,01,01,00,00,00,\
00,00,05,0b,00,00,00,20,02,00,00,00,00,1c,00,fd,01,02
,00,01,02,00,00,00,00,\
00,05,20,00,00,00,23,02,00,00,72,00,73,00,01,01,00,00
,00,00,00,05,12,00,00,\
00,01,01,00,00,00,00,00,05,12,00,00,00

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\W3SVC\Enum]
"0"="Root\LEGACY_W3SVC\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

```

TPCC Application Registry Parameters

REGEDIT4

```

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\TPCC]
"Path"="C:\Inetpub\wwwroot\"
"NumberOfDeliveryThreads"=dword:0000003c
"MaxConnections"=dword:00007530
"MaxPendingDeliveries"=dword:000007d0
"DB_Protocol"="ODBC"
"TxnMonitor"="COM"
"DbServer"="ace2"
"DbName"="tpcc"
"DbUser"="sa"
"DbPassword"=""
"COM_SinglePool"="YES"

```

Server Bus Performance Driver Registry Parameters

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqcissb
Class Name: <NO CLASS>
Last Write Time: 2/23/2004 - 5:06 PM
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\hpqcissb.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\
hpqcissb\Parameters
Class Name: <NO CLASS>
Last Write Time: 2/24/2004 - 10:24 AM
Value 0
Name: CompletionMode
Type: REG_DWORD
Data: 0x2

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqcissb\Parameters\Controller0
Class Name: <NO CLASS>
Last Write Time: 1/30/2004 - 10:09 AM
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: 1/29/2004 - 2:38 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 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 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 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\
hpqcissb\Enum
Class Name: <NO CLASS>
Last Write Time: 2/23/2004 - 5:06 PM
Value 0
Name: 0
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_0046&SUBSYS_409A0E11&REV_01\3&13c0b0
c5&0&08

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x4

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x4

```

```

Value 3
Name: 1
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\3&13c0b0
c5&0&10

```

```

Value 4
Name: 2
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\3&107002
0&0&08

```



```

Value 5
Name: 3
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\3&107002
0&0&10

```

Server Disk Device Performance Driver Registry Parameters

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqcissd
Class Name: <NO CLASS>
Last Write Time: 2/23/2004 - 5:06 PM
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: 1/29/2004 - 2:41 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 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 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 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\
hpqcissd\Enum
Class Name: <NO CLASS>
Last Write Time: 2/23/2004 - 5:06 PM

```

```

Value 0
Name: 0
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_HP&PROD_LOGICAL_VOLUME\4&242fc3d1&0&
0000004000000000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0xa

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0xa

```

```

Value 3
Name: 1
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\4&e6aac0f
&0&0000004000000000

```

```

Value 4

```

```

Name: 2
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\4&e6aac0f
&0&0100004000000000

```

```

Value 5
Name: 3
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\4&e6aac0f
&0&0200004000000000

```

```

Value 6
Name: 4
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\4&33332ab
6&0&0000004000000000

```

```

Value 7
Name: 5
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\4&33332ab
6&0&0100004000000000

```

```

Value 8
Name: 6
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\4&33332ab
6&0&0200004000000000

```

```

Value 9
Name: 7
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\4&16a1636
0&0&0000004000000000

```

```

Value 10
Name: 8
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\4&16a1636
0&0&0100004000000000

```

```

Value 11
Name: 9
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\4&16a1636
0&0&0200004000000000

```

System Summary

System Information report written at: 02/24/04
10:23:51
System Name: ACE2
[System Summary]

Item	Value
OS Name	Microsoft(R) Windows(R) Server 2003, Enterprise Edition
Version	5.2.3790 Build 3790
OS Manufacturer	Microsoft Corporation
System Name	ACE2
System Manufacturer	Compaq
System Model	ProLiant ML350 G3
System Type	X86-based PC
Processor x86 Family	15 Model 2 Stepping 5
GenuineIntel	~2790 Mhz
Processor x86 Family	15 Model 2 Stepping 5
GenuineIntel	~2790 Mhz
BIOS Version/Date	Compaq D14, 12/18/2003
SMBIOS Version	2.3
Windows Directory	C:\WINDOWS
System Directory	C:\WINDOWS\system32
Boot Device	\Device\HarddiskVolume12
Locale	United States
Hardware Abstraction Layer	Version = "5.2.3790.0 (srv03_rtm.030324-2048)"
User Name	ACE2\Administrator
Time Zone	Central Standard Time
Total Physical Memory	8,192.00 MB
Available Physical Memory	7.47 GB
Total Virtual Memory	17.31 GB
Available Virtual Memory	16.93 GB
Page File Space	9.56 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	
Memory Address 0xF7C00000-0xF7FFFFFF	PCI bus	
Memory Address 0xF7C00000-0xF7FFFFFF	Smart Array 5300 Controller (Non-Miniport)	
IRQ 31	Compaq 64-bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter	
IRQ 31	Compaq 64-bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter	
I/O Port 0x000003C0-0x000003DF	PCI bus	
I/O Port 0x000003C0-0x000003DF	RAGE XL PCI Family (Microsoft Corporation)	

IRQ 5	Compaq Advanced System Management Controller	
IRQ 5	ServerWorks (RCC) PCI to USB Open Host Controller	
Memory Address 0xF7A00000-0xF7BFFFFF	PCI bus	
Memory Address 0xF7A00000-0xF7BFFFFF	Smart Array 5300 Controller (Non-Miniport)	
I/O Port 0x00003000-0x000034FF	PCI bus	
I/O Port 0x00003000-0x000034FF	Smart Array 641 Controller (Non-Miniport)	
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)	
I/O Port 0x00004000-0x000044FF	PCI bus	
I/O Port 0x00004000-0x000044FF	Smart Array 5300 Controller (Non-Miniport)	

[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	Compaq 64-bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter	OK
0x00002800-0x000028FF	Compaq 64-bit/66MHz Dual Channel Wide Ultra3 SCSI Adapter	OK
0x00002C00-0x00002CFF	RAGE XL PCI Family (Microsoft Corporation)	OK
0x00001800-0x000018FF	Compaq Advanced System Management Controller	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
0x00000904-0x00000904	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

0x00000378-0x0000037F Printer Port (LPT1) 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
0x00003000-0x000034FF PCI bus OK
0x00003000-0x000034FF Smart Array 641
Controller (Non-Miniport) OK
0x00003400-0x000034FF Smart Array 5300
Controller (Non-Miniport) OK
0x00004000-0x000044FF PCI bus OK
0x00004000-0x000044FF Smart Array 5300
Controller (Non-Miniport) OK
0x00004400-0x000044FF Smart Array 5300
Controller (Non-Miniport) OK

[IRQs]

Resource Device Status
IRQ 9 Microsoft ACPI-Compliant System OK

IRQ 31 Compaq 64-bit/66MHz Dual Channel Wide
Ultra3 SCSI Adapter OK
IRQ 31 Compaq 64-bit/66MHz Dual Channel Wide
Ultra3 SCSI Adapter OK
IRQ 28 BCM5703 Gigabit Ethernet OK
IRQ 5 Compaq Advanced System Management
Controller OK
IRQ 5 ServerWorks (RCC) PCI to USB Open Host
Controller 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 26 Smart Array 641 Controller (Non-Miniport)
OK
IRQ 24 Smart Array 5300 Controller (Non-Miniport)
OK
IRQ 22 Smart Array 5300 Controller (Non-Miniport)
OK
IRQ 20 Smart Array 5300 Controller (Non-Miniport)
OK

[Memory]

Resource Device Status
0xA0000-0xBFFFF PCI bus OK
0xA0000-0xBFFFF RAGE XL PCI Family (Microsoft
Corporation) OK
0xF5F00000-0xF79FFFF PCI bus OK
0xF79F0000-0xF79F0FFF Compaq 64-bit/66MHz
Dual Channel Wide Ultra3 SCSI Adapter OK
0xF79E0000-0xF79E0FFF Compaq 64-bit/66MHz
Dual Channel Wide Ultra3 SCSI Adapter OK
0xF6000000-0xF6FFFFF RAGE XL PCI Family
(Microsoft Corporation) OK
0xF5FF0000-0xF5FF0FFF RAGE XL PCI Family
(Microsoft Corporation) OK
0xF5FE0000-0xF5FEFFFF BCM5703 Gigabit
Ethernet OK
0xF5FD0000-0xF5FD0FFF Compaq Advanced System
Management Controller OK
0xF5FC0000-0xF5FC0FFF ServerWorks (RCC) PCI
to USB Open Host Controller OK
0xF7A00000-0xF7BFFFFF PCI bus OK
0xF7A00000-0xF7BFFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7BF0000-0xF7BF1FFF Smart Array 641
Controller (Non-Miniport) OK
0xF7B80000-0xF7B8FFFF Smart Array 641
Controller (Non-Miniport) OK
0xF7B40000-0xF7B7FFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7C00000-0xF7FFFFF PCI bus 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	Version	Size
c:\windows\system32\l3codeca.acm	Fraunhofer	
Institut Integrierte Schaltungen IIS	Fraunhofer	
IIS MPEG Layer-3 Codec	OK	
C:\WINDOWS\system32\L3CODECA.ACM	1,	
9, 0, 0305	284.00 KB (290,816 bytes)	
3/25/2003 12:00 AM		
c:\windows\system32\sl_anet.acm	Sipro Lab	
Telecom Inc.	Sipro Lab Telecom	
C:\WINDOWS\system32\SL_ANET.ACM	Audio Codec OK	
3.02	84.00 KB (86,016 bytes)	
3/25/2003 12:00 AM		
c:\windows\system32\msaud32.acm	Microsoft	
Corporation	Windows Media Audio Codec	OK
C:\WINDOWS\system32\MSAUD32.ACM	8.00.00.4487	288.00 KB (294,912
bytes)	3/25/2003 12:00 AM	
c:\windows\system32\msg711.acm	Microsoft	
Corporation	OK	
C:\WINDOWS\system32\MSG711.ACM	5.2.3790.0 (srv03_rtm.030324-2048)	
10.00 KB (10,240 bytes)	3/25/2003	
12:00 AM		
c:\windows\system32\msgsm32.acm	Microsoft	
Corporation	OK	
C:\WINDOWS\system32\MSGSM32.ACM	5.2.3790.0 (srv03_rtm.030324-2048)	
20.50 KB (20,992 bytes)	3/25/2003	
12:00 AM		
c:\windows\system32\msg723.acm	Microsoft	
Corporation	OK	
C:\WINDOWS\system32\MSG723.ACM	4.4.4000 116.00 KB (118,784 bytes)	
1/28/2004 4:20 PM		
c:\windows\system32\msadp32.acm	Microsoft	
Corporation	OK	
C:\WINDOWS\system32\MSADP32.ACM	5.2.3790.0 (srv03_rtm.030324-2048)	
14.50 KB (14,848 bytes)	3/25/2003	
12:00 AM		
c:\windows\system32\tssoft32.acm	DSP GROUP,	
INC.	OK	
C:\WINDOWS\system32\TSSOFT32.ACM	1.01	9.50 KB (9,728 bytes)
3/25/2003 12:00 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)	3/25/2003	
12:00 AM		
[Video Codecs]		
CODEC	Manufacturer	Description
Status	File	Version
Creation Date	Version	Size

```

c:\windows\system32\tshyuv.dll      Microsoft Corporation
                                     OK
                                     C:\WINDOWS\system32\TSBYUV.DLL
                                     5.2.3790.0 (srv03_rtm.030324-2048)
                                     8.00 KB (8,192 bytes)      3/24/2003
7:50 PM
c:\windows\system32\msh261.drv      Microsoft Corporation
                                     OK
                                     C:\WINDOWS\system32\MSH261.DRV
                                     4.4.4000 180.00 KB (184,320 bytes)
                                     1/28/2004 4:20 PM
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\msyuv.dll       Microsoft Corporation
                                     OK
                                     C:\WINDOWS\system32\MSYUV.DLL 5.2.3790.0
(srv03_rtm.030324-2048) 16.50 KB (16,896 bytes)
3/24/2003 7:49 PM
c:\windows\system32\msrle32.dll     Microsoft Corporation
                                     OK
                                     C:\WINDOWS\system32\MSRLE32.DLL
                                     5.2.3790.0 (srv03_rtm.030324-2048)
                                     10.50 KB (10,752 bytes)     3/25/2003
12:00 AM
c:\windows\system32\msvidc32.dll    Microsoft Corporation
                                     OK
                                     C:\WINDOWS\system32\MSVIDC32.DLL
                                     5.2.3790.0 (srv03_rtm.030324-2048)
                                     26.50 KB (27,136 bytes)    3/25/2003
12:00 AM
c:\windows\system32\msh263.drv      Microsoft Corporation
                                     OK
                                     C:\WINDOWS\system32\MSH263.DRV
                                     4.4.4000 284.00 KB (290,816 bytes)
                                     3/24/2003 7:46 PM

```

[CD-ROM]

```

Item      Value
Drive     D:
Description      CD-ROM Drive
Media Loaded     No
Media Type       CD-ROM
Name             COMPAQ CD-ROM LTN486S
Manufacturer     (Standard CD-ROM drives)
Status          OK
Transfer Rate    Not Available
SCSI Target ID  0
PNP Device ID   IDE\CDROMCOMPAQ_CD-
ROM_LTN486S     \YQSK\5\FB0C83D&0&0.
0.0
Driver         c:\windows\system32\drivers\cdrom.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 49.50 KB (50,688
bytes), 3/25/2003 12:00 AM)

```

[Sound Device]

```

Item      Value

```

[Display]

```

Item      Value
Name      RAGE XL PCI Family (Microsoft Corporation)

PNP Device ID
PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_2
7\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        800 x 600 x 85 hertz
Bits/Pixel        32
Memory Address    0xF6000000-0xF6FFFFFF
I/O Port         0x00002C00-0x00002CFE
Memory Address    0xF5FF0000-0xF5FF0FFF
I/O Port         0x000003B0-0x000003BB
I/O Port         0x000003C0-0x000003DF
Memory Address    0xA0000-0xBFFFFF
Driver            c:\windows\system32\drivers\ati2mpad.sys
(5.10.3663.6013, 335.38 KB (343,424 bytes), 1/28/2004
10:14 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       0x00000064-0x0000006B
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 12:00 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 12:00 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_16A6&SUBSYS_00BB0E11&REV_0
2\3&267A616A&0&20
Last Reset      2/23/2004 5:06 PM
Index          1
Service Name     b57w2k
IP Address       130.168.212.160
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:CF:29:18
Memory Address   0xF5FE0000-0xF5FEFFFF
IRQ Channel      IRQ 28
Driver           c:\windows\system32\drivers\b57xp32.sys
(2.91.0.0 built by: WinDDK, 137.00 KB (140,288
bytes), 1/28/2004 10:14 AM)

Name      [00000002] RAS Async Adapter
Adapter Type     Not Available
Product Type     RAS Async Adapter
Installed Yes
PNP Device ID   Not Available
Last Reset      2/23/2004 5:06 PM
Index          2
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      [00000003] WAN Miniport (L2TP)
Adapter Type     Not Available
Product Type     WAN Miniport (L2TP)
Installed Yes
PNP Device ID   ROOT\MS_L2TPMINIPOINT\0000

```

Last Reset 2/23/2004 5:06 PM
 Index 3
 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 12:00 AM)

Name [00000004] WAN Miniport (PPTP)
 Adapter Type Wide Area Network (WAN)
 Product Type WAN Miniport (PPTP)
 Installed Yes
 PNP Device ID ROOT\MS_PPTP\MINI\PORT\0000
 Last Reset 2/23/2004 5:06 PM
 Index 4
 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 12:00 AM)

Name [00000005] WAN Miniport (PPPOE)
 Adapter Type Wide Area Network (WAN)
 Product Type WAN Miniport (PPPOE)
 Installed Yes
 PNP Device ID ROOT\MS_PPP\OEM\MINI\PORT\0000
 Last Reset 2/23/2004 5:06 PM
 Index 5
 Service Name Rasppoe
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled No
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 33:50:6F:45:30:30
 Driver c:\windows\system32\drivers\rasppoe.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 38.00 KB (38,912 bytes), 3/25/2003 12:00 AM)

Name [00000006] Direct Parallel
 Adapter Type Not Available
 Product Type Direct Parallel
 Installed Yes
 PNP Device ID ROOT\MS_PT\IMIN\PORT\0000
 Last Reset 2/23/2004 5:06 PM
 Index 6
 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 12:00 AM)

Name [00000007] WAN Miniport (IP)
 Adapter Type Not Available
 Product Type WAN Miniport (IP)
 Installed Yes
 PNP Device ID ROOT\MS_NDISWAN\IP\0000
 Last Reset 2/23/2004 5:06 PM
 Index 7
 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 12:00 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

Item	Value
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

Item	Value
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

Item	Value
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

Item	Value
Name	MSAFD NetBIOS [Device\NetBT_Tcpip_{34E04B05-C954-4295-9251-251C8BEC743}] 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_{34E04B05-C954-4295-9251-251C8BBCD743}] 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_{2BCBD6CD-2664-4D10-A071-B2E902F9F4FD}] 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_{2BCBD6CD-2664-4D10-A071-B2E902F9F4FD}] 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_{1EC38CDE-2111-44AF-9FD6-C0EB79F8FE0F}] 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_{1EC38CDE-2111-44AF-9FD6-C0EB79F8FE0F}] 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\wsoc32.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 12:00 AM)

[Parallel]

Item Value
 Name LPT1
 PNP Device ID ACPI\PNP0400\5&13237358&0
 I/O Port 0x00000378-0x0000037F
 Driver c:\windows\system32\drivers\parport.sys
 (5.2.3790.0 (srv03_rtm.030324-2048), 76.50 KB (78,336 bytes), 3/24/2003 5:04 PM)

[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 16.94 GB (18,186,092,544 bytes)
 Free Space 13.32 GB (14,301,048,832 bytes)

Volume Name
 Volume Serial Number C4CAC771

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 X:
 Description Local Fixed Disk
 Compressed No
 File System NTFS
 Size 84.56 GB (90,790,604,800 bytes)
 Free Space 20.78 GB (22,314,897,408 bytes)

Volume Name Backup1
 Volume Serial Number 948C9494

Drive Y:
 Description Local Fixed Disk
 Compressed No
 File System NTFS
 Size 84.56 GB (90,790,604,800 bytes)
 Free Space 21.03 GB (22,583,562,240 bytes)

Volume Name Backup2
 Volume Serial Number 1098C574

Drive Z:
 Description Local Fixed Disk
 Compressed No
 File System NTFS
 Size 84.56 GB (90,790,604,800 bytes)
 Free Space 21.03 GB (22,583,627,776 bytes)

Volume Name Backup3
 Volume Serial Number 08A314B1

[Disks]

Item Value
 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 45.92 GB (49,310,553,600 bytes)

Total Cylinders 5,995
 Total Sectors 96,309,675
 Total Tracks 1,528,725
 Tracks/Cylinder 255
 Partition Disk #7, Partition #0
 Partition Size 45.92 GB (49,310,334,976 bytes)

Partition Starting Offset 65,536 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 22.36 GB (24,009,592,320 bytes)
 Total Cylinders 2,919
 Total Sectors 46,893,735
 Total Tracks 744,345
 Tracks/Cylinder 255
 Partition Disk #8, Partition #0
 Partition Size 22.36 GB (24,009,244,672 bytes)

Partition Starting Offset 65,536 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 84.56 GB (90,790,640,640 bytes)
 Total Cylinders 11,038
 Total Sectors 177,325,470
 Total Tracks 2,814,690
 Tracks/Cylinder 255
 Partition Disk #9, Partition #0
 Partition Size 84.56 GB (90,790,608,384 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 45.92 GB (49,310,553,600 bytes)
 Total Cylinders 5,995
 Total Sectors 96,309,675
 Total Tracks 1,528,725
 Tracks/Cylinder 255
 Partition Disk #4, Partition #0
 Partition Size 45.92 GB (49,310,334,976 bytes)

Partition Starting Offset 65,536 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 22.36 GB (24,009,592,320 bytes)
 Total Cylinders 2,919
 Total Sectors 46,893,735
 Total Tracks 744,345
 Tracks/Cylinder 255
 Partition Disk #5, Partition #0
 Partition Size 22.36 GB (24,009,244,672 bytes)

Partition Starting Offset 65,536 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 84.56 GB (90,790,640,640 bytes)
 Total Cylinders 11,038
 Total Sectors 177,325,470
 Total Tracks 2,814,690
 Tracks/Cylinder 255
 Partition Disk #6, Partition #0
 Partition Size 84.56 GB (90,790,608,384 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE1
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available

SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 45.92 GB (49,310,553,600 bytes)
 Total Cylinders 5,995
 Total Sectors 96,309,675
 Total Tracks 1,528,725
 Tracks/Cylinder 255

Description \\.\PHYSICALDRIVE2
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 22.36 GB (24,009,592,320 bytes)
 Total Cylinders 2,919
 Total Sectors 46,893,735
 Total Tracks 744,345
 Tracks/Cylinder 255

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 84.56 GB (90,790,640,640 bytes)
 Total Cylinders 11,038
 Total Sectors 177,325,470
 Total Tracks 2,814,690
 Tracks/Cylinder 255
 Partition Disk #3, Partition #0
 Partition Size 84.56 GB (90,790,608,384 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 135.66 GB (145,661,483,520 bytes)
 Total Cylinders 17,709
 Total Sectors 284,495,085
 Total Tracks 4,515,795
 Tracks/Cylinder 255
 Partition Disk #0, Partition #0
 Partition Size 135.66 GB (145,660,837,888 bytes)

Partition Starting Offset 65,536 bytes

Description Disk drive
 Manufacturer (Standard disk drives)
 Model COMPAQ BF01885A34 SCSI Disk Device
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 2
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 2
 SCSI Target ID 0
 Sectors/Track 63
 Size 16.95 GB (18,202,544,640 bytes)
 Total Cylinders 2,213
 Total Sectors 35,551,845
 Total Tracks 564,315
 Tracks/Cylinder 255
 Partition Disk #10, Partition #0
 Partition Size 7.81 MB (8,193,024 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #10, Partition #1
 Partition Size 16.94 GB (18,186,094,080 bytes)

Partition Starting Offset 8,225,280 bytes

[SCSI]

Item Value
 Name Compaq 64-bit/66MHz Dual Channel Wide
 Ultra3 SCSI Adapter
 Manufacturer Adaptec
 Status OK
 PNP Device ID
 PCI\VEN_9005&DEV_00C0&SUBSYS_F6200E11&REV_0
 1\3&267A616A&0&10
 I/O Port 0x00002400-0x000024FF
 Memory Address 0xF79F0000-0xF79F0FFF
 IRQ Channel IRQ 31
 Driver c:\windows\system32\drivers\adpu160m.sys
 (RTC_XP07 (lab01_n(storbuild).010917-1031), 99.63 KB
 (102,016 bytes), 3/25/2003 12:00 AM)

Name Compaq 64-bit/66MHz Dual Channel Wide
 Ultra3 SCSI Adapter
 Manufacturer Adaptec
 Status OK
 PNP Device ID
 PCI\VEN_9005&DEV_00C0&SUBSYS_F6200E11&REV_0
 1\3&267A616A&0&11
 I/O Port 0x00002800-0x000028FF
 Memory Address 0xF79E0000-0xF79E0FFF
 IRQ Channel IRQ 31


```

Driver c:\windows\system32\drivers\adp160m.sys
(RTC_XP07 (lab01_n(storbuild).010917-1031), 99.63 KB
(102,016 bytes), 3/25/2003 12:00 AM)

Name Smart Array 641 Controller (Non-Miniport)

Manufacturer Hewlett-Packard
Status OK
PNP Device ID PCI\VEN_0E11&DEV_0046&SUBSYS_409A0E11&REV_0
1\3&13C0B0C5&0&08
Memory Address 0xF7BF0000-0xF7BF1FFF
I/O Port 0x00003000-0x000034FF
Memory Address 0xF7B80000-0xF7BFFFFF
IRQ Channel IRQ 26
Driver c:\windows\system32\drivers\hpcqissb.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes),
1/28/2004 4:39 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\3&13C0B0C5&0&10
Memory Address 0xF7B40000-0xF7B7FFFF
Memory Address 0xF7A00000-0xF7BFFFFF
I/O Port 0x00003400-0x000034FF
IRQ Channel IRQ 24
Driver c:\windows\system32\drivers\hpcqissb.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes),
1/28/2004 4:39 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\3&1070020&0&08
Memory Address 0xF7FC0000-0xF7FFFFFF
Memory Address 0xF7E00000-0xF7EFFFFF
I/O Port 0x00004000-0x000044FF
IRQ Channel IRQ 22
Driver c:\windows\system32\drivers\hpcqissb.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes),
1/28/2004 4:39 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\3&1070020&0&10
Memory Address 0xF7DC0000-0xF7DFFFFFF
Memory Address 0xF7C00000-0xF7FFFFFF
I/O Port 0x00004400-0x000044FF
IRQ Channel IRQ 20
Driver c:\windows\system32\drivers\hpcqissb.sys
(5.6.2.32 built by: WinDDK, 38.00 KB (38,912 bytes),
1/28/2004 4:39 PM)

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```

[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 12:00 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 12:00 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 12:00 AM)

[Printing]

Name Driver Port Name Server Name

[Problem Devices]

Device PNP Device ID Error Code

[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	Status	Error Control	Accept Stop	State	Accept Pause
abiosdsk	Abiosdsk	Not Available	Kernel Driver	No	Disabled	Stopped	OK			
acpi	Microsoft ACPI Driver	c:\windows\system32\drivers\acpi.sys	Kernel Driver	Running	OK	Normal	No	Yes	Boot	
acpiec	ACPIEC	c:\windows\system32\drivers\acpiec.sys	Kernel Driver	Stopped	OK	Normal	No	Disabled	No	No
adp160m	adp160m	c:\windows\system32\drivers\adp160m.sys	Kernel Driver	Running	OK	Normal	No	Yes	Boot	
adpu320	adpu320	Not Available	Kernel Driver	No	Disabled	Stopped	OK			
afcnt	afcnt	Not Available	Kernel Driver	No	Disabled	Stopped	OK			
afd	AFD Networking Support Environment	c:\windows\system32\drivers\afd.sys	Kernel Driver	Running	OK	Normal	No	Yes	Auto	
ahal54x	Ahal54x	Not Available	Kernel Driver	No	Disabled	Stopped	OK			
aic78u2	aic78u2	Not Available	Kernel Driver	No	Disabled	Stopped	OK			
aic78xx	aic78xx	Not Available	Kernel Driver	No	Disabled	Stopped	OK			
aliide	AliIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK			
asyncmac	RAS Asynchronous Media Driver	c:\windows\system32\drivers\asyncmac.sys	Kernel Driver	Stopped	OK	Normal	No	No	Manual	No
atapi	Standard IDE/ESDI Hard Disk Controller	c:\windows\system32\drivers\atapi.sys	Kernel Driver	Running	OK	Normal	No	Yes	Boot	
atdisk	Atdisk	Not Available	Kernel Driver	No	Disabled	Stopped	OK			
ati2mpad	ati2mpad	c:\windows\system32\drivers\ati2mpad.sys	Kernel Driver	Running	OK	Ignore	No	Yes	Manual	

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	

crdisk	CRC Disk Filter Driver				
	c:\windows\system32\drivers\crdisk.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	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	
hpgcissb	Smart Array Controllers Non-Miniport Bus Driver				
	c:\windows\system32\drivers\hpgcissb.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
hpgcissd	Smart Array Controllers Non-Miniport Disk Driver				
	c:\windows\system32\drivers\hpgcissd.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	
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		
mmdd	mmdd				
	c:\windows\system32\drivers\mmdd.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	Yes	Manual		
	Stopped	OK	Normal	No	No
mrxsmb	MRXSMB				
	c:\windows\system32\drivers\mrxsmb.sys				
	File System Driver	Yes	System		
	Running	OK	Normal	No	Yes
msfs	Msfs				
	c:\windows\system32\drivers\msfs.sys				

	File System Driver	Yes	System		
	Running	OK	Normal	No	Yes
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	Yes	Manual		
	Running	OK	Normal	No	Yes
ndiswan	Remote Access NDIS WAN Driver				
	c:\windows\system32\drivers\ndiswan.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
ndproxy	NDIS Proxy				
	c:\windows\system32\drivers\ndproxy.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
netbios	NetBIOS Interface				
	c:\windows\system32\drivers\netbios.sys				
	File System Driver	Yes	System		
	Running	OK	Normal	No	Yes
netbt	NetBios over Tcpip				
	c:\windows\system32\drivers\netbt.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
nfrd960	nfrd960	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
npfs	Npfs				
	c:\windows\system32\drivers\npfs.sys				
	File System Driver	Yes	System		
	Running	OK	Normal	No	Yes
ntfs	Ntfs				
	c:\windows\system32\drivers\ntfs.sys				
	File System Driver	Yes	Disabled		
	Running	OK	Normal	No	Yes
null	Null				
	c:\windows\system32\drivers\null.sys				
	Kernel Driver	Yes	System		
	Running	OK	Normal	No	Yes
parport	Parallel port driver				
	c:\windows\system32\drivers\parport.sys				

	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
partmgr	Partition Manager				
	c:\windows\system32\drivers\partmgr.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
parvdm	Parvdm				
	c:\windows\system32\drivers\parvdm.sys				
	Kernel Driver	Yes	Auto		
	Running	OK	Ignore	No	Yes
pci	PCI Bus Driver				
	c:\windows\system32\drivers\pci.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Critical	No	Yes
pciide	PCIIde				
	c:\windows\system32\drivers\pciide.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
pcmcia	Pcmcia				
	c:\windows\system32\drivers\pcmcia.sys				
	Kernel Driver	No	Disabled		
	Stopped	OK	Normal	No	No
pdcomp	PDCOMP	Not Available		Kernel Driver	
	No	Manual	Stopped	OK	
	Ignore	No	No		
pdframe	PDFRAME	Not Available		Kernel Driver	
	No	Manual	Stopped	OK	
	Ignore	No	No		
pdreli	PDRELI	Not Available		Kernel Driver	
	No	Manual	Stopped	OK	
	Ignore	No	No		
pdrframe	PDRFRAME	Not Available		Kernel Driver	
	No	Manual	Stopped	OK	
	Ignore	No	No		
perc2	perc2	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
perc2hib	perc2hib	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
pptpminiport	WAN Miniport (PPTP)				
	c:\windows\system32\drivers\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


```
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
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\2

Processor Yes      PROCESSOR 5.2.3790.0
10/1/2002 (Standard processor types)
cpu.inf    Not Available
ACPI\GENUINEINTEL_-
_X86_FAMILY_15_MODEL_2\3

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
2\3&267A616A&0&00

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&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

Compaq 64-bit/66MHz Dual Channel Wide Ultra3 SCSI
Adapter Yes      SCSIADAPTER      5.2.3790.0
10/1/2002 Adaptec      pnpscsi.inf    Not
Available
PCI\VEN_9005&DEV_00C0&SUBSYS_F6200E11&REV_0
1\3&267A616A&0&10
```

```
Disk drive      Yes      DISKDRIVE 5.2.3790.0
10/1/2002 (Standard disk drives)
disk.inf    Not Available
SCSI\DISK&VEN_COMPAQ&PROD_BF01885A34&REV_HP
B4\4&E88F65D&0&000

Compaq StorageWorks/ProLiant Storage Subsystem      Yes
SYSTEM      5.2.3790.0      10/1/2002
Compaq      scsidev.inf    Not Available
SCSI\PROCESSOR&VEN_COMPAQ&PROD_PROLIANT_4L2
I&REV_1.70\4&E88F65D&0&0F0

Compaq 64-bit/66MHz Dual Channel Wide Ultra3 SCSI
Adapter Yes      SCSIADAPTER      5.2.3790.0
10/1/2002 Adaptec      pnpscsi.inf    Not
Available
PCI\VEN_9005&DEV_00C0&SUBSYS_F6200E11&REV_0
1\3&267A616A&0&11

RAGE XL PCI Family (Microsoft Corporation)      Yes
DISPLAY      5.10.2600.6014      8/8/2001 ATI
Technologies Inc.      atixpad.inf    Not Available
PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_2
7\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\AVO0000\4&89B5141&0&80000001&00&03

BCM5703 Gigabit Ethernet      Yes      NET
2.91.0.0      10/1/2002 Narrowcom      netb57xp.inf
Not Available
PCI\VEN_14E4&DEV_16A6&SUBSYS_00BB0E11&REV_0
2\3&267A616A&0&20

Compaq Advanced System Management Controller      Yes
SYSTEM      5.2.3790.0      10/1/2002
Compaq      machine.inf    Not Available
PCI\VEN_0E11&DEV_A0F0&SUBSYS_B0F30E11&REV_0
0\3&267A616A&0&28

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
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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

Printer Port      Yes      PORTS      5.2.3790.0
10/1/2002 (Standard port types)
msports.inf    Not Available
ACPI\PNP0400\5&13237358&0

Printer Port Logical Interface      Yes
SYSTEM      5.2.3790.0      10/1/2002
(Standard system devices)      machine.inf
Not Available
LPTENUM\MICROSOFTRAWPORT\6&BCCF519&0&LPT1

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)      flpydisk.inf    Not Available
FDC\GENERIC_FLOPPY_DRIVE\6&1C650E5D&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_CD-
ROM_LTN486S_____YQSK_____\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
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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&APF5358C&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
Smart Array 641 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem0.inf Not Available
PCI\VEN_0E11&DEV_0046&SUBSYS_409A0E11&REV_0
1\3&13C0B0C5&0&08
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem1.inf Not Available
HPQCISS\DISK&VEN_HP&PROD_LOGICAL_VOLUME\4&2
42FC3D1&0&0000004000000000
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem0.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\3&13C0B0C5&0&10
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem1.inf Not Available
HPQCISS\DISK&VEN_HP&PROD_LOGICAL_VOLUME\4&2
4E6AAC0F&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem1.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\4&E6AAC0F&0&0100004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem1.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\4&E6AAC0F&0&0200004000000000
PCI bus Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0A03\2

```

```

Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem0.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\3&1070020&0&08
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem1.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\4&33332AB6&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem1.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\4&33332AB6&0&0100004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem1.inf Not Available
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem0.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\3&1070020&0&10
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem1.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\4&16A16360&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem1.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\4&16A16360&0&0200004000000000
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&SIGNATURE6B7944
630FFSET10000LENGTH21EA100000
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not

```

```

Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE620C31
OFFSET10000LENGTHB7B200000
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE620C33
OFFSET10000LENGTH597100000
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE620COD
OFFSET7E00LENGTH15238ABE00
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE620C0F
OFFSET10000LENGTHB7B200000
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE620C09
OFFSET10000LENGTH597100000
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE620C0B
OFFSET7E00LENGTH15238ABE00
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE620C04
OFFSET10000LENGTHB7B200000
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE620C06
OFFSET10000LENGTH597100000
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE620C00
OFFSET7E00LENGTH15238ABE00
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATUREE1DEE1
DEOFFSET7E00LENGTH7D0400
Generic volume Yes VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATUREE1DEE1
DEOFFSET7D8200LENGTH43BF9C600
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
cpqcissm Not Available LEGACYDRIVER Not
Available Not Available Not Available Not

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Available Not Available
  ROOT\LEGACY_CPQCISSM\0000
CRC Disk Filter Driver Not Available
  LEGACYDRIVER Not Available Not
Available Not Available Not Available Not
Available ROOT\LEGACY_CRCDDISK\0000
dmboot 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 Not Available
  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
  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_MNDD\0000

mountmgr Not Available LEGACYDRIVER Not
Available Not Available Not Available Not
Available Not Available
  ROOT\LEGACY_MOUNTMGR\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
  ROOT\LEGACY_NDPROXY\0000
NetBios over Tcpip 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

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Partition Manager Not Available LEGACYDRIVER
  Not Available Not Available Not
Available Not Available Not Available Not
  ROOT\LEGACY_PARTMGR\0000
Parvdm Not Available LEGACYDRIVER Not
Available Not Available Not Available Not
Available Not Available ROOT\LEGACY_PARVDM\0000

Remote Access Auto Connection Driver Not Available
  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 Not Available
  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. Not Available
  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
  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 Yes MEDIA 5.2.3790.0
  10/1/2002 (Standard system devices)
  wave.inf Not Available
  ROOT\MEDIA\MS_MMCM
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_MMCI
Legacy Video Capture Devices Yes MEDIA
  5.2.3790.0 10/1/2002 (Standard
  system devices) wave.inf Not Available
  ROOT\MEDIA\MS_MVCD
Video Codecs 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 ROOT\MS_L2TPMINIPORT\0000

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WAN Miniport (IP) Yes NET 5.2.3790.0
  10/1/2002 Microsoft netrasa.inf Not
  Available ROOT\MS_NDISWANIP\0000
WAN Miniport (PPPOE) Yes NET
  5.2.3790.0 10/1/2002 Microsoft
  netrasa.inf Not Available
  ROOT\MS_PPPoEMINIPORT\0000
WAN Miniport (PPTP) Yes NET 5.2.3790.0
  10/1/2002 Microsoft netrasa.inf Not
  Available ROOT\MS_PPTPMINIPORT\0000
Direct Parallel Yes NET 5.2.3790.0
  10/1/2002 Microsoft netrasa.inf Not
  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\RDPDR\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 2 <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

```

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TMP      %USERPROFILE%\Local Settings\Temp      NT
AUTHORITY\LOCAL SERVICE
TMP      %USERPROFILE%\Local Settings\Temp      NT
AUTHORITY\NETWORK SERVICE
TMP      %USERPROFILE%\Local Settings\Temp      NT
AUTHORITY\NETWORK SERVICE
TMP      %USERPROFILE%\Local Settings\Temp
ACE2\Administrator
TMP      %USERPROFILE%\Local Settings\Temp
ACE2\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
Available
system Not Available 4 8 0
1413120 Not Available Not Available
smss.exe Not Available 440 11
204800 1413120 2/23/2004 5:06 PM Not
Available Not Available Not Available Not
csrss.exe Not Available 488 13 Not
Available Not Available 2/23/2004 5:07 PM Not
Available Not Available Not Available
winlogon.exe c:\windows\system32\winlogon.exe
512 13 204800 1413120
2/23/2004 5:07 PM 5.2.3790.0
(srv03_rtm.030324-2048) 536.50 KB (549,376
bytes) 3/25/2003 12:00 AM
services.exe c:\windows\system32\services.exe
556 9 204800 1413120
2/23/2004 5:07 PM 5.2.3790.0
(srv03_rtm.030324-2048) 102.00 KB (104,448
bytes) 3/25/2003 12:00 AM
lsass.exe c:\windows\system32\lsass.exe 568 9
204800 1413120 2/23/2004 5:07 PM
5.2.3790.0 (srv03_rtm.030324-2048)
13.00 KB (13,312 bytes) 3/25/2003

12:00 AM
svchost.exe c:\windows\system32\svchost.exe
724 8 204800 1413120
2/23/2004 5:07 PM 5.2.3790.0
(srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 12:00 AM

```

```

svchost.exe c:\windows\system32\svchost.exe
788 8 204800 1413120
2/23/2004 5:07 PM 5.2.3790.0
(srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 12:00 AM
svchost.exe Not Available 936 8
Not Available Not Available
2/23/2004 5:07 PM Not Available Not
Available Not Available
svchost.exe Not Available 984 8
Not Available Not Available
2/23/2004 5:07 PM Not Available Not
Available Not Available
svchost.exe c:\windows\system32\svchost.exe
996 8 204800 1413120
2/23/2004 5:07 PM 5.2.3790.0
(srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 12:00 AM
spoolsv.exe c:\windows\system32\spoolsv.exe
1160 8 204800 1413120
2/23/2004 5:07 PM 5.2.3790.0
(srv03_rtm.030324-2048) 55.00 KB (56,320 bytes)
3/25/2003 12:00 AM
msdtc.exe Not Available 1188 8 Not
Available Not Available 2/23/2004 5:07 PM Not
Available Not Available Not Available
svchost.exe c:\windows\system32\svchost.exe
1328 8 204800 1413120
2/23/2004 5:07 PM 5.2.3790.0
(srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 12:00 AM
svchost.exe Not Available 1416 8
Not Available Not Available
2/23/2004 5:07 PM Not Available Not
Available Not Available
mssearch.exe c:\program files\common
files\system\mssearch\bin\mssearch.exe 1520 8
204800 1413120 2/23/2004 5:07 PM
9.107.8320.0 68.00 KB (69,632 bytes)
1/21/2003 9:30 AM
dfssvc.exe c:\windows\system32\dfssvc.exe
1636 8 204800 1413120
2/23/2004 5:07 PM 5.2.3790.0
(srv03_rtm.030324-2048) 130.50 KB (133,632
bytes) 3/25/2003 12:00 AM
explorer.exe c:\windows\explorer.exe
1824 8 204800 1413120
2/23/2004 5:07 PM 6.00.3790.0
(srv03_rtm.030324-2048) 1,008.50 KB (1,032,704
bytes) 3/25/2003 12:00 AM
sqlmangr.exe c:\program files\microsoft sql
server\80\tools\bin\sqlmangr.exe 1880 8
204800 1413120 2/23/2004 5:07 PM
2000.080.0760.00 72.57 KB (74,308 bytes)
1/28/2004 4:36 PM
wmiprvse.exe Not Available 420 8
Not Available Not Available
2/23/2004 5:08 PM Not Available Not
Available Not Available
helpctr.exe c:\windows\pchealth\helpctr\binaries\helpctr
.exe 1648 8 204800 1413120
2/24/2004 10:22 AM 5.2.3790.0

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(srv03_rtm.030324-2048) 764.00 KB (782,336
bytes) 1/28/2004 4:20 PM
helpsvc.exe c:\windows\pchealth\helpctr\binaries\helpsv
c.exe 1808 8 204800 1413120
2/24/2004 10:22 AM 5.2.3790.0
(srv03_rtm.030324-2048) 720.00 KB (737,280
bytes) 1/28/2004 4:20 PM
wmiprvse.exe Not Available 1044 8
Not Available Not Available
2/24/2004 10:22 AM Not Available Not
Available Not Available

[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
Microsoft Corporation
12:00 AM c:\windows\system32\winlogon.exe
ntdll 5.2.3790.0 (srv03_rtm.030324-2048)
722.50 KB (739,840 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\ntdll.dll
kernel32 5.2.3790.0 (srv03_rtm.030324-2048)
965.00 KB (988,160 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\kernel32.dll
msvcrt 7.0.3790.0 (srv03_rtm.030324-2048)
319.50 KB (327,168 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\msvcrt.dll
advapi32 5.2.3790.0 (srv03_rtm.030324-2048)
559.50 KB (572,928 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\advapi32.dll
rpcrt4 5.2.3790.0 (srv03_rtm.030324-2048)
643.50 KB (658,944 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\rpcrt4.dll
user32 5.2.3790.0 (srv03_rtm.030324-2048)
562.00 KB (575,488 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\user32.dll
gdi32 5.2.3790.0 (srv03_rtm.030324-2048)
263.00 KB (269,312 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\gdi32.dll
userenv 5.2.3790.0 (srv03_rtm.030324-2048)
732.50 KB (750,080 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\userenv.dll
nddeapi 5.2.3790.0 (srv03_rtm.030324-2048)
16.00 KB (16,384 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\nddeapi.dll
crypt32 5.131.3790.0 (srv03_rtm.030324-2048)
598.00 KB (612,352 bytes) 3/25/2003
Microsoft Corporation
12:00 AM c:\windows\system32\crypt32.dll
msasn1 5.2.3790.0 (srv03_rtm.030324-2048)
58.00 KB (59,392 bytes) 3/25/2003

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12:00 AM Microsoft Corporation
 secur32 c:\windows\system32\msasn1.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 63.00 KB (64,512 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 winsta c:\windows\system32\secur32.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 51.00 KB (52,224 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 netapi32 c:\windows\system32\winsta.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 317.00 KB (324,608 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 profmap c:\windows\system32\netapi32.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 22.00 KB (22,528 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 regapi c:\windows\system32\profmap.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 48.50 KB (49,664 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 ws2_32 c:\windows\system32\regapi.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 87.50 KB (89,600 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 ws2help c:\windows\system32\ws2_32.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 19.50 KB (19,968 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 psapi c:\windows\system32\ws2help.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 21.50 KB (22,016 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 version c:\windows\system32\psapi.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 17.00 KB (17,408 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 setupapi c:\windows\system32\version.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 1,014.50 KB (1,038,848 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 msgina c:\windows\system32\setupapi.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 1.14 MB (1,191,936 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 shsvcs c:\windows\system32\msgina.dll
 6.00.3790.0 (srv03_rtm.030324-2048)
 121.50 KB (124,416 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 shlwapi c:\windows\system32\shsvcs.dll
 6.00.3790.0 (srv03_rtm.030324-2048)
 281.00 KB (287,744 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 sfc c:\windows\system32\shlwapi.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 4.50 KB (4,608 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 sfc_os c:\windows\system32\sfc.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 133.00 KB (136,192 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 sfc_os.dll c:\windows\system32\sfc_os.dll

wintrust 5.131.3790.0 (srv03_rtm.030324-2048)
 161.50 KB (165,376 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 ole32 c:\windows\system32\wintrust.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 1.13 MB (1,187,328 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 imagehlp c:\windows\system32\ole32.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 142.50 KB (145,920 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 comctl32 c:\windows\system32\imagehlp.dll
 6.0 (srv03_rtm.030324-2048) 907.00 KB
 (928,768 bytes) 1/28/2004 10:11 AM Microsoft
 Corporation
 mon-controls c:\windows\winsxs\x86_microsoft.windows.com
 _6595b64144ccf1df.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
 12:00 AM Microsoft Corporation
 wtsapi32 c:\windows\system32\winscard.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 17.50 KB (17,920 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 sxs c:\windows\system32\wtsapi32.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 733.00 KB (750,592 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 winmm c:\windows\system32\sxs.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 166.00 KB (169,984 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 shell32 c:\windows\system32\winmm.dll
 6.00.3790.0 (srv03_rtm.030324-2048)
 7.79 MB (8,166,400 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 wldap32 c:\windows\system32\shell32.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 158.00 KB (161,792 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 rsaenh c:\windows\system32\wldap32.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 176.83 KB (181,072 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 cscdll c:\windows\system32\rsaenh.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 99.00 KB (101,376 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 wlnotify c:\windows\system32\cscdll.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 87.50 KB (89,600 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 winspool c:\windows\system32\wlnotify.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 140.00 KB (143,360 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 mpr c:\windows\system32\winspool.drv
 5.2.3790.0 (srv03_rtm.030324-2048)
 56.00 KB (57,344 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 mpr.dll c:\windows\system32\mpr.dll

comctl32 5.82 (srv03_rtm.030324-2048) 561.00 KB
 (574,464 bytes) 1/28/2004 10:11 AM Microsoft
 Corporation
 mon-controls c:\windows\winsxs\x86_microsoft.windows.com
 _6595b64144ccf1df.5.82.0.0_x-
 ww_8a69ba05\comctl32.dll
 uxtheme 6.00.3790.0 (srv03_rtm.030324-2048)
 196.00 KB (200,704 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 samlib c:\windows\system32\uxtheme.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 49.00 KB (50,176 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 csui c:\windows\system32\samlib.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 305.00 KB (312,320 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 oleaut32 c:\windows\system32\csui.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 486.00 KB (497,664
 bytes) 3/25/2003 12:00 AM Microsoft Corporation
 c:\windows\system32\oleaut32.dll
 2001.12.4720.0 (srv03_rtm.030324-2048)
 481.00 KB (492,544 bytes) 1/28/2004
 Microsoft Corporation
 comres c:\windows\system32\oleaut32.dll
 2001.12.4720.0 (srv03_rtm.030324-2048)
 778.00 KB (796,672 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 ntmarta c:\windows\system32\comres.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 114.00 KB (116,736 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 wbemprox c:\windows\system32\ntmarta.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 17.50 KB (17,920 bytes) 1/28/2004
 4:17 PM Microsoft Corporation
 c:\windows\system32\wbem\wbemprox.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 211.50 KB (216,576 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 wbemsvc c:\windows\system32\wbem\wbemprox.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 42.50 KB (43,520 bytes) 1/28/2004
 4:17 PM Microsoft Corporation
 c:\windows\system32\wbem\wbemsvc.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 443.00 KB (453,632 bytes) 1/28/2004
 4:17 PM Microsoft Corporation
 fastprox c:\windows\system32\wbem\wbemsvc.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 76.00 KB (77,824 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 dnsapi c:\windows\system32\fastprox.dll
 6.05.2144.0 388.00 KB (397,312
 bytes) 3/25/2003 12:00 AM Microsoft Corporation
 c:\windows\system32\msvc60.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 76.00 KB (77,824 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 dnsapi c:\windows\system32\msvc60.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 147.50 KB (151,040 bytes) 3/25/2003
 12:00 AM Microsoft Corporation
 services c:\windows\system32\dnsapi.dll
 5.2.3790.0 (srv03_rtm.030324-2048)
 102.00 KB (104,448 bytes) 3/25/2003

12:00 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
12:00 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
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\ncobjapi.dll
eventlog 5.2.3790.0 (srv03_rtm.030324-2048)
60.50 KB (61,952 bytes) 3/25/2003
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\lsasrv.dll
samsvr 5.2.3790.0 (srv03_rtm.030324-2048)
452.00 KB (462,848 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\samsvr.dll
cryptdll 5.2.3790.0 (srv03_rtm.030324-2048)
34.00 KB (34,816 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\cryptdll.dll
msprivs 5.2.3790.0 (srv03_rtm.030324-2048)
46.50 KB (47,616 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\msprivs.dll
kerberos 5.2.3790.0 (srv03_rtm.030324-2048)
332.50 KB (340,480 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\kerberos.dll
msv1_0 5.2.3790.0 (srv03_rtm.030324-2048)
127.00 KB (130,048 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\msv1_0.dll
netlogon 5.2.3790.0 (srv03_rtm.030324-2048)
409.00 KB (418,816 bytes) 3/25/2003
12:00 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
12:00 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
12:00 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
12:00 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
12:00 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
12:00 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
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\ntdsatq.dll
msock 5.2.3790.0 (srv03_rtm.030324-2048)
254.00 KB (260,096 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\msock.dll
esent 5.2.3790.0 (srv03_rtm.030324-2048)
1.01 MB (1,056,256 bytes) 3/25/2003
12:00 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
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\ipsecsvc.dll
oakley 5.2.3790.0 (srv03_rtm.030324-2048)
325.50 KB (333,312 bytes) 3/25/2003
12:00 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
12:00 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
12:00 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
12:00 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

12:00 AM Microsoft Corporation
c:\windows\system32\dssenh.dll
wlbsctrl 5.2.3790.0 (srv03_rtm.030324-2048)
78.00 KB (79,872 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\wlbsctrl.dll
svchost 5.2.3790.0 (srv03_rtm.030324-2048)
13.00 KB (13,312 bytes) 3/25/2003
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\rpcss.dll
termsrv 5.2.3790.0 (srv03_rtm.030324-2048)
216.50 KB (221,696 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\termsrv.dll
icaapi 5.2.3790.0 (srv03_rtm.030324-2048)
10.50 KB (10,752 bytes) 1/28/2004
4:17 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\activeds.dll
adslrpc 5.2.3790.0 (srv03_rtm.030324-2048)
142.50 KB (145,920 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\adslrpc.dll
credui 5.2.3790.0 (srv03_rtm.030324-2048)
159.00 KB (162,816 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\credui.dll
atl 3.05.2283 83.00 KB (84,992 bytes)
3/25/2003 12:00 AM Microsoft Corporation
c:\windows\system32\atl.dll
rdpwsx 5.2.3790.0 (srv03_rtm.030324-2048)
80.13 KB (82,056 bytes) 1/28/2004
4:17 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
12:00 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
12:00 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
12:00 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

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12:00 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
12:00 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
12:00 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
12:00 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
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\raschap.dll
schedsvc 5.2.3790.0 (srv03_rtm.030324-2048)
176.00 KB (180,224 bytes) 1/28/2004
4:20 PM Microsoft Corporation
c:\windows\system32\schedsvc.dll
msidle 6.00.3790.0 (srv03_rtm.030324-2048)
5.50 KB (5,632 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\msidle.dll
wkssvc 5.2.3790.0 (srv03_rtm.030324-2048)
125.00 KB (128,000 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\wkssvc.dll
wiarpc 5.2.3790.0 (srv03_rtm.030324-2048)
30.00 KB (30,720 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\wiarpc.dll
cryptsvc 5.2.3790.0 (srv03_rtm.030324-2048)
51.00 KB (52,224 bytes) 3/25/2003
12:00 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
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\dmserver.dll
pchsvc 5.2.3790.0 (srv03_rtm.030324-2048)
31.50 KB (32,256 bytes) 1/28/2004
4:20 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchsvc
.dll

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es 2001.12.4720.0 (srv03_rtm.030324-2048)
221.50 KB (226,816 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\es.dll
srvsvc 5.2.3790.0 (srv03_rtm.030324-2048)
89.00 KB (91,136 bytes) 3/25/2003
12:00 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
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\trkwks.dll
wmisvc 5.2.3790.0 (srv03_rtm.030324-2048)
131.00 KB (134,144 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\wmisvc.dll
wuauerv 5.4.3790.0 (srv03_rtm.030324-2048)
10.50 KB (10,752 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\wuauerv.dll
wuaueng 5.4.3790.0 (srv03_rtm.030324-2048)
188.50 KB (193,024 bytes) 1/28/2004
4:17 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\wininet.dll
winrn 5.2.3790.0 (srv03_rtm.030324-2048)
15.00 KB (15,360 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\winrn.dll
comsvcs 2001.12.4720.0 (srv03_rtm.030324-2048)
1.14 MB (1,199,616 bytes) 1/28/2004
4:17 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
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\netrap.dll
netman 5.2.3790.0 (srv03_rtm.030324-2048)
209.00 KB (214,016 bytes) 3/25/2003

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12:00 AM 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
6:15 AM 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
12:00 AM 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
12:00 AM Microsoft Corporation
c:\windows\system32\clusapi.dll
hnetcfg 5.2.3790.0 (srv03_rtm.030324-2048)
243.50 KB (249,344 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\hnetcfg.dll
wbemcore 5.2.3790.0 (srv03_rtm.030324-2048)
457.00 KB (467,968 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\wbem\wbemcore.dll
esscli 5.2.3790.0 (srv03_rtm.030324-2048)
235.50 KB (241,152 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\wbem\esscli.dll
wmiutils 5.2.3790.0 (srv03_rtm.030324-2048)
90.50 KB (92,672 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\wbem\wmiutils.dll
repdrvfs 5.2.3790.0 (srv03_rtm.030324-2048)
165.00 KB (168,960 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\wbem\repdrvfs.dll
wmiprvsd 5.2.3790.0 (srv03_rtm.030324-2048)
405.50 KB (415,232 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\wbem\wmiprvsd.dll
wbemess 5.2.3790.0 (srv03_rtm.030324-2048)
256.50 KB (262,656 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\wbem\wbemess.dll
rasdlg 5.2.3790.0 (srv03_rtm.030324-2048)
642.00 KB (657,408 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\rasdlg.dll
ncprov 5.2.3790.0 (srv03_rtm.030324-2048)
43.00 KB (44,032 bytes) 1/28/2004
4:17 PM Microsoft Corporation
c:\windows\system32\wbem\ncprov.dll
winhttp 5.2.3790.0 (srv03_rtm.030324-2048)
327.50 KB (335,360 bytes) 1/28/2004
10:11 AM Microsoft Corporation
c:\windows\winsxs\x86_microsoft.windows.win
http_6595b64144ccf1df_5.1.0.0_x-
ww_e0651936\winhttp.dll
sensapi 5.2.3790.0 (srv03_rtm.030324-2048)
6.00 KB (6,144 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\sensapi.dll
ntlsapi 5.2.3790.0 (srv03_rtm.030324-2048)
8.00 KB (8,192 bytes) 3/25/2003

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12:00 AM Microsoft Corporation
c:\windows\system32\ntlsapi.dll
spoolsv 5.2.3790.0 (srv03_rtm.030324-2048)
55.00 KB (56,320 bytes) 3/25/2003
12:00 AM 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
12:00 AM 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
12:00 AM Microsoft Corporation
c:\windows\system32\localspl.dll
cnbjmon 5.2.3680.0 (Lab03_dev\skatari).020509-1043)
45.50 KB (46,592 bytes) 3/24/2003
7:48 PM 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
7:49 PM 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
12:00 AM 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
12:00 AM 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
12:00 AM 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
12:00 AM 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
12:00 AM 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
12:00 AM 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
12:00 AM 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
12:00 AM 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
12:00 AM Microsoft Corporation
c:\windows\system32\icmp.dll
ersvc 5.2.3790.0 (srv03_rtm.030324-2048)
22.00 KB (22,528 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\ersvc.dll

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mssearch 9.107.8320.0 68.00 KB (69,632 bytes)
1/21/2003 9:30 AM Microsoft Corporation
c:\program files\common
files\system\mssearch\bin\mssearch.exe
mssws 9.107.8320.0 32.00 KB (32,768 bytes)
1/21/2003 9:30 AM Microsoft Corporation
c:\program files\common
files\system\mssearch\bin\mssws.dll
msrch 9.107.8320.0 1.24 MB (1,302,528
bytes) 1/21/2003 9:30 AM Microsoft Corporation
c:\progra-1\common-1\system\mssearch\bin\ms
srch.dll
security 5.2.3790.0 (srv03_rtm.030324-2048)
5.50 KB (5,632 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\security.dll
tquery 9.107.8320.0 1.46 MB (1,536,000
bytes) 1/21/2003 9:30 AM Microsoft Corporation
c:\program files\common
files\system\mssearch\bin\tquery.dll
propdefs 9.107.8320.0 136.00 KB (139,264
bytes) 1/21/2003 9:30 AM Microsoft Corporation
c:\progra-1\common-1\system\mssearch\bin\pr
opdefs.dll
srchidx 9.107.8320.0 384.00 KB (393,216
bytes) 1/21/2003 9:30 AM Microsoft Corporation
c:\progra-1\common-1\system\mssearch\bin\sr
chidx.dll
iprop 5.2.3790.0 (srv03_rtm.030324-2048)
3.50 KB (3,584 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\iprop.dll
athprxy 9.107.8320.0 32.00 KB (32,768 bytes)
1/21/2003 9:30 AM Microsoft Corporation
c:\windows\system32\athprxy.dll
dfssvc 5.2.3790.0 (srv03_rtm.030324-2048)
130.50 KB (133,632 bytes) 3/25/2003
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\resutils.dll
mfc42u 6.05.3014.0 960.00 KB (983,040
bytes) 3/25/2003 12:00 AM Microsoft Corporation
c:\windows\system32\mfc42u.dll
wsock32 5.2.3790.0 (srv03_rtm.030324-2048)
22.00 KB (22,528 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\wsock32.dll
explorer 6.00.3790.0 (srv03_rtm.030324-2048)
1,008.50 KB (1,032,704 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\explorer.exe
browseui 6.00.3790.0 (srv03_rtm.030324-2048)
1.01 MB (1,057,280 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\browseui.dll
shdocvw 6.00.3790.0 (srv03_rtm.030324-2048)
1.33 MB (1,393,664 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\shdocvw.dll

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apphelp 5.2.3790.0 (srv03_rtm.030324-2048)
122.00 KB (124,928 bytes) 3/25/2003
Microsoft Corporation
c:\windows\system32\apphelp.dll
themeui 6.00.3790.0 (srv03_rtm.030324-2048)
360.50 KB (369,152 bytes) 3/25/2003
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\linkinfo.dll
ntshrui 6.00.3790.0 (srv03_rtm.030324-2048)
136.00 KB (139,264 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\ntshrui.dll
urlmon 6.00.3790.0 (srv03_rtm.030324-2048)
501.50 KB (513,536 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\urlmon.dll
webcheck 6.00.3790.0 (srv03_rtm.030324-2048)
261.50 KB (267,776 bytes) 3/25/2003
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\stobject.dll
batmeter 6.00.3790.0 (srv03_rtm.030324-2048)
28.50 KB (29,184 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\batmeter.dll
powrprof 6.00.3790.0 (srv03_rtm.030324-2048)
14.50 KB (14,848 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\powrprof.dll
printui 5.2.3790.0 (srv03_rtm.030324-2048)
536.50 KB (549,376 bytes) 3/25/2003
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\cfgmgr32.dll
browselc 6.00.3790.0 (srv03_rtm.030324-2048)
62.00 KB (63,488 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\browselc.dll
drprov 5.2.3790.0 (srv03_rtm.030324-2048)
12.50 KB (12,800 bytes) 3/25/2003
12:00 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
12:00 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

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12:00 AM Microsoft Corporation
c:\windows\system32\netui0.dll
netui1 5.2.3790.0 (srv03_rtm.030324-2048)
184.00 KB (188,416 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\netui1.dll
davclnt 5.2.3790.0 (srv03_rtm.030324-2048)
23.50 KB (24,064 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\davclnt.dll
shdoclc 6.00.3790.0 (srv03_rtm.030324-2048)
588.50 KB (602,624 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\shdoclc.dll
sqlmangr 2000.080.0760.00 72.57 KB (74,308 bytes)
1/28/2004 4:36 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) 3/25/2003 12:00 AM Microsoft Corporation
c:\windows\system32\sqlunirl.dll
comdlg32 6.00.3790.0 (srv03_rtm.030324-2048)
261.00 KB (267,264 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\comdlg32.dll
w95scm 2000.080.0760.00 48.56 KB (49,728 bytes)
1/28/2004 4:36 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\w95scm.dll
odbc32 3.525.1022.0 (srv03_rtm.030324-2048)
232.00 KB (237,568 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\odbc32.dll
sqlsvc 2000.080.0760.00 92.56 KB (94,784 bytes)
1/28/2004 4:36 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\sqlsvc.dll
odbcbc 2000.085.1022.00 (srv03_rtm.030324-2048)
24.00 KB (24,576 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\odbcbc.dll
sqlresld 2000.080.0382.00 28.56 KB (29,248 bytes)
1/28/2004 4:36 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\sqlresld.dll
odbcint 3.525.1022.0 (srv03_rtm.030324-2048)
92.00 KB (94,208 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\odbcint.dll
sqlsvc 2000.080.0194.00 24.00 KB (24,576 bytes)
1/28/2004 4:36 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\resources\1033\sqlsvc.rll
sqlmangr 2000.080.0194.00 96.00 KB (98,304 bytes)
1/28/2004 4:36 PM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\resources\1033\sqlmangr.rll
helpctr 5.2.3790.0 (srv03_rtm.030324-2048)
764.00 KB (782,336 bytes) 1/28/2004
4:20 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpctr
.exe

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hcappres 5.2.3790.0 (srv03_rtm.030324-2048)
6.50 KB (6,656 bytes) 1/28/2004
4:20 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\hcappr
es.dll
itss 5.2.3790.0 (srv03_rtm.030324-2048)
119.50 KB (122,368 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\itss.dll
msxml3 8.40.9419.0 1.28 MB (1,337,344
bytes) 3/25/2003 12:00 AM Microsoft Corporation
c:\windows\system32\msxml3.dll
pchshell 5.2.3790.0 (srv03_rtm.030324-2048)
100.50 KB (102,912 bytes) 1/28/2004
4:20 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchsh
e
11.dll
mlang 6.00.3790.0 (srv03_rtm.030324-2048)
570.00 KB (583,680 bytes) 3/25/2003
12:00 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
12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\msctf.dll
jscript 5.6.0.8515 436.00 KB (446,464
bytes) 3/25/2003 12:00 AM Microsoft Corporation
c:\windows\system32\jscript.dll
msls31 3.10.349.0 147.00 KB (150,528
bytes) 3/25/2003 12:00 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
12:00 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
12:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
vbscript 5.6.0.8515 404.00 KB (413,696
bytes) 3/25/2003 12:00 AM Microsoft Corporation
c:\windows\system32\vbscript.dll
mfc42 6.05.3014.0 960.00 KB (983,040
bytes) 3/25/2003 12:00 AM Microsoft Corporation
c:\windows\system32\mfc42.dll
msinfo 5.2.3790.0 (srv03_rtm.030324-2048)
358.50 KB (367,104 bytes) 1/28/2004
4:20 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo
.dll
riched32 5.2.3790.0 (srv03_rtm.030324-2048)
3.50 KB (3,584 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\riched32.dll

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riched20 5.31.23.1218 406.00 KB (415,744
bytes) 3/25/2003 12:00 AM Microsoft Corporation
c:\windows\system32\riched20.dll
mydocs 6.00.3790.0 (srv03_rtm.030324-2048)
88.00 KB (90,112 bytes) 3/25/2003
12:00 AM Microsoft Corporation
c:\windows\system32\mydocs.dll
helpsvc 5.2.3790.0 (srv03_rtm.030324-2048)
720.00 KB (737,280 bytes) 1/28/2004
4:20 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpsv
c.exe

[Services]

Display Name Name State Start Mode
Service Type Path Error Control
Start Name Tag ID
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 Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Background Intelligent Transfer Service BITS
Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Computer Browser Browser Running Auto
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Indexing Service CIsvc Stopped Disabled
Share Process
c:\windows\system32\cisvc.exe Normal
LocalSystem 0
ClipBook ClipSrv Stopped Disabled Own Process
c:\windows\system32\clipsrv.exe
Normal LocalSystem 0
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
dmdadmin Stopped Manual Share Process
c:\windows\system32\dmdadmin.exe /com
Normal LocalSystem 0
Logical Disk Manager dmserver Running
Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
DNS Client Dnscache Running Auto
Share Process
c:\windows\system32\svchost.exe -k
networkservice Normal NT
AUTHORITY\NetworkService 0
Error Reporting Service ERSvc Running
Auto Share Process
c:\windows\system32\svchost.exe -k winerr
Ignore LocalSystem 0
Event Log Eventlog Running Auto Share Process
c:\windows\system32\services.exe
Normal LocalSystem 0
COM+ Event System EventSystem Running
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 Stopped Manual
Share Process
c:\windows\system32\lsass.exe Normal
LocalSystem 0
IMAPI CD-Burning COM Service ImapiService
Stopped Disabled Own Process
c:\windows\system32\imapi.exe Normal
LocalSystem 0
Intersite Messaging IsmServ Stopped Disabled Own
Process c:\windows\system32\ismserv.exe
Normal LocalSystem 0
Kerberos Key Distribution Center kdc
Stopped Disabled Share Process
c:\windows\system32\lsass.exe Normal
LocalSystem 0
Server lanmanserver Running Auto
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Workstation lanmanworkstation Running
Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
License Logging LicenseService Stopped
Disabled Own Process
c:\windows\system32\llssrv.exe

```

```

Normal NT AUTHORITY\NetworkService 0
TCP/IP NetBIOS Helper LmHosts Running
Auto Share Process
c:\windows\system32\svchost.exe -k
localservice Normal NT
AUTHORITY\LocalService 0
Messenger Messenger Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
NetMeeting Remote Desktop Sharing nmmsrvc
Stopped Disabled Own Process
c:\windows\system32\nmmsrvc.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
Microsoft Search MSSEARCH Running Auto
Share Process "c:\program
files\common files\search\bin\mssearch.exe"
Normal LocalSystem 0
MSSQLSERVER MSSQLSERVER Stopped
Manual Own Process
c:\program files\microso~1\micro~1\mssql\bin\sqlservr.ex
e 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 NtLmSsp
Running 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
SQLSERVERAGENT SQLSERVERAGENT Stopped
Manual Own Process
c:\progra-1\microso-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
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\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 wuauclt Running Auto
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Wireless Configuration WZCVC 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
Microsoft SQL Server - Switch All Users:Microsoft SQL
Server - Switch 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 ACE2\Administrator:Accessories
ACE2\Administrator
Accessories\Accessibility
ACE2\Administrator:Accessories\Accessibilit
y ACE2\Administrator
Accessories\Entertainment
ACE2\Administrator:Accessories\Entertainmen
t ACE2\Administrator
Administrative Tools
ACE2\Administrator:Administrative Tools
Startup ACE2\Administrator:Startup
ACE2\Administrator

[Startup Programs]
Program Command User Name Location
desktop desktop.ini NT AUTHORITY\SYSTEM
Startup
desktop desktop.ini ACE2\Administrator
Startup
desktop desktop.ini .DEFAULT Startup
desktop desktop.ini All Users Common
Startup
Service Manager
c:\progra-1\microso-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	Available	Not
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
actxprxy.dll	6.0.3790.0	95 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
advpack.dll	6.0.3790.0	94 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
asctrls.ocx	6.0.3790.0	90 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
browseic.dll	6.0.3790.0	62 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
browseui.dll	6.0.3790.0	1,033 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
cdfview.dll	6.0.3790.0	144 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation

comctl32.dll	5.82.3790.0	561 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
dxtrans.dll	6.3.3790.0	198 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
dxtrans.dll	6.3.3790.0	344 KB		
	3/25/2003			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			C:\WINDOWS\system32 Microsoft Corporation
iepeers.dll	6.0.3790.0	230 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
iesetup.dll	6.0.3790.0	59 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
ieunit.inf	Not Available	20 KB		
	3/25/2003			C:\WINDOWS\system32 Not Available
ieexplore.exe	6.0.3790.0	90 KB		
	3/25/2003			C:\Program Files\Internet Explorer Microsoft Corporation
imgutil.dll	5.2.3790.0	35 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
inetcpl.cpl	6.0.3790.0	303 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
inetcplc.dll	6.0.3790.0	109 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
inseng.dll	6.0.3790.0	72 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
mlang.dll	6.0.3790.0	570 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
msencode.dll	2002.10.4.0	112 KB		
	3/25/2003			C:\WINDOWS\system32 Not Available
mshta.exe	6.0.3790.0	26 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll	6.0.3790.0	2,848 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
mshtml.tlb	6.0.3790.0	1,319 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll	6.0.3790.0	444 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
mshtmlr.dll	6.0.3790.0	55 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation

msident.dll	6.0.3790.0	47 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
msidntld.dll	6.0.3790.0	15 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
msieftp.dll	6.0.3790.0	230 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
msrating.dll	6.0.3790.0	132 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
mstime.dll	6.0.3790.0	491 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
occache.dll	6.0.3790.0	89 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
proctexe.ocx	6.3.3790.0	78 KB		
	3/25/2003			C:\WINDOWS\system32 Intel Corporation
sendmail.dll	6.0.3790.0	52 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
shdoclc.dll	6.0.3790.0	589 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
shdocvw.dll	6.0.3790.0	1,361 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
shfolder.dll	6.0.3790.0	23 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
shlwapi.dll	6.0.3790.0	281 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
tdc.ocx	1.3.0.3130	58 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
url.dll	6.0.3790.0	36 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
urlmon.dll	6.0.3790.0	502 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
webcheck.dll	6.0.3790.0	262 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation
wininet.dll	6.0.3790.0	609 KB		
	3/25/2003			C:\WINDOWS\system32 Microsoft Corporation

[Connectivity]

Item	Value
Connection Preference	Never dial

LAN Settings

AutoConfigProxy	Not Available
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\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

Client Summary

System Information report written at: 02/23/2004
06:04:32 PM
[System Information]

[Following are sub-categories of this main category]

[System Summary]

Item	Value
OS Name	Microsoft Windows 2000 Server
Version	5.0.2195 Service Pack 2 Build 2195
OS Manufacturer	Microsoft Corporation
System Name	CL250
System Manufacturer	HP
System Model	ProLiant DL140
System Type	X86-based PC
Processor	x86 Family 15 Model 2 Stepping 9
GenuineIntel	~37426 Mhz
Processor	x86 Family 15 Model 2 Stepping 9
GenuineIntel	~37426 Mhz
BIOS Version	11/12/03
Windows Directory	C:\WINNT
System Directory	C:\WINNT\System32
Boot Device	\Device\Harddisk0\Partition1
Locale	United States
User Name	CL250\Administrator
Time Zone	Central Standard Time
Total Physical Memory	1,048,044 KB
Available Physical Memory	895,796 KB
Total Virtual Memory	3,570,352 KB
Available Virtual Memory	3,353,648 KB
Page File Space	2,522,308 KB
Page File	C:\pagefile.sys

[Hardware Resources]

[Following are sub-categories of this main category]

[Conflicts/Sharing]

Resource	Device
No conflicted/shared resources	

[DMA]

Channel	Device	Status
4	Direct memory access controller	OK

[Forced Hardware]

Device	PNP Device ID
No Forced Hardware	

[I/O]

Address Range	Device	Status
0x0000-0x03AF	PCI bus	OK

0x0000-0x03AF	Direct memory access controller	OK
0x03B0-0x03DF	PCI bus	OK
0x03B0-0x03DF	ATI Technologies Inc. RAGE XL PCI	OK
0x03E0-0x0CF7	PCI bus	OK
0x0D00-0x0FFF	PCI bus	OK
0xE000-0xEFFF	PCI bus	OK
0xE800-0xE8FF	ATI Technologies Inc. RAGE XL PCI	OK
0x03C0-0x03DF	ATI Technologies Inc. RAGE XL PCI	OK
0x0A79-0x0A79	ISAPNP Read Data Port	OK
0x0279-0x0279	ISAPNP Read Data Port	OK
0x02F4-0x02F7	ISAPNP Read Data Port	OK
0x0092-0x0092	Motherboard resources	OK
0x04D0-0x04D1	Motherboard resources	OK
0x0010-0x001F	Motherboard resources	OK
0x040B-0x040B	Motherboard resources	OK
0x04D6-0x04D6	Motherboard resources	OK
0x0C06-0x0C07	Motherboard resources	OK
0x0C14-0x0C14	Motherboard resources	OK
0x0C49-0x0C49	Motherboard resources	OK
0x0C4A-0x0C4A	Motherboard resources	OK
0x0C50-0x0C51	Motherboard resources	OK
0x0C52-0x0C52	Motherboard resources	OK
0x0C6C-0x0C6C	Motherboard resources	OK
0x0C6F-0x0C6F	Motherboard resources	OK
0x0F50-0x0F57	Motherboard resources	OK
0x0C00-0x0C01	Motherboard resources	OK
0x0C98-0x0C98	Motherboard resources	OK
0x0CA3-0x0CA3	Motherboard resources	OK
0x0CD6-0x0CD7	Motherboard resources	OK
0x002E-0x002F	Motherboard resources	OK
0x0530-0x0531	Motherboard resources	OK
0x0400-0x041F	Motherboard resources	OK
0x0440-0x044F	Motherboard resources	OK
0x0480-0x049F	Motherboard resources	OK
0x04C0-0x04DF	Motherboard resources	OK
0x0500-0x051F	Motherboard resources	OK
0x0540-0x055F	Motherboard resources	OK
0x0560-0x057F	Motherboard resources	OK
0x0580-0x058F	Motherboard resources	OK
0x0590-0x0593	Motherboard resources	OK
0x0020-0x0021	Programmable interrupt controller	OK
0x00A0-0x00A1	Programmable interrupt controller	OK
0x0080-0x008F	Direct memory access controller	OK
0x00C0-0x00DF	Direct memory access controller	OK
0x0040-0x0043	System timer	OK
0x0070-0x0073	System CMOS/real time clock	OK
0x0061-0x006F	System speaker	OK
0x00F0-0x00FF	Numeric data processor	OK
0x0060-0x0060	Standard 101/102-Key or Microsoft	OK
Natural PS/2 Keyboard		OK
0x0064-0x0064	Standard 101/102-Key or Microsoft	OK
Natural PS/2 Keyboard		OK
0x03F8-0x03FF	Communications Port (COM1)	OK
0xEFF0-0xEFFF	Standard Dual Channel PCI IDE Controller	OK

```

0x01F0-0x01F7 Primary IDE Channel OK
0x03F6-0x03F6 Primary IDE Channel OK
0x0170-0x0177 Secondary IDE Channel OK
0x0376-0x0376 Secondary IDE Channel OK

```

[IRQs]

```

IRQ Number Device
9 Microsoft ACPI-Compliant System
8 System CMOS/real time clock
13 Numeric data processor
12 Microsoft PS/2 Mouse
1 Standard 101/102-Key or Microsoft Natural
PS/2 Keyboard
4 Communications Port (COM1)
14 Primary IDE Channel
10 Standard OpenHCD USB Host Controller
19 Broadcom 570x Gigabit Integrated Controller
18 Broadcom 570x Gigabit Integrated Controller
#2

```

[Memory]

```

Range Device Status
0x0000-0x9FFFF System board OK
0xE0000-0xFFFFF System board OK
0x100000-0x3FFFFFFF System board OK
0xFFFF8000-0xFFFFFFF System board OK
0xA0000-0xBFFFF PCI bus OK
0xA0000-0xBFFFF ATI Technologies Inc. RAGE XL PCI
OK
0x40000000-0xFC5FFFFFF PCI bus OK
0xFC600000-0xFC6FFFFFF PCI bus OK
0xFC900000-0xFE9FFFFFF PCI bus OK
0xFD000000-0xFDFFFFFFF ATI Technologies Inc.
RAGE XL PCI OK
0xFE9FF000-0xFE9FFFFFFF ATI Technologies Inc.
RAGE XL PCI OK
0xFE9FE000-0xFE9FEFFF Standard OpenHCD USB
Host Controller OK
0xFC700000-0xFC7FFFFFF PCI bus OK
0xFEAA0000-0xFEAFFFFF PCI bus OK
0xFC800000-0xFC8FFFFFF PCI bus OK
0xFEB00000-0xFEBFFFFFFF PCI bus OK
0xFEBC0000-0xFEBCFFFF Broadcom 570x Gigabit
Integrated Controller OK
0xFEBB0000-0xFEBBFFFF Broadcom 570x Gigabit
Integrated Controller OK
0xFEBF0000-0xFEBFFFFF Broadcom 570x Gigabit
Integrated Controller #2 OK
0xFEBE0000-0xFEBEFFFF Broadcom 570x Gigabit
Integrated Controller #2 OK

```

[Components]

[Following are sub-categories of this main category]

[Multimedia]

[Following are sub-categories of this main category]

[Audio Codecs]

```

Codec Manufacturer Description
Status File Version Size
Creation Date
c:\winnt\system32\msg723.acm Microsoft Corporation
OK
C:\WINNT\System32\MSG723.ACM 4.4.3385
106.77 KB (109,328 bytes) 2/17/2004
2:32:52 PM
c:\winnt\system32\iac25_32.ax Intel Corporation
Indeo® audio software OK
C:\WINNT\System32\IAC25_32.AX 2.05.53
195.00 KB (199,680 bytes) 12/31/1979
6:00:00 PM
c:\winnt\system32\msgsm32.acm Microsoft Corporation
OK
C:\WINNT\System32\MSGSM32.ACM 5.00.2134.1
22.27 KB (22,800 bytes) 12/31/1979
6:00:00 PM
c:\winnt\system32\tssoft32.acm DSP GROUP,
INC. OK
C:\WINNT\System32\TSSOFT32.ACM
1.01 9.27 KB (9,488 bytes)
12/31/1979 6:00:00 PM
c:\winnt\system32\msadp32.acm Microsoft Corporation
OK
C:\WINNT\System32\MSADP32.ACM 5.00.2134.1
14.77 KB (15,120 bytes) 12/31/1979
6:00:00 PM
c:\winnt\system32\imaadp32.acm Microsoft
Corporation OK
C:\WINNT\System32\IMADP32.ACM
5.00.2134.1 16.27 KB (16,656 bytes)
12/31/1979 6:00:00 PM
c:\winnt\system32\msg711.acm Microsoft Corporation
OK
C:\WINNT\System32\MSG711.ACM 5.00.2134.1
10.27 KB (10,512 bytes) 12/31/1979
6:00:00 PM
c:\winnt\system32\lhacm.acm Microsoft Corporation
OK
C:\WINNT\System32\LHACM.ACM 4.4.3385
33.27 KB (34,064 bytes) 2/17/2004
2:32:52 PM
[Video Codecs]
Codec Manufacturer Description
Status File Version Size
Creation Date
c:\winnt\system32\ir50_32.dll Intel Corporation
Indeo® video 5.10 OK
C:\WINNT\System32\IR50_32.DLL
R.5.10.15.2.55 737.50 KB (755,200
bytes) 12/31/1979 6:00:00 PM
c:\winnt\system32\msh261.drv Microsoft Corporation
OK
C:\WINNT\System32\MSH261.DRV 4.4.3385
163.77 KB (167,696 bytes) 2/17/2004
2:32:52 PM
c:\winnt\system32\msh263.drv Microsoft Corporation
OK

```

```

C:\WINNT\System32\MSH263.DRV 4.4.3385
252.27 KB (258,320 bytes) 2/17/2004
2:32:43 PM
c:\winnt\system32\ir32_32.dll Intel(R) Corporation
OK
C:\WINNT\System32\IR32_32.DLL Not Available
194.50 KB (199,168 bytes) 12/31/1979
6:00:00 PM
c:\winnt\system32\msrle32.dll Microsoft Corporation
OK
C:\WINNT\System32\MSRLE32.DLL 5.00.2134.1
10.77 KB (11,024 bytes) 12/31/1979
6:00:00 PM
c:\winnt\system32\msvidc32.dll Microsoft
Corporation OK
C:\WINNT\System32\MSVIDC32.DLL
5.00.2134.1 27.27 KB (27,920 bytes)
12/31/1979 6:00:00 PM
c:\winnt\system32\iccvd.dll Radius Inc.
OK
C:\WINNT\System32\ICCVID.DLL
1.10.0.6 108.00 KB (110,592 bytes)
12/31/1979 6:00:00 PM

```

[CD-ROM]

```

Item Value
No CD-ROM drives

```

[Sound Device]

```

Item Value
No sound devices

```

[Display]

```

Item Value
Name ATI Technologies Inc. RAGE XL PCI
PNP Device ID
PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_2
7\3&267A616A&0&18
Adapter Type ATI RAGE XL PCI, ATI Technologies
Inc. compatible
Adapter Description ATI Technologies Inc. RAGE XL PCI
Adapter RAM 8.00 MB (8,388,608 bytes)
Installed Drivers atidrab.dll
Driver Version 5.00.2179.1
INF File display.inf (atirage3 section)
Color Planes 1
Color Table Entries 65536
Resolution 1024 x 768 x 75 hertz
Bits/Pixel 16

```

[Infrared]

```

Item Value
No infrared devices

```

[Input]

[Following are sub-categories of this main category]

[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&39D9D85A&0
NumberOfFunctionKeys    12
    
```

[Pointing Device]

```

Item      Value
Hardware Type      Microsoft PS/2 Mouse
Number of Buttons  5
Status           OK
PNP Device ID      ACPI\PNP0F03\4&39D9D85A&0
Power Management Supported    False
Double Click Threshold    6
Handedness        Right Handed Operation
    
```

[Modem]

```

Item      Value
No modems
    
```

[Network]

[Following are sub-categories of this main category]

[Adapter]

```

Item      Value
Name      [00000000] RAS Async Adapter
Adapter Type      Not Available
Product Name      RAS Async Adapter
Installed True
PNP Device ID      Not Available
Last Reset        2/23/2004 12:00:23 PM
Index            0
Service Name      AsyncMac
IP Address        Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled      False
DHCP Server       Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address       Not Available
Service Name      Not Available
    
```

```

Name      [00000001] WAN Miniport (L2TP)
Adapter Type      Not Available
Product Name      WAN Miniport (L2TP)
Installed True
PNP Device ID      ROOT\MS_L2TPMINIPORT\0000
Last Reset        2/23/2004 12:00:23 PM
Index            1
Service Name      Rasl2tp
IP Address        Not Available
    
```

```

IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled      False
DHCP Server       Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address       Not Available
Service Name      Rasl2tp
Driver           c:\winnt\system32\drivers\rasl2tp.sys
(50800, 5.00.2179.1)
    
```

```

Name      [00000002] WAN Miniport (PPTP)
Adapter Type      Wide Area Network (WAN)
Product Name      WAN Miniport (PPTP)
Installed True
PNP Device ID      ROOT\MS_PPTPMINIPORT\0000
Last Reset        2/23/2004 12:00:23 PM
Index            2
Service Name      PptpMiniport
IP Address        Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled      False
DHCP Server       Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address       50:50:54:50:30:30
Service Name      PptpMiniport
Driver           c:\winnt\system32\drivers\raspptp.sys
(47856, 5.00.2160.1)
    
```

```

Name      [00000003] Direct Parallel
Adapter Type      Not Available
Product Name      Direct Parallel
Installed True
PNP Device ID      ROOT\MS_PTMINIPORT\0000
Last Reset        2/23/2004 12:00:23 PM
Index            3
Service Name      Raspti
IP Address        Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled      False
DHCP Server       Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address       Not Available
Service Name      Raspti
Driver           c:\winnt\system32\drivers\raspti.sys
(16880, 5.00.2146.1)
    
```

```

Name      [00000004] WAN Miniport (IP)
Adapter Type      Not Available
Product Name      WAN Miniport (IP)
Installed True
PNP Device ID      ROOT\MS_NDISWANIP\0000
Last Reset        2/23/2004 12:00:23 PM
Index            4
Service Name      NdisWan
IP Address        Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled      False
    
```

```

DHCP Server       Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address       Not Available
Service Name      NdisWan
Driver           c:\winnt\system32\drivers\ndiswan.sys
(90096, 5.00.2195.2779)
    
```

```

Name      [00000005] Broadcom 570x Gigabit Integrated
Controller
Adapter Type      Ethernet 802.3
Product Name      Broadcom 570x Gigabit Integrated
Controller
Installed True
PNP Device ID      PCI\VEN_14E4&DEV_1648&SUBSYS_164814E4&REV_0
2\3&1070020&0&00
Last Reset        2/23/2004 12:00:23 PM
Index            5
Service Name      b57w2k
IP Address        130.168.40.250
IP Subnet 255.255.0.0
Default IP Gateway Not Available
DHCP Enabled      False
DHCP Server       Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address       00:0E:7F:30:91:57
Service Name      b57w2k
IRQ Number       19
Driver           c:\winnt\system32\drivers\b57w2k.sys
(113090, 7.15.0.0)
    
```

```

Name      [00000006] Broadcom 570x Gigabit Integrated
Controller
Adapter Type      Ethernet 802.3
Product Name      Broadcom 570x Gigabit Integrated
Controller
Installed True
PNP Device ID      PCI\VEN_14E4&DEV_1648&SUBSYS_164814E4&REV_0
2\3&1070020&0&01
Last Reset        2/23/2004 12:00:23 PM
Index            6
Service Name      b57w2k
IP Address        Not Available
IP Subnet
Default IP Gateway Not Available
DHCP Enabled      False
DHCP Server       Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address       00:0E:7F:30:91:58
Service Name      b57w2k
IRQ Number       18
Driver           c:\winnt\system32\drivers\b57w2k.sys
(113090, 7.15.0.0)
    
```

[Protocol]

```

Item      Value
Name      MSAFD Tcpip [TCP/IP]
    
```

ConnectionlessService False
 GuaranteesDelivery True
 GuaranteesSequencing True
 MaximumAddressSize 16 bytes
 MaximumMessageSize 0 bytes
 MessageOriented False
 MinimumAddressSize 16 bytes
 PseudoStreamOriented False
 SupportsBroadcasting False
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData True
 SupportsGracefulClosing True
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD Tcpip [UDP/IP]
 ConnectionlessService True
 GuaranteesDelivery False
 GuaranteesSequencing False
 MaximumAddressSize 16 bytes
 MaximumMessageSize 65467 bytes
 MessageOriented True
 MinimumAddressSize 16 bytes
 PseudoStreamOriented False
 SupportsBroadcasting True
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting True

Name RSVP UDP Service Provider
 ConnectionlessService True
 GuaranteesDelivery False
 GuaranteesSequencing False
 MaximumAddressSize 16 bytes
 MaximumMessageSize 65467 bytes
 MessageOriented True
 MinimumAddressSize 16 bytes
 PseudoStreamOriented False
 SupportsBroadcasting True
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption True
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting True

Name RSVP TCP Service Provider
 ConnectionlessService False
 GuaranteesDelivery True
 GuaranteesSequencing True
 MaximumAddressSize 16 bytes
 MaximumMessageSize 0 bytes
 MessageOriented False
 MinimumAddressSize 16 bytes
 PseudoStreamOriented False
 SupportsBroadcasting False

SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption True
 SupportsExpeditedData True
 SupportsGracefulClosing True
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{80BC3100-6D1B-46BB-BD24-11D3BF1FDEDE}] SEQPACKET 3
 ConnectionlessService False
 GuaranteesDelivery True
 GuaranteesSequencing True
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting False
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{80BC3100-6D1B-46BB-BD24-11D3BF1FDEDE}] DATAGRAM 3
 ConnectionlessService True
 GuaranteesDelivery False
 GuaranteesSequencing False
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting True
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{7C5F47EF-38A5-48B9-AC05-C1ECAA1EB767}] SEQPACKET 0
 ConnectionlessService False
 GuaranteesDelivery True
 GuaranteesSequencing True
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting False
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False

SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{7C5F47EF-38A5-48B9-AC05-C1ECAA1EB767}] DATAGRAM 0
 ConnectionlessService True
 GuaranteesDelivery False
 GuaranteesSequencing False
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting True
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{286F2813-F3E2-49EC-BC38-474F25F2CFEB}] SEQPACKET 1
 ConnectionlessService False
 GuaranteesDelivery True
 GuaranteesSequencing True
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting False
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{286F2813-F3E2-49EC-BC38-474F25F2CFEB}] DATAGRAM 1
 ConnectionlessService True
 GuaranteesDelivery False
 GuaranteesSequencing False
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting True
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False

```

SupportsMulticasting      False

Name      MSAFD NetBIOS
[Device\NetBT_Tcpip_{6CAC6E91-8026-46E8-8F62-79853F99F05E}] SEQPACKET 2
ConnectionlessService      False
GuaranteesDelivery      True
GuaranteesSequencing      True
MaximumAddressSize      20 bytes
MaximumMessageSize      64000 bytes
MessageOriented      True
MinimumAddressSize      20 bytes
PseudoStreamOriented      False
SupportsBroadcasting      False
SupportsConnectData      False
SupportsDisconnectData      False
SupportsEncryption      False
SupportsExpeditedData      False
SupportsGracefulClosing      False
SupportsGuaranteedBandwidth      False
SupportsMulticasting      False

Name      MSAFD NetBIOS
[Device\NetBT_Tcpip_{6CAC6E91-8026-46E8-8F62-79853F99F05E}] DATAGRAM 2
ConnectionlessService      True
GuaranteesDelivery      False
GuaranteesSequencing      False
MaximumAddressSize      20 bytes
MaximumMessageSize      64000 bytes
MessageOriented      True
MinimumAddressSize      20 bytes
PseudoStreamOriented      False
SupportsBroadcasting      True
SupportsConnectData      False
SupportsDisconnectData      False
SupportsEncryption      False
SupportsExpeditedData      False
SupportsGracefulClosing      False
SupportsGuaranteedBandwidth      False
SupportsMulticasting      False

[WinSock]

Item      Value
File      c:\winnt\system32\winsock.dll
Version    3.10
Size      2.80 KB (2,864 bytes)

File      c:\winnt\system32\wsock32.dll
Version    5.00.2195.2871
Size      21.27 KB (21,776 bytes)

[Ports]

[ Following are sub-categories of this main category
]

[Serial]

Item      Value

```

```

Name      COM1
Status     OK
PNP Device ID      ACPI\PNP0501\1
Maximum Input Buffer Size      0
Maximum Output Buffer Size      False
Settable Baud Rate      True
Settable Data Bits      True
Settable Flow Control      True
Settable Parity      True
Settable Parity Check      True
Settable Stop Bits      True
Settable RLSL      True
Supports RLSL      True
Supports 16 Bit Mode      False
Supports Special Characters      False
Baud Rate      9600
Bits/Byte      8
Stop Bits      1
Parity      None
Busy      0
Abort Read/Write on Error      0
Binary Mode Enabled      -1
Continue Xmit on Xoff      0
CTS Outflow Control      0
Discard NULL Bytes      0
DSR Outflow Control      0
DSR Sensitivity      0
DTR Flow Control Type      Enable
EOF Character      0
Error Replace Character      0
Error Replacement Enabled      0
Event Character      0
Parity Check Enabled      0
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 Number      4
I/O Port      0x03F8-0x03FF
Driver      c:\winnt\system32\drivers\serial.sys
(62416, 5.00.2195.2780)

[Parallel]

Item      Value
No parallel port information

[Storage]

[ Following are sub-categories of this main category
]

[Drives]

Item      Value
Drive     C:
Description      Local Fixed Disk
Compressed      False
File System      NTFS

```

```

Size      74.52 GB (80,015,491,072 bytes)
Free Space      71.74 GB (77,030,159,360 bytes)
Volume Name
Volume Serial Number      E093CB8B
Partition Disk #0, Partition #0
Partition Size      74.52 GB (80,015,491,584 bytes)
Starting Offset      32256 bytes
Drive Description      Disk drive
Drive Manufacturer      (Standard disk drives)
Drive Model      Maxtor 6Y080L0
Drive BytesPerSector      512
Drive MediaLoaded      True
Drive MediaType      Fixed hard disk media
Drive Partitions      1
Drive SCSI Bus      0
Drive SCSI Logical Unit      0
Drive SCSI Port      0
Drive SCISITargetId      0
Drive SectorsPerTrack      63
Drive Size      80023749120 bytes
Drive TotalCylinders      9729
Drive TotalSectors      156296385
Drive TotalTracks      2480895
Drive TracksPerCylinder      255

[SCSI]

Item      Value
No SCSI information

[Printing]

Name      Port Name Server Name
No printing information

[Problem Devices]

Device      PNP Device ID      Error Code
No Problem Devices

[USB]

Device      PNP Device ID
Standard OpenHCD USB Host Controller
PCI\VEN_1166&DEV_0221&SUBSYS_02201166&REV_0
5\3&267A616A&0&7A
USB Root Hub      USB\ROOT_HUB\4&331E2EA4&0

[Software Environment]

[ Following are sub-categories of this main category
]

[Drivers]

Name      Description      File      Type
Started      Start Mode      State
Status      Error Control      Accept Pause
Accept Stop
abiosdsk      Abiosdsk      Not Available      Kernel Driver
False      Disabled      Stopped      OK
Ignore      False      False

```

abp480n5	abp480n5	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
acpi	Microsoft ACPI Driver		
	c:\winnt\system32\drivers\acpi.sys		
	Kernel Driver	True	Boot
	Running	OK	Normal
	True		False
acpiec	ACPIEC		
	c:\winnt\system32\drivers\acpiec.sys		
	Kernel Driver	False	Disabled
	Stopped	OK	Normal
	False		False
adpu160m	adpu160m	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
afd	AFD Networking Support Environment		
	c:\winnt\system32\drivers\afd.sys		
	Kernel Driver	True	Auto
	Running	OK	Normal
	True		False
ahal54x	Ahal54x	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
aic116x	aic116x	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
aic78u2	aic78u2	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
aic78xx	aic78xx	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
alkernel	Altiris Kernel Driver		
	c:\winnt\system32\drivers\alkernel.sys		
	Kernel Driver	True	Manual
	Running	OK	Normal
	True		False
ami0nt	ami0nt	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
amsint	amsint	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
asc	asc	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
asc3350p	asc3350p	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
asc3550	asc3550	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
asynccmac	RAS Asynchronous Media Driver		
	c:\winnt\system32\drivers\asynccmac.sys		
	Kernel Driver	False	Manual
	Stopped	OK	Normal
	False		False
atapi	Standard IDE/ESDI Hard Disk Controller		
	c:\winnt\system32\drivers\atapi.sys		
	Kernel Driver	True	Boot
	Running	OK	Normal
	True		False

atdisk	Atdisk	Not Available	Kernel Driver
	False	Disabled	Stopped
	Ignore	False	False
atirage3	atirage3		
	c:\winnt\system32\drivers\atimpab.sys		
	Kernel Driver	True	Manual
	Running	OK	Ignore
	True		False
atmarpc	ATM ARP Client Protocol		
	c:\winnt\system32\drivers\atmarpc.sys		
	Kernel Driver	False	Manual
	Stopped	OK	Normal
	False		False
audstub	Audio Stub Driver		
	c:\winnt\system32\drivers\audstub.sys		
	Kernel Driver	True	Manual
	Running	OK	Normal
	True		False
b57w2k	Broadcom 570x Gigabit Integrated Controller		
	c:\winnt\system32\drivers\b57w2k.sys		
	Kernel Driver	True	Manual
	Running	OK	Normal
	True		False
beep	Beep		
	c:\winnt\system32\drivers\beep.sys		
	Kernel Driver	True	System
	Running	OK	Normal
	True		False
buslogic	BusLogic	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
cd20xrnt	cd20xrnt	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
cdaudio	Cdaudio		
	c:\winnt\system32\drivers\cdaudio.sys		
	Kernel Driver	False	System
	Stopped	OK	Ignore
	False		False
cdfs	Cdfs		
	c:\winnt\system32\drivers\cdfs.sys		
	File System Driver	False	Disabled
	Stopped	OK	Normal
	False		False
cdrom	Cdrom		
	c:\winnt\system32\drivers\cdrom.sys		
	Kernel Driver	False	System
	Stopped	OK	Ignore
	False		False
changer	Changer	Not Available	Kernel Driver
	False	System	Stopped
	Ignore	False	False
cpqarray	Cpqarray	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
cpqarray2	cpqarray2	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
cpqfcalm	cpqfcalm	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False

cpqfws2e	cpqfws2e	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
dac960nt	dac960nt	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
deckzpsx	deckzpsx	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
dfsdriver	DfsDriver		
	c:\winnt\system32\drivers\dfs.sys		
	File System Driver	True	Boot
	Running	OK	Normal
	True		False
disk	Disk Driver		
	c:\winnt\system32\drivers\disk.sys		
	Kernel Driver	True	Boot
	Running	OK	Normal
	True		False
diskperf	Diskperf		
	c:\winnt\system32\drivers\diskperf.sys		
	Kernel Driver	True	Boot
	Running	OK	Normal
	True		False
dmboot	dmboot		
	c:\winnt\system32\drivers\dmboot.sys		
	Kernel Driver	False	Disabled
	Stopped	OK	Normal
	False		False
dmio	Logical Disk Manager Driver		
	c:\winnt\system32\drivers\dmio.sys		
	Kernel Driver	True	Boot
	Running	OK	Normal
	True		False
dmload	dmload		
	c:\winnt\system32\drivers\dmload.sys		
	Kernel Driver	True	Boot
	Running	OK	Normal
	True		False
efs	EFS		
	c:\winnt\system32\drivers\efs.sys		
	File System Driver	True	Disabled
	Running	OK	Normal
	True		False
fastfat	Fastfat		
	c:\winnt\system32\drivers\fastfat.sys		
	File System Driver	False	Disabled
	Stopped	OK	Normal
	False		False
fd16_700	Fd16_700	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False
fdc	Fdc		
	c:\winnt\system32\drivers\fdc.sys		
	Kernel Driver	False	System
	Stopped	OK	Ignore
	False		False
fips	Fips		
	c:\winnt\system32\drivers\fips.sys		
	Kernel Driver	True	Auto
	Running	OK	Normal
	True		False
fireport	fireport	Not Available	Kernel Driver
	False	Disabled	Stopped
	Normal	False	False

```

flashpnt flashpnt Not Available Kernel Driver
False Disabled Stopped OK
Normal False False
flpydisk Flpydisk
c:\winnt\system32\drivers\flpydisk.sys
Kernel Driver False System
Stopped OK Ignore False
ftdisk Volume Manager Driver
c:\winnt\system32\drivers\ftdisk.sys
Kernel Driver True Boot
Running OK Normal False
True
gpc Generic Packet Classifier
c:\winnt\system32\drivers\msgpc.sys
Kernel Driver True Manual
Running OK Normal False
True
i8042prt i8042 Keyboard and PS/2 Mouse Port Driver
c:\winnt\system32\drivers\i8042prt.sys
Kernel Driver True System
Running OK Normal False
True
ini910u ini910u Not Available Kernel Driver
False Disabled Stopped OK
Normal False False
intelide IntelIde Not Available Kernel Driver
False Disabled Stopped OK
Normal False False
ipfilterdriver IP Traffic Filter Driver
c:\winnt\system32\drivers\ipfldrv.sys
Kernel Driver False Manual
Stopped OK Normal False
False
ipinip IP in IP Tunnel Driver
c:\winnt\system32\drivers\ipinip.sys
Kernel Driver False Manual
Stopped OK Normal False
False
ipnat IP Network Address Translator
c:\winnt\system32\drivers\ipnat.sys
Kernel Driver False Manual
Stopped OK Normal False
False
ipsec IPSEC driver
c:\winnt\system32\drivers\ipsec.sys
Kernel Driver True Manual
Running OK Normal False
True
ipsraidn ipsraidn Not Available Kernel Driver
False Disabled Stopped OK
Normal False False
isapnp PnP ISA/EISA Bus Driver
c:\winnt\system32\drivers\isapnp.sys
Kernel Driver True Boot
Running OK Critical False
True
kbdclass Keyboard Class Driver
c:\winnt\system32\drivers\kbdclass.sys
Kernel Driver True System
Running OK Normal False
True

```

```

ksecdd KSecDD
c:\winnt\system32\drivers\ksecdd.sys
Kernel Driver True Boot
Running OK Normal False
True
lbrtfdc lbrtfdc Not Available Kernel Driver
False System Stopped OK
Ignore False False
lp6nds35 lp6nds35 Not Available Kernel Driver
False Disabled Stopped OK
Normal False False
mmdd mmdd
c:\winnt\system32\drivers\mmdd.sys
Kernel Driver True System
Running OK Ignore False
True
modem Modem
c:\winnt\system32\drivers\modem.sys
Kernel Driver False Manual
Stopped OK Ignore False
False
mouclass Mouse Class Driver
c:\winnt\system32\drivers\mouclass.sys
Kernel Driver True System
Running OK Normal False
True
mountmgr MountMgr
c:\winnt\system32\drivers\mountmgr.sys
Kernel Driver True Boot
Running OK Normal False
True
mraid35x mraid35x Not Available Kernel Driver
False Disabled Stopped OK
Normal False False
mrx smb MRXSMB
c:\winnt\system32\drivers\mrx smb.sys
File System Driver True System
Running OK Normal False
True
msfs Msfs
c:\winnt\system32\drivers\msfs.sys
File System Driver True System
Running OK Normal False
True
mskssrv Microsoft Streaming Service Proxy
c:\winnt\system32\drivers\mskssrv.sys
Kernel Driver False Manual
Stopped OK Normal False
False
mspclock Microsoft Streaming Clock Proxy
c:\winnt\system32\drivers\mspclock.sys
Kernel Driver False Manual
Stopped OK Normal False
False
mspqm Microsoft Streaming Quality Manager Proxy
c:\winnt\system32\drivers\mspqm.sys
Kernel Driver False Manual
Stopped OK Normal False
False
mup Mup c:\winnt\system32\drivers\mup.sys
File System Driver True Boot
Running OK Normal False
True

```

```

ncrc710 Ncrc710 Not Available Kernel Driver
False Disabled Stopped OK
Normal False False
ndis NDIS System Driver
c:\winnt\system32\drivers\ndis.sys
Kernel Driver True Boot
Running OK Normal False
True
ndistapi Remote Access NDIS TAPI Driver
c:\winnt\system32\drivers\ndistapi.sys
Kernel Driver True Manual
Running OK Normal False
True
ndiswan Remote Access NDIS WAN Driver
c:\winnt\system32\drivers\ndiswan.sys
Kernel Driver True Manual
Running OK Normal False
True
ndproxy NDIS Proxy
c:\winnt\system32\drivers\ndproxy.sys
Kernel Driver True Manual
Running OK Normal False
True
netbios NetBIOS Interface
c:\winnt\system32\drivers\netbios.sys
File System Driver True System
Running OK Normal False
True
netbt NetBios over Tcpip
c:\winnt\system32\drivers\netbt.sys
Kernel Driver True System
Running OK Normal False
True
netdetect NetDetect
c:\winnt\system32\drivers\netdetect.sys
Kernel Driver False Manual
Stopped OK Normal False
False
npfs Npfs
c:\winnt\system32\drivers\npfs.sys
File System Driver True System
Running OK Normal False
True
ntfs Ntfs
c:\winnt\system32\drivers\ntfs.sys
File System Driver True Disabled
Running OK Normal False
True
null Null
c:\winnt\system32\drivers\null.sys
Kernel Driver True System
Running OK Normal False
True
nwlkflt IPX Traffic Filter Driver
c:\winnt\system32\drivers\nwlkflt.sys
Kernel Driver False Manual
Stopped OK Normal False
False
nwlkfwfwd IPX Traffic Forwarder Driver
c:\winnt\system32\drivers\nwlkfwfwd.sys
Kernel Driver False Manual
Stopped OK Normal False
False

```

openhci	Microsoft USB Open Host Controller Driver c:\winnt\system32\drivers\openhci.sys Kernel Driver True Manual Running OK Normal False True		Running OK Normal False True			simbad	Simbad Not Available Kernel Driver False Disabled Stopped OK Normal False False
paralle1	Parallel c:\winnt\system32\drivers\parallel.sys Kernel Driver False Auto Stopped OK Ignore False False	q11080	q11080 Not Available Kernel Driver False Disabled Stopped OK Normal False False	q110wnt	q110wnt Not Available Kernel Driver False Disabled Stopped OK Normal False False	sparrow	Sparrow Not Available Kernel Driver False Disabled Stopped OK Normal False False
parport	Parport c:\winnt\system32\drivers\parport.sys Kernel Driver False Auto Stopped OK Ignore False False	q11240	q11240 Not Available Kernel Driver False Disabled Stopped OK Normal False False	q12100	q12100 Not Available Kernel Driver False Disabled Stopped OK Normal False False	spud	Special Purpose Utility Driver c:\winnt\system32\drivers\spud.sys Kernel Driver True Manual Running OK Normal False True
partmgr	PartMgr c:\winnt\system32\drivers\partmgr.sys Kernel Driver True Boot Running OK Normal False True	rasacd	Remote Access Auto Connection Driver c:\winnt\system32\drivers\rasacd.sys Kernel Driver True System Running OK Normal False True	rasl2tp	WAN Miniport (L2TP) c:\winnt\system32\drivers\rasl2tp.sys Kernel Driver True Manual Running OK Normal False True	srv	Srv c:\winnt\system32\drivers\srv.sys File System Driver True Manual Running OK Normal False True
parvdm	ParVdm c:\winnt\system32\drivers\parvdm.sys Kernel Driver False Auto Stopped OK Ignore False False	raspti	Direct Parallel c:\winnt\system32\drivers\raspti.sys Kernel Driver True Manual Running OK Normal False True	rca	Microsoft Streaming Network Raw Channel Access c:\winnt\system32\drivers\rca.sys Kernel Driver False Manual Stopped OK Normal False False	swenum	Software Bus Driver c:\winnt\system32\drivers\swenum.sys Kernel Driver True Manual Running OK Normal False True
pci	PCI Bus Driver c:\winnt\system32\drivers\pci.sys Kernel Driver True Boot Running OK Critical False True	rdbss	Rdbss c:\winnt\system32\drivers\rdbss.sys File System Driver True System Running OK Normal False True	rca	Microsoft Streaming Network Raw Channel Access c:\winnt\system32\drivers\rca.sys Kernel Driver False Manual Stopped OK Normal False False	symc810	symc810 Not Available Kernel Driver False Disabled Stopped OK Normal False False
pcidump	PCIDump Not Available Kernel Driver False System Stopped OK Ignore False False	rdpwd	RDPWD c:\winnt\system32\drivers\rdpwd.sys Kernel Driver False Manual Stopped OK Ignore False False	raspti	Direct Parallel c:\winnt\system32\drivers\raspti.sys Kernel Driver True Manual Running OK Normal False True	symc8xx	symc8xx Not Available Kernel Driver False Disabled Stopped OK Normal False False
pciide	PCIIde c:\winnt\system32\drivers\pciide.sys Kernel Driver True Boot Running OK Normal False True	serenum	Serenum Filter Driver c:\winnt\system32\drivers\serenum.sys Kernel Driver True Manual Running OK Normal False True	rca	Microsoft Streaming Network Raw Channel Access c:\winnt\system32\drivers\rca.sys Kernel Driver False Manual Stopped OK Normal False False	sym_hi	sym_hi Not Available Kernel Driver False Disabled Stopped OK Normal False False
pcmcia	Pcmcia c:\winnt\system32\drivers\pcmcia.sys Kernel Driver False Disabled Stopped OK Normal False False	serial	Serial port driver c:\winnt\system32\drivers\serial.sys Kernel Driver True System Running OK Ignore False True	rdbss	Rdbss c:\winnt\system32\drivers\rdbss.sys File System Driver True System Running OK Normal False True	tcpip	TCP/IP Protocol Driver c:\winnt\system32\drivers\tcpip.sys Kernel Driver True System Running OK Normal False True
pdcomp	PDCOMP Not Available Kernel Driver False Manual Stopped OK Ignore False False	sfloppy	High-Capacity Floppy Disk Drive c:\winnt\system32\drivers\sfloppy.sys Kernel Driver False Manual Stopped OK Normal False False	rdpwd	RDPWD c:\winnt\system32\drivers\rdpwd.sys Kernel Driver False Manual Stopped OK Ignore False False	tdasync	TDASync c:\winnt\system32\drivers\tdasync.sys Kernel Driver False Manual Stopped OK Ignore False False
pdframe	PDFRAME Not Available Kernel Driver False Manual Stopped OK Ignore False False	sglfb	sglfb Not Available Kernel Driver False System Stopped OK Normal False False	serenum	Serenum Filter Driver c:\winnt\system32\drivers\serenum.sys Kernel Driver True Manual Running OK Normal False True	tdipx	TDIPX c:\winnt\system32\drivers\tdipx.sys Kernel Driver False Manual Stopped OK Ignore False False
pdreli	PDRELI Not Available Kernel Driver False Manual Stopped OK Ignore False False	ptilink	Direct Parallel Link Driver c:\winnt\system32\drivers\ptilink.sys Kernel Driver True Manual	serial	Serial port driver c:\winnt\system32\drivers\serial.sys Kernel Driver True System Running OK Ignore False True	tdnetb	TDNETB c:\winnt\system32\drivers\tdnetb.sys Kernel Driver False Manual Stopped OK Ignore False False
pdrframe	PDRFRAME Not Available Kernel Driver False Manual Stopped OK Ignore False False			sfloppy	High-Capacity Floppy Disk Drive c:\winnt\system32\drivers\sfloppy.sys Kernel Driver False Manual Stopped OK Normal False False	tdpipe	TDPIPE c:\winnt\system32\drivers\tdpipe.sys Kernel Driver False Manual Stopped OK Ignore False False
pptpminiport	WAN Miniport (PPTP) c:\winnt\system32\drivers\rasppptp.sys Kernel Driver True Manual Running OK Normal False True			sglfb	sglfb Not Available Kernel Driver False System Stopped OK Normal False False	tdspix	TDSPX c:\winnt\system32\drivers\tdspix.sys Kernel Driver False Manual Stopped OK Ignore False False
ptilink	Direct Parallel Link Driver c:\winnt\system32\drivers\ptilink.sys Kernel Driver True Manual					tdtcp	TDTCP c:\winnt\system32\drivers\tdtcp.sys Kernel Driver False Manual


```

Stopped OK Ignore False
False
termdd Terminal Device Driver
c:\winnt\system32\drivers\termdd.sys
Kernel Driver False Disabled
Stopped OK Normal False
False
tga tga Not Available Kernel Driver
False System Stopped OK
Ignore False False
udfs Udfs
c:\winnt\system32\drivers\udfs.sys
File System Driver False Disabled
Stopped OK Normal False
False
ultra66 ultra66 Not Available Kernel Driver
False Disabled Stopped OK
Normal False False
update Microcode Update Driver
c:\winnt\system32\drivers\update.sys
Kernel Driver True Manual
Running OK Normal False
True
usbhub Microsoft USB Standard Hub Driver
c:\winnt\system32\drivers\usbhub.sys
Kernel Driver True Manual
Running OK Normal False
True
usbstor USB Mass Storage Driver
c:\winnt\system32\drivers\usbstor.sys
Kernel Driver False Manual
Stopped OK Normal False
False
vgasave VgaSave c:\winnt\system32\drivers\vga.sys
Kernel Driver True System
Running OK Ignore False
True
wanarp Remote Access IP ARP Driver
c:\winnt\system32\drivers\wanarp.sys
Kernel Driver True Manual
Running OK Normal False
True
wdica WDICA Not Available Kernel Driver
False Manual Stopped OK
Ignore False False

[Environment Variables]

Variable Value User Name
ComSpec %SystemRoot%\system32\cmd.exe <SYSTEM>
Os2LibPath %SystemRoot%\system32\os2\dll;
<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 9, GenuineIntel <SYSTEM>
PROCESSOR_REVISION 0209 <SYSTEM>

```

```

NUMBER_OF_PROCESSORS 2 <SYSTEM>
PATHEXH .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF
;.WSH <SYSTEM>
TEMP %SystemRoot%\TEMP <SYSTEM>
TMP %SystemRoot%\TEMP <SYSTEM>
TEMP %USERPROFILE%\Local Settings\Temp
CL250\Administrator
TMP %USERPROFILE%\Local Settings\Temp
CL250\Administrator

[Jobs]

[ Following are sub-categories of this main category ]

[Print]

Document Size Owner Notify Status
Time Submitted Start Time
Until Time Elapsed Time
Pages Printed Job ID Priority
Parameters Driver Name
Print Processor Host Print Queue
Data Type Name
Unknown Unknown Unknown Unknown
Unknown Unknown Unknown Unknown
Unknown Unknown Unknown Unknown
Unknown Unknown Unknown Unknown

[Network Connections]

Local Name Remote Name Type
Status User Name
No network connections information

[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 Unknown Unknown Unknown
system Not Available 8 8 0
1413120 Not Available Unknown
Unknown Unknown
smss.exe c:\winnt\system32\smss.exe 168 11
204800 1413120 2/23/2004 6:00:34 PM
5.00.2195.2901 44.27 KB (45,328 bytes)
12/31/1979 6:00:00 PM
csrss.exe Not Available 192 13 Not
Available Not Available 2/23/2004 6:00:41 PM
Unknown Unknown Unknown
winlogon.exe c:\winnt\system32\winlogon.exe
188 13 204800 1413120
2/23/2004 6:00:42 PM
5.00.2195.2953 173.77 KB (177,936
bytes) 12/31/1979 6:00:00 PM
services.exe c:\winnt\system32\services.exe
240 9 204800 1413120

```

```

2/23/2004 6:00:43 PM
5.00.2195.2780 86.77 KB (88,848 bytes)
12/31/1979 6:00:00 PM
lsass.exe c:\winnt\system32\lsass.exe 252 9
204800 1413120 2/23/2004 6:00:43 PM
5.00.2195.2964 32.77 KB (33,552 bytes)
12/31/1979 6:00:00 PM
svchost.exe c:\winnt\system32\svchost.exe 440
8 204800 1413120 2/23/2004
6:00:47 PM 5.00.2134.1 7.77 KB
(7,952 bytes) 12/31/1979 6:00:00 PM
msdtc.exe c:\winnt\system32\msdtc.exe 468 8
204800 1413120 2/23/2004 6:00:47 PM
1999.9.3421.3 6.77 KB (6,928 bytes)
2/17/2004 8:30:04 AM
aclient.exe c:\altiris\aclient\aclient.exe
596 8 204800 1413120
2/23/2004 6:00:49 PM 5.6.124
3.83 MB (4,018,252 bytes) 6/25/2003
11:06:00 PM
svchost.exe c:\winnt\system32\svchost.exe 620
204800 1413120 2/23/2004
6:00:51 PM 5.00.2134.1 7.77 KB
(7,952 bytes) 12/31/1979 6:00:00 PM
llssrv.exe c:\winnt\system32\llssrv.exe 640
204800 1413120 2/23/2004
6:00:52 PM 5.00.2195.2649 114.27 KB
(117,008 bytes) 5/4/2001 1:05:02 PM
regsvc.exe c:\winnt\system32\regsvc.exe 688
8 204800 1413120 2/23/2004
6:00:52 PM 5.00.2195.2104 65.27 KB
(66,832 bytes) 2/17/2004 3:08:28 PM
mstask.exe c:\winnt\system32\mstask.exe 712
8 204800 1413120 2/23/2004
6:00:53 PM 4.71.2195.1 115.27 KB
(118,032 bytes) 2/17/2004 3:08:27 PM
winmgmt.exe c:\winnt\system32\wbem\winmgmt.exe 800
8 204800 1413120 2/23/2004
6:00:56 PM 1.50.1085.0029 192.08 KB
(196,685 bytes) 2/17/2004 3:08:32 PM
inetinfo.exe c:\winnt\system32\inetrv\inetinfo.exe 836
8 204800 1413120 2/23/2004
6:00:57 PM 5.00.0984 14.27 KB (14,608 bytes)
2/17/2004 3:08:57 PM
dfssvc.exe c:\winnt\system32\dfssvc.exe 880
8 204800 1413120 2/23/2004
6:00:58 PM 5.00.2195.2841 88.27 KB
(90,384 bytes) 2/17/2004 3:08:23 PM
explorer.exe c:\winnt\explorer.exe
1076 8 204800 1413120
2/23/2004 6:01:44 PM
5.00.3315.2846 237.27 KB (242,960
bytes) 2/17/2004 3:08:31 PM
aclntusr.exe c:\altiris\aclient\aclntusr.exe
1028 8 204800 1413120
2/23/2004 6:01:45 PM 5, 6, 0, 50
176.00 KB (180,224 bytes) 2/17/2004
2:34:26 PM
mdm.exe c:\winnt\system32\mdm.exe 1116 8
204800 1413120 2/23/2004 6:01:47 PM

```

```

6.00.8424 121.29 KB (124,200 bytes)
2/17/2004 8:30:53 AM
mmc.exe c:\winnt\system32\mmc.exe 496 8
204800 1413120 2/23/2004 6:03:40 PM
5.00.2195.2301 589.27 KB (603,408
bytes) 2/17/2004 3:08:24 PM
rsvp.exe c:\winnt\system32\rsvp.exe 1248 8
204800 1413120 2/23/2004 6:04:22 PM
5.00.2167.1 172.77 KB (176,912
bytes) 12/31/1979 6:00:00 PM

[Loaded Modules]

Name Version Size File Date Manufacturer
Path
traffic.dll 5.00.2139.1 30.77 KB
(31,504 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\traffic.dll
rsvp.exe 5.00.2167.1 172.77 KB (176,912
bytes) 12/31/1979 6:00:00 PM Microsoft
Corporation c:\winnt\system32\rsvp.exe
wbemprox.dll 1.50.1085.0045 40.08 KB
(41,040 bytes) 2/17/2004 3:08:32 PM
Microsoft Corporation
c:\winnt\system32\wbem\wbemprox.dll
cabinet.dll 5.00.2147.1 54.77 KB
(56,080 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\cabinet.dll
msinfo32.dll 5.00.2177.1 312.27 KB
(319,760 bytes) 2/17/2004 2:32:51 PM
Microsoft Corporation c:\program
files\common files\microsoft
shared\msinfo\msinfo32.dll
mmcndmgr.dll 5.00.2178.1 815.27 KB
(834,832 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\mmcndmgr.dll
mmc.exe 5.00.2195.2301 589.27 KB (603,408
bytes) 2/17/2004 3:08:24 PM Microsoft
Corporation c:\winnt\system32\mmc.exe
mdm.exe 6.00.8424 121.29 KB (124,200 bytes)
2/17/2004 8:30:53 AM Microsoft
Corporation c:\winnt\system32\mdm.exe
aclntusr.exe 5, 6, 0, 50 176.00 KB
(180,224 bytes) 2/17/2004 2:34:26 PM
c:\altiris\aclnt\aclntusr.exe
usp10.dll 1.0325.2195.2104 308.27 KB (315,664
bytes) 2/17/2004 3:08:30 PM Microsoft
Corporation c:\winnt\system32\usp10.dll
faxshell.dll 5.00.2134.1 8.27 KB
(8,464 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\faxshell.dll
msacm32.dll 5.00.2134.1 65.27 KB
(66,832 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\msacm32.dll
avifil32.dll 5.00.2134.1 76.27 KB
(78,096 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\avifil32.dll

```

```

msvfw32.dll 5.00.2134.1 113.77 KB
(116,496 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\msvfw32.dll
docprop2.dll 5.00.2178.1 297.77 KB
(304,912 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\docprop2.dll
mshtml.dll 5.00.3315.2870 227.27 KB
(232,720 bytes) 2/17/2004 3:08:26 PM
Microsoft Corporation
c:\winnt\system32\mshtml.dll
imgutil.dll 5.00.3315.2870 30.77 KB
(31,504 bytes) 2/17/2004 3:08:24 PM
Microsoft Corporation
c:\winnt\system32\imgutil.dll
webvw.dll 5.00.2920.0000 1.06 MB (1,115,408
bytes) 12/31/1979 6:00:00 PM Microsoft
Corporation c:\winnt\system32\webvw.dll
imm32.dll 5.00.2195.2821 94.27 KB (96,528 bytes)
2/17/2004 3:08:24 PM Microsoft
Corporation c:\winnt\system32\imm32.dll
msls31.dll 3.10.337.0 145.27 KB
(148,752 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\msls31.dll
msdbg.dll 6.00.8424 67.50 KB (69,120 bytes)
2/17/2004 8:30:53 AM Microsoft
Corporation c:\winnt\system32\msdbg.dll
shdoclc.dll 5.00.3315.2879 324.50 KB
(332,288 bytes) 2/17/2004 3:08:29 PM
Microsoft Corporation
c:\winnt\system32\shdoclc.dll
pdm.dll 6.00.8424 179.27 KB (183,574 bytes)
2/17/2004 8:30:53 AM Microsoft
Corporation c:\winnt\system32\pdm.dll
mshtml.dll 5.00.3315.2870 2.24 MB
(2,345,232 bytes) 2/17/2004 3:08:26 PM
Microsoft Corporation
c:\winnt\system32\mshtml.dll
mlang.dll 5.00.3103.1000 510.77 KB (523,024
bytes) 2/17/2004 3:08:24 PM Microsoft
Corporation c:\winnt\system32\mlang.dll
urlmon.dll 5.00.3315.1000 441.27 KB
(451,856 bytes) 2/17/2004 3:08:30 PM
Microsoft Corporation
c:\winnt\system32\urlmon.dll
linkinfo.dll 5.00.2134.1 15.77 KB
(16,144 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\linkinfo.dll
browseui.dll 5.00.3315.2846 34.50 KB
(35,328 bytes) 2/17/2004 3:08:22 PM
Microsoft Corporation
c:\winnt\system32\browseui.dll
powrprof.dll 5.00.3103.1000 13.27 KB
(13,584 bytes) 2/17/2004 3:08:28 PM
Microsoft Corporation
c:\winnt\system32\powrprof.dll
batmeter.dll 5.00.3103.1000 20.27 KB
(20,752 bytes) 2/17/2004 3:08:22 PM
Microsoft Corporation
c:\winnt\system32\batmeter.dll

```

```

stobject.dll 5.00.2195.2780 79.27 KB
(81,168 bytes) 2/17/2004 3:08:29 PM
Microsoft Corporation
c:\winnt\system32\stobject.dll
msi.dll 1.11.2405.0 1.69 MB (1,767,184
bytes) 2/17/2004 3:08:26 PM Microsoft
Corporation c:\winnt\system32\msi.dll
webcheck.dll 5.00.3315.1000 251.77 KB
(257,808 bytes) 2/17/2004 3:08:30 PM
Microsoft Corporation
c:\winnt\system32\webcheck.dll
ntshrui.dll 5.00.2134.1 46.77 KB
(47,888 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\ntshrui.dll
mydocs.dll 5.00.2920.0000 55.77 KB
(57,104 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\mydocs.dll
browseui.dll 5.00.3315.2846 788.77 KB
(807,696 bytes) 2/17/2004 3:08:22 PM
Microsoft Corporation
c:\winnt\system32\browseui.dll
shdocvw.dll 5.00.3315.2879 1.05 MB
(1,104,144 bytes) 2/17/2004 3:08:29 PM
Microsoft Corporation
c:\winnt\system32\shdocvw.dll
explorer.exe 5.00.3315.2846 237.27 KB
(242,960 bytes) 2/17/2004 3:08:31 PM
Microsoft Corporation
c:\winnt\explorer.exe
dfssvc.exe 5.00.2195.2841 88.27 KB
(90,384 bytes) 2/17/2004 3:08:23 PM
Microsoft Corporation
c:\winnt\system32\dfssvc.exe
iislog.dll 5.00.0984 75.27 KB (77,072 bytes)
2/17/2004 3:08:57 PM Microsoft
Corporation c:\winnt\system32\iislog.dll
ntlsapi.dll 5.00.2134.1 6.77 KB
(6,928 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\ntlsapi.dll
httpext.dll 0.9.3940.21 435.27 KB
(445,712 bytes) 2/17/2004 3:08:57 PM
Microsoft Corporation
c:\winnt\system32\httpext.dll
fpexedll.dll 4.0.2.4324 20.06 KB
(20,541 bytes) 2/17/2004 3:08:54 PM
Microsoft Corporation
c:\program
files\common files\microsoft shared\web server
extensions\40\bin\fpexedll.dll
md5filt.dll 5.00.0984 32.77 KB (33,552 bytes)
2/17/2004 3:08:58 PM Microsoft
Corporation c:\winnt\system32\inetrv\md5filt.dll
gzip.dll 5.00.0984 30.27 KB (30,992 bytes)
2/17/2004 3:08:57 PM Microsoft
Corporation c:\winnt\system32\inetrv\gzip.dll
compfilt.dll 5.00.0984 22.77 KB (23,312 bytes)
2/17/2004 3:08:57 PM Microsoft

```

Corporation
 c:\winnt\system32\inetsrv\compfilt.dll
 sspifilt.dll 5.00.0984 43.27 KB (44,304 bytes)
 2/17/2004 3:08:58 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\sspicat.dll
 iscomlog.dll 5.00.0984 24.77 KB (25,360 bytes)
 2/17/2004 3:08:57 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\iscomlog.dll
 lonsint.dll 5.00.0984 11.77 KB (12,048 bytes)
 2/17/2004 3:08:58 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\lonsint.dll
 inetsloc.dll 5.00.0984 20.27 KB (20,752 bytes)
 2/17/2004 3:08:24 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\inetsloc.dll
 iisfecnv.dll 5.00.0984 7.27 KB (7,440 bytes)
 2/17/2004 8:30:14 AM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\iisfecnv.dll
 isatq.dll 5.00.0984 60.27 KB (61,712 bytes)
 2/17/2004 3:08:57 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\isatq.dll
 infocomm.dll 5.00.0984 238.27 KB (243,984 bytes)
 2/17/2004 3:08:57 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\infocomm.dll
 w3svc.dll 5.00.0984 343.27 KB (351,504 bytes)
 2/17/2004 3:08:58 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\w3svc.dll
 security.dll 5.00.2154.1 5.77 KB
 (5,904 bytes) 12/31/1979 6:00:00 PM
 Microsoft Corporation
 c:\winnt\system32\security.dll
 svcext.dll 5.00.0984 39.77 KB (40,720 bytes)
 2/17/2004 3:08:58 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\svcext.dll
 admxms.dll 5.00.0984 27.77 KB (28,432 bytes)
 2/17/2004 3:08:57 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\admxms.dll
 wamreg.dll 5.00.0984 45.77 KB (46,864 bytes)
 2/17/2004 3:08:58 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\wamreg.dll
 metadata.dll 5.00.0984 68.77 KB (70,416 bytes)
 2/17/2004 3:08:58 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\metadata.dll
 iismap.dll 5.00.0984 55.77 KB (57,104 bytes)
 2/17/2004 3:08:24 PM Microsoft
 Corporation
 c:\winnt\system32\iismap.dll
 nsepm.dll 5.00.0984 43.27 KB (44,304 bytes)
 2/17/2004 3:08:58 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\nsepm.dll
 admwprox.dll 5.00.0984 31.77 KB (32,528 bytes)
 2/17/2004 8:30:14 AM Microsoft
 Corporation
 c:\winnt\system32\admwprox.dll

coadmin.dll 5.00.0984 39.27 KB (40,208 bytes)
 2/17/2004 3:08:57 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\coadmin.dll
 iisadmin.dll 5.00.0984 15.27 KB (15,632 bytes)
 2/17/2004 3:08:57 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\iisadmin.dll
 rpcrref.dll 5.00.0984 4.27 KB (4,368 bytes)
 2/17/2004 3:08:58 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\rpcrref.dll
 iisrt1.dll 5.00.0984 119.77 KB (122,640 bytes)
 2/17/2004 3:08:24 PM Microsoft
 Corporation
 c:\winnt\system32\iisrt1.dll
 inetinfo.exe 5.00.0984 14.27 KB (14,608 bytes)
 2/17/2004 3:08:57 PM Microsoft
 Corporation
 c:\winnt\system32\inetsrv\inetinfo.exe
 netui1.dll 5.00.2134.1 210.27 KB
 (215,312 bytes) 12/31/1979 6:00:00 PM
 Microsoft Corporation
 c:\winnt\system32\netui1.dll
 netui0.dll 5.00.2134.1 70.27 KB
 (71,952 bytes) 12/31/1979 6:00:00 PM
 Microsoft Corporation
 c:\winnt\system32\netui0.dll
 ntlanman.dll 5.00.2157.1 35.27 KB
 (36,112 bytes) 12/31/1979 6:00:00 PM
 Microsoft Corporation
 c:\winnt\system32\ntlanman.dll
 wshnetbs.dll 5.00.2134.1 7.77 KB
 (7,952 bytes) 12/31/1979 6:00:00 PM
 Microsoft Corporation
 c:\winnt\system32\wshnetbs.dll
 perfos.dll 5.00.2155.1 21.27 KB
 (21,776 bytes) 12/31/1979 6:00:00 PM
 Microsoft Corporation
 c:\winnt\system32\perfos.dll
 provthrd.dll 1.50.1085.0000 68.07 KB
 (69,708 bytes) 2/17/2004 2:32:46 PM
 Microsoft Corporation
 c:\winnt\system32\wbem\provthrd.dll
 ntevt.dll 1.50.1085.0000 192.06 KB (196,669 bytes)
 12/31/1979 6:00:00 PM Microsoft Corporation
 c:\winnt\system32\wbem\ntevt.dll
 framedyn.dll 1.50.1085.0000 164.05 KB
 (167,992 bytes) 12/31/1979 6:00:00 PM
 Microsoft Corporation
 c:\winnt\system32\wbem\framedyn.dll
 cimwin32.dll 1.50.1085.0038 1.02 MB
 (1,073,232 bytes) 2/17/2004 3:08:32 PM
 Microsoft Corporation
 c:\winnt\system32\wbem\cimwin32.dll
 wbemsvc.dll 1.50.1085.0007 40.07 KB
 (41,036 bytes) 2/17/2004 3:08:32 PM
 Microsoft Corporation
 c:\winnt\system32\wbem\wbemsvc.dll
 wbemess.dll 1.50.1085.0039 364.07 KB
 (372,804 bytes) 2/17/2004 3:08:32 PM
 Microsoft Corporation
 c:\winnt\system32\wbem\wbemess.dll

fastprox.dll 1.50.1085.0037 144.08 KB
 (147,536 bytes) 2/17/2004 3:08:32 PM
 Microsoft Corporation
 c:\winnt\system32\wbem\fastprox.dll
 wbemcore.dll 1.50.1085.0036 628.07 KB
 (643,140 bytes) 2/17/2004 3:08:32 PM
 Microsoft Corporation
 c:\winnt\system32\wbem\wbemcore.dll
 wbemcomn.dll 1.50.1085.0021 692.07 KB
 (708,675 bytes) 2/17/2004 3:08:32 PM
 Microsoft Corporation
 c:\winnt\system32\wbem\wbemcomn.dll
 winmgmt.exe 1.50.1085.0029 192.08 KB
 (196,685 bytes) 2/17/2004 3:08:32 PM
 Microsoft Corporation
 c:\winnt\system32\wbem\winmgmt.exe
 msidle.dll 5.00.2920.0000 6.27 KB
 (6,416 bytes) 12/31/1979 6:00:00 PM
 Microsoft Corporation
 c:\winnt\system32\msidle.dll
 mstask.exe 4.71.2195.1 115.27 KB
 (118,032 bytes) 2/17/2004 3:08:27 PM
 Microsoft Corporation
 c:\winnt\system32\mstask.exe
 regsvc.exe 5.00.2195.2104 65.27 KB
 (66,832 bytes) 2/17/2004 3:08:28 PM
 Microsoft Corporation
 c:\winnt\system32\regsvc.exe
 llsrcp.dll 5.00.2149.1 45.77 KB
 (46,864 bytes) 12/31/1979 6:00:00 PM
 Microsoft Corporation
 c:\winnt\system32\llsrcp.dll
 llssrv.exe 5.00.2195.2649 114.27 KB
 (117,008 bytes) 5/4/2001 1:05:02 PM Microsoft Corporation
 c:\winnt\system32\llssrv.exe
 wmi.dll 5.00.2191.1 6.27 KB (6,416 bytes)
 12/31/1979 6:00:00 PM Microsoft Corporation
 c:\winnt\system32\wmi.dll
 netshell.dll 5.00.2195.2779 457.27 KB
 (468,240 bytes) 2/17/2004 3:08:27 PM
 Microsoft Corporation
 c:\winnt\system32\netshell.dll
 netman.dll 5.00.2195.2779 89.27 KB
 (91,408 bytes) 2/17/2004 3:08:27 PM
 Microsoft Corporation
 c:\winnt\system32\netman.dll
 ntmsdba.dll 5.00.2195.2779 167.27 KB
 (171,280 bytes) 2/17/2004 3:08:27 PM
 Microsoft Corporation
 c:\winnt\system32\ntmsdba.dll
 sens.dll 5.00.2163.1 36.77 KB (37,648 bytes)
 12/31/1979 6:00:00 PM Microsoft Corporation
 c:\winnt\system32\sens.dll
 ntmsvc.dll 5.00.2195.2779 391.27 KB
 (400,656 bytes) 2/17/2004 3:08:27 PM
 Microsoft Corporation
 c:\winnt\system32\ntmsvc.dll
 es.dll 2000.2.3471.1 222.27 KB (227,600 bytes)
 2/17/2004 3:08:23 PM Microsoft Corporation
 c:\winnt\system32\es.dll
 ntmarta.dll 5.00.2195.2862 98.77 KB
 (101,136 bytes) 2/17/2004 3:08:27 PM

Microsoft Corporation
c:\winnt\system32\ntmarta.dll
psapi.dll 5.00.2134.1 28.27 KB (28,944 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\psapi.dll
riched20.dll 5.30.23.1205 421.27 KB (431,376 bytes)
2/17/2004 3:08:28 PM Microsoft Corporation
c:\winnt\system32\riched20.dll
riched32.dll 5.00.2134.1 3.77 KB (3,856 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\riched32.dll
comdlg32.dll 5.00.3103.1000 236.77 KB (242,448 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\comdlg32.dll
aclient.exe 5.6.124 3.83 MB (4,018,252 bytes)
6/25/2003 11:06:00 PM Altiris, Inc. c:\altiris\aclient\aclient.exe
mtxoci.dll 2000.2.3471.1 101.77 KB (104,208 bytes)
2/17/2004 3:08:27 PM Microsoft Corporation
c:\winnt\system32\mtxoci.dll
resutils.dll 5.00.2195.2787 39.77 KB (40,720 bytes)
2/17/2004 3:08:28 PM Microsoft Corporation
c:\winnt\system32\resutils.dll
clusapi.dll 5.00.2195.2104 54.27 KB (55,568 bytes)
2/17/2004 3:08:22 PM Microsoft Corporation
c:\winnt\system32\clusapi.dll
msvcp50.dll 5.00.7051.552.50 KB (565,760 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\msvcp50.dll
xolehlp.dll 1999.9.3421.3 17.27 KB (17,680 bytes)
2/17/2004 8:30:04 AM Microsoft Corporation
c:\winnt\system32\xolehlp.dll
msdtclog.dll 1999.9.3421.3 89.77 KB (91,920 bytes)
2/17/2004 8:30:04 AM Microsoft Corporation
c:\winnt\system32\msdtclog.dll
mtxclu.dll 2000.2.3471.1 51.27 KB (52,496 bytes)
2/17/2004 3:08:27 PM Microsoft Corporation
c:\winnt\system32\mtxclu.dll
msdtcprx.dll 2000.2.3471.1 665.77 KB (681,744 bytes)
2/17/2004 3:08:25 PM Microsoft Corporation
c:\winnt\system32\msdtcprx.dll
txfaux.dll 2000.2.3471.1 374.27 KB (383,248 bytes)
2/17/2004 3:08:30 PM Microsoft Corporation
c:\winnt\system32\txfaux.dll
msdtctm.dll 2000.2.3471.1 1.07 MB (1,120,528 bytes)
2/17/2004 3:08:25 PM Microsoft Corporation
c:\winnt\system32\msdtctm.dll
msdtc.exe 1999.9.3421.3 6.77 KB (6,928 bytes)
2/17/2004 8:30:04 AM Microsoft Corporation
c:\winnt\system32\msdtc.exe

rpcss.dll 5.00.2195.2815 231.27 KB (236,816 bytes)
2/17/2004 3:08:28 PM Microsoft Corporation
c:\winnt\system32\rpcss.dll
svchost.exe 5.00.2134.1 7.77 KB (7,952 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\svchost.exe
dsenh.dll 5.00.2195.2228 142.77 KB (146,192 bytes)
2/17/2004 3:08:55 PM Microsoft Corporation
c:\winnt\system32\dsenh.dll
oakley.dll 5.00.2195.2785 378.77 KB (387,856 bytes)
2/17/2004 3:08:27 PM Microsoft Corporation
c:\winnt\system32\oakley.dll
mfc42u.dll 6.00.8665.0 972.05 KB (995,384 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\mfc42u.dll
polagent.dll 5.00.2183.1 108.27 KB (110,864 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\polagent.dll
scecli.dll 5.00.2195.2780 105.27 KB (107,792 bytes)
2/17/2004 3:08:29 PM Microsoft Corporation
c:\winnt\system32\scecli.dll
atl.dll 3.00.8449.57.56 KB (58,938 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\atl.dll
certcli.dll 5.00.2195.2778 130.77 KB (133,904 bytes)
2/17/2004 3:08:22 PM Microsoft Corporation
c:\winnt\system32\certcli.dll
esent.dll 6.0.3940.13 1.08 MB (1,135,376 bytes)
2/17/2004 3:08:23 PM Microsoft Corporation
c:\winnt\system32\esent.dll
ntdsatq.dll 5.00.2195.2878 31.27 KB (32,016 bytes)
2/17/2004 3:08:27 PM Microsoft Corporation
c:\winnt\system32\ntdsatq.dll
ntdsa.dll 5.00.2195.2899 990.77 KB (1,014,544 bytes)
2/17/2004 3:08:27 PM Microsoft Corporation
c:\winnt\system32\ntdsa.dll
kdcsvc.dll 5.00.2195.2878 137.77 KB (141,072 bytes)
2/17/2004 3:08:24 PM Microsoft Corporation
c:\winnt\system32\kdcsvc.dll
sfmapi.dll 5.00.2134.1 38.77 KB (39,696 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\sfmapi.dll
rassfm.dll 5.00.2195.2671 21.27 KB (21,776 bytes)
2/17/2004 3:08:28 PM Microsoft Corporation
c:\winnt\system32\rassfm.dll
mpr.dll 5.00.2195.2779 53.27 KB (54,544 bytes)
2/17/2004 3:08:25 PM Microsoft Corporation
c:\winnt\system32\mpr.dll
rsabase.dll 5.00.2195.2228 128.27 KB (131,344 bytes)
5/4/2001 1:05:02 PM Microsoft Corporation
c:\winnt\system32\rsabase.dll

schannel.dll 5.00.2195.2922 138.27 KB (141,584 bytes)
5/4/2001 1:05:02 PM Microsoft Corporation
c:\winnt\system32\schannel.dll
netlogon.dll 5.00.2195.2865 357.77 KB (366,352 bytes)
2/17/2004 3:08:27 PM Microsoft Corporation
c:\winnt\system32\netlogon.dll
kerberos.dll 5.00.2195.2913 198.77 KB (203,536 bytes)
2/17/2004 3:08:24 PM Microsoft Corporation
c:\winnt\system32\kerberos.dll
msprivs.dll 5.00.2154.1 41.50 KB (42,496 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\msprivs.dll
samsvr.dll 5.00.2195.2918 369.77 KB (378,640 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\samsvr.dll
lsasrv.dll 5.00.2195.2964 492.77 KB (504,592 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\lsasrv.dll
lsass.exe 5.00.2195.2964 32.77 KB (33,552 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\lsass.exe
wmicore.dll 5.00.2195.2842 72.27 KB (74,000 bytes)
2/17/2004 3:08:31 PM Microsoft Corporation
c:\winnt\system32\wmicore.dll
mswsock.dll 5.00.2195.2871 62.77 KB (64,272 bytes)
2/17/2004 3:08:27 PM Microsoft Corporation
c:\winnt\system32\mswsock.dll
msgsvc.dll 5.00.2195.2939 34.27 KB (35,088 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\msgsvc.dll
browser.dll 5.00.2195.2778 48.27 KB (49,424 bytes)
2/17/2004 3:08:22 PM Microsoft Corporation
c:\winnt\system32\browser.dll
alrsvc.dll 5.00.2134.1 17.77 KB (18,192 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\alrsvc.dll
trkwks.dll 5.00.2166.1 88.77 KB (90,896 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\trkwks.dll
seclogon.dll 5.00.2135.1 15.77 KB (16,144 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\seclogon.dll
psbase.dll 5.00.2195.2779 111.77 KB (114,448 bytes)
2/17/2004 3:08:28 PM Microsoft Corporation
c:\winnt\system32\psbase.dll
cryptsvc.dll 5.00.2181.1 61.77 KB (63,248 bytes)
12/31/1979 6:00:00 PM Microsoft Corporation
c:\winnt\system32\cryptsvc.dll

cryptdll.dll 5.00.2135.1 41.27 KB
(42,256 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\cryptdll.dll
wkssvc.dll 5.00.2195.2780 95.27 KB
(97,552 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\wkssvc.dll
srvsvc.dll 5.00.2195.2904 79.27 KB
(81,168 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\srvsvc.dll
cfgmgr32.dll 5.00.2134.1 16.77 KB
(17,168 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\cfgmgr32.dll
dmserver.dll 2195.2778.297.3 11.77 KB
(12,048 bytes) 2/17/2004 3:08:23 PM
VERITAS Software Corp.
c:\winnt\system32\dmserver.dll
winsta.dll 5.00.2195.2386 36.77 KB
(37,648 bytes) 2/17/2004 3:08:31 PM
Microsoft Corporation
c:\winnt\system32\winsta.dll
lmhsvc.dll 5.00.2195.2778 9.77 KB
(10,000 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\lmhsvc.dll
dnssrslvr.dll 5.00.2195.2778 88.77 KB
(90,896 bytes) 2/17/2004 3:08:23 PM
Microsoft Corporation
c:\winnt\system32\dnssrslvr.dll
eventlog.dll 5.00.2178.1 43.77 KB
(44,816 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\eventlog.dll
scesrv.dll 5.00.2195.2780 226.27 KB
(231,696 bytes) 2/17/2004 3:08:29 PM
Microsoft Corporation
c:\winnt\system32\scesrv.dll
umpnpgmr.dll 5.00.2182.1 86.27 KB
(88,336 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\umpnpgmr.dll
services.exe 5.00.2195.2780 86.77 KB
(88,848 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\services.exe
cscui.dll 5.00.2195.2959 228.27 KB (233,744
bytes) 2/17/2004 3:08:22 PM Microsoft
Corporation c:\winnt\system32\cscui.dll
wininet.dll 5.00.3315.1000 456.77 KB
(467,728 bytes) 2/17/2004 3:08:30 PM
Microsoft Corporation
c:\winnt\system32\wininet.dll
cryptnet.dll 5.131.2157.1 41.77 KB
(42,768 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\cryptnet.dll
msv1_0.dll 5.00.2195.2900 111.77 KB
(114,448 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\msv1_0.dll

ntdsapi.dll 5.00.2195.2661 55.77 KB
(57,104 bytes) 2/17/2004 3:08:27 PM
Microsoft Corporation
c:\winnt\system32\ntdsapi.dll
rasadhlp.dll 5.00.2168.1 7.27 KB
(7,440 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\rasadhlp.dll
winrnr.dll 5.00.2160.1 18.77 KB
(19,216 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\winrnr.dll
clbcatq.dll 2000.2.3471.1 496.77 KB
(508,688 bytes) 2/17/2004 3:08:22 PM
Microsoft Corporation
c:\winnt\system32\clbcatq.dll
dhcpcsvc.dll 5.00.2195.2778 88.77 KB
(90,896 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\dhcpcsvc.dll
tapi32.dll 5.00.2182.1 123.27 KB
(126,224 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\tapi32.dll
rasman.dll 5.00.2195.2780 54.77 KB
(56,080 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\rasman.dll
rasapi32.dll 5.00.2195.2671 189.77 KB
(194,320 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\rasapi32.dll
rtutils.dll 5.00.2168.1 43.77 KB
(44,816 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\rtutils.dll
adslrpc.dll 5.00.2195.2842 127.27 KB
(130,320 bytes) 2/17/2004 3:08:21 PM
Microsoft Corporation
c:\winnt\system32\adslrpc.dll
activeds.dll 5.00.2195.2778 174.77 KB
(178,960 bytes) 2/17/2004 3:08:20 PM
Microsoft Corporation
c:\winnt\system32\activeds.dll
oleaut32.dll 2.40.4517 612.27 KB (626,960
bytes) 12/31/1979 6:00:00 PM Microsoft
Corporation c:\winnt\system32\oleaut32.dll
mprapi.dll 5.00.2181.1 79.27 KB
(81,168 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\mprapi.dll
icmp.dll 5.00.2134.1 7.27 KB (7,440 bytes)
12/31/1979 6:00:00 PM Microsoft
Corporation c:\winnt\system32\icmp.dll
iphlpapi.dll 5.00.2173.2 67.77 KB
(69,392 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\iphlpapi.dll
rnr20.dll 5.00.2195.2871 35.77 KB (36,624 bytes)
2/17/2004 3:08:28 PM Microsoft
Corporation c:\winnt\system32\rnr20.dll
wshtccpip.dll 5.00.2195.2104 17.27 KB
(17,680 bytes) 2/17/2004 3:08:31 PM

Microsoft Corporation
c:\winnt\system32\wshtccpip.dll
msafd.dll 5.00.2195.2779 106.77 KB (109,328
bytes) 2/17/2004 3:08:25 PM Microsoft
Corporation c:\winnt\system32\msafd.dll
winspool.drv 5.00.2195.2780 109.77 KB
(112,400 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\winspool.drv
wincard.dll 5.00.2134.1 77.27 KB
(79,120 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\wincard.dll
wlnotify.dll 5.00.2195.2780 53.77 KB
(55,056 bytes) 2/17/2004 3:08:31 PM
Microsoft Corporation
c:\winnt\system32\wlnotify.dll
cscdll.dll 5.00.2195.2401 98.27 KB
(100,624 bytes) 2/17/2004 3:08:22 PM
Microsoft Corporation
c:\winnt\system32\cscdll.dll
lz32.dll 5.00.2134.1 9.77 KB (10,000 bytes)
12/31/1979 6:00:00 PM Microsoft
Corporation c:\winnt\system32\lz32.dll
version.dll 5.00.2134.1 15.77 KB
(16,144 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\version.dll
rsaenh.dll 5.00.2195.2228 130.77 KB
(133,904 bytes) 2/17/2004 3:08:55 PM
Microsoft Corporation
c:\winnt\system32\rsaenh.dll
mscat32.dll 5.131.2134.1 7.77 KB
(7,952 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\mscat32.dll
ole32.dll 5.00.2195.2887 969.77 KB (993,040
bytes) 2/17/2004 3:08:28 PM Microsoft
Corporation c:\winnt\system32\ole32.dll
imagehlp.dll 5.00.2195.2778 125.77 KB
(128,784 bytes) 5/4/2001 1:05:02 PM Microsoft
Corporation c:\winnt\system32\imagehlp.dll
msasn1.dll 5.00.2134.1 51.27 KB
(52,496 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\msasn1.dll
crypt32.dll 5.131.2195.2833 451.27 KB
(462,096 bytes) 2/17/2004 3:08:22 PM
Microsoft Corporation
c:\winnt\system32\crypt32.dll
wintrust.dll 5.131.2195.2779 162.27 KB
(166,160 bytes) 2/17/2004 3:08:31 PM
Microsoft Corporation
c:\winnt\system32\wintrust.dll
setupapi.dll 5.00.2195.2663 555.77 KB
(569,104 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\setupapi.dll
winmm.dll 5.00.2161.1 184.77 KB (189,200
bytes) 12/31/1979 6:00:00 PM Microsoft
Corporation c:\winnt\system32\winmm.dll

```

comctl32.dll      5.81      537.77 KB (550,672
bytes) 12/31/1979 6:00:00 PM Microsoft
Corporation c:\winnt\system32\comctl32.dll
shlwapi.dll      5.00.3315.1000 282.77 KB
(289,552 bytes) 2/17/2004 3:08:29 PM
Microsoft Corporation
c:\winnt\system32\shlwapi.dll
shell32.dll      5.00.3315.2902 2.25 MB
(2,359,056 bytes) 2/17/2004 3:08:29 PM
Microsoft Corporation
c:\winnt\system32\shell32.dll
msgina.dll       5.00.2195.2779 324.27 KB
(332,048 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\msgina.dll
wsock32.dll      5.00.2195.2871 21.27 KB
(21,776 bytes) 2/17/2004 3:08:31 PM
Microsoft Corporation
c:\winnt\system32\wsock32.dll
dnsapi.dll       5.00.2195.2785 130.77 KB
(133,904 bytes) 2/17/2004 3:08:23 PM
Microsoft Corporation
c:\winnt\system32\dnsapi.dll
wldap32.dll      5.00.2195.2797 125.27 KB
(128,272 bytes) 2/17/2004 3:08:31 PM
Microsoft Corporation
c:\winnt\system32\wldap32.dll
ws2help.dll      5.00.2134.1 17.77 KB
(18,192 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\ws2help.dll
ws2_32.dll       5.00.2195.2780 67.77 KB
(69,392 bytes) 2/17/2004 3:08:31 PM
Microsoft Corporation
c:\winnt\system32\ws2_32.dll
samlib.dll       5.00.2195.2780 49.77 KB
(50,960 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\samlib.dll
netrap.dll       5.00.2134.1 11.27 KB
(11,536 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\netrap.dll
netapi32.dll     5.00.2195.2808 303.77 KB
(311,056 bytes) 2/17/2004 3:08:27 PM
Microsoft Corporation
c:\winnt\system32\netapi32.dll
profmap.dll      5.00.2181.1 29.27 KB
(29,968 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\profmap.dll
secur32.dll      5.00.2195.2862 46.77 KB
(47,888 bytes) 2/17/2004 3:08:29 PM
Microsoft Corporation
c:\winnt\system32\secur32.dll
sfc.dll          5.00.2195.2896 92.11 KB (94,320 bytes)
2/17/2004 3:08:29 PM Microsoft
Corporation c:\winnt\system32\sfc.dll
nddeapi.dll      5.00.2137.1 15.27 KB
(15,632 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\nddeapi.dll

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```

userenv.dll      5.00.2195.2780 361.77 KB
(370,448 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\userenv.dll
user32.dll       5.00.2195.2821 392.77 KB
(402,192 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\user32.dll
gdi32.dll        5.00.2195.2778 228.77 KB (234,256
bytes) 12/31/1979 6:00:00 PM Microsoft
Corporation c:\winnt\system32\gdi32.dll
rpcrt4.dll       5.00.2195.2832 437.27 KB
(447,760 bytes) 2/17/2004 3:08:28 PM
Microsoft Corporation
c:\winnt\system32\rpcrt4.dll
advapi32.dll     5.00.2195.2867 351.77 KB
(360,208 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\advapi32.dll
kernel32.dll     5.00.2195.2778 714.77 KB
(731,920 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\kernel32.dll
msvcrt.dll       6.10.8924.0 284.05 KB
(290,869 bytes) 5/4/2001 1:05:02 PM Microsoft
Corporation c:\winnt\system32\msvcrt.dll
winlogon.exe     5.00.2195.2953 173.77 KB
(177,936 bytes) 12/31/1979 6:00:00 PM
Microsoft Corporation
c:\winnt\system32\winlogon.exe
sfcfiles.dll     5.00.2195.2967 948.27 KB
(971,024 bytes) 2/17/2004 3:08:29 PM
Microsoft Corporation
c:\winnt\system32\sfcfiles.dll
ntdll.dll        5.00.2195.2779 478.77 KB (490,256
bytes) 5/4/2001 1:05:02 PM Microsoft Corporation
c:\winnt\system32\ntdll.dll
smss.exe         5.00.2195.2901 44.27 KB (45,328 bytes)
12/31/1979 6:00:00 PM Microsoft
Corporation c:\winnt\system32\smss.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:\altiris\aclient\aclient.exe -service
Normal LocalSystem 0
Alerter Alerter Running Auto Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Application Management AppMgmt Stopped
Manual Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Computer Browser Browser Running Auto
Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Indexing Service cisvc Stopped Manual
Share Process

```

```

c:\winnt\system32\cisvc.exe Normal
LocalSystem 0
ClipBook ClipSrv Stopped Manual Own Process
c:\winnt\system32\clipsrv.exe Normal
LocalSystem 0
Distributed File System Dfs Running
Auto Own Process
c:\winnt\system32\dfsrv.exe Normal
LocalSystem 0
DHCP Client Dhcp Running Auto
Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Logical Disk Manager Administrative Service
dmdmadmin Stopped Manual Share Process
c:\winnt\system32\dmdmadmin.exe /com
Normal LocalSystem 0
Logical Disk Manager dmserver Running
Auto Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
DNS Client DnsCache Running Auto
Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Event Log Eventlog Running Auto Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
COM+ Event System EventSystem Running
Manual Share Process
c:\winnt\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Fax Service Fax Stopped Manual Own
Process c:\winnt\system32\faxsvc.exe Normal
LocalSystem 0
IIS Admin Service IISADMIN Running Auto
Share Process
c:\winnt\system32\inetrv\inetinfo.exe
Normal LocalSystem 0
Intersite Messaging IsmServ Stopped Disabled Own
Process c:\winnt\system32\ismserv.exe Normal
LocalSystem 0
Kerberos Key Distribution Center kdc
Stopped Disabled Share Process
c:\winnt\system32\lsass.exe Normal
LocalSystem 0
Server lanmanserver Running Auto
Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Workstation lanmanworkstation Running
Auto Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
License Logging Service LicenseService
Running Auto Own Process
c:\winnt\system32\llssrv.exe Normal
LocalSystem 0
TCP/IP NetBIOS Helper Service LmHosts Running
Auto Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0

```

```

Messenger Messenger Running Auto Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
NetMeeting Remote Desktop Sharing mnmsrvc
Stopped Manual Own Process
c:\winnt\system32\mnmsrvc.exe Normal
LocalSystem 0
Distributed Transaction Coordinator MSDTC
Running Auto Own Process
c:\winnt\system32\msdtc.exe Normal
LocalSystem 0
Windows Installer MSIServer Stopped Manual
Share Process
c:\winnt\system32\msiexec.exe /v
Normal LocalSystem 0
Network DDE NetDDE Stopped Manual
Share Process
c:\winnt\system32\netdde.exe Normal
LocalSystem 0
Network DDE DSDM NetDDEdsdm Stopped
Manual Share Process
c:\winnt\system32\netdde.exe Normal
LocalSystem 0
Net Logon Netlogon Stopped Manual Share Process
c:\winnt\system32\lsass.exe Normal
LocalSystem 0
Network Connections Netman Running Manual
Share Process
c:\winnt\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
File Replication NtFrs Stopped Manual Own
Process c:\winnt\system32\ntfrs.exe Ignore
LocalSystem 0
NT LM Security Support Provider NtLmSsp
Stopped Manual Share Process
c:\winnt\system32\lsass.exe Normal
LocalSystem 0
Removable Storage NtmsSvc Running Auto
Share Process
c:\winnt\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Plug and Play PlugPlay Running Auto
Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
IPSEC Policy Agent PolicyAgent Running
Auto Share Process
c:\winnt\system32\lsass.exe Normal
LocalSystem 0
Protected Storage ProtectedStorage Running
Auto Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Remote Access Auto Connection Manager RasAuto
Stopped Manual Share Process
c:\winnt\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Remote Access Connection Manager RasMan
Stopped Manual Share Process
c:\winnt\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Routing and Remote Access RemoteAccess
Stopped Disabled Share Process

```

```

c:\winnt\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Remote Registry Service RemoteRegistry
Running Auto Own Process
c:\winnt\system32\regsvc.exe Normal
LocalSystem 0
Remote Procedure Call (RPC) Locator RpcLocator
Stopped Manual Own Process
c:\winnt\system32\locator.exe Normal
LocalSystem 0
Remote Procedure Call (RPC) RpcSs Running
Auto Share Process
c:\winnt\system32\svchost -k rpcss
Normal LocalSystem 0
QoS RSVP RSVP Running Manual Own Process
c:\winnt\system32\rsvp.exe -s Normal
LocalSystem 0
Security Accounts Manager SamSs Running
Auto Share Process
c:\winnt\system32\lsass.exe Normal
LocalSystem 0
Smart Card Helper SCardDrv Stopped Manual
Share Process
c:\winnt\system32\scardsvr.exe
Ignore LocalSystem 0
Smart Card SCardSvr Stopped Manual
Share Process
c:\winnt\system32\scardsvr.exe
Ignore LocalSystem 0
Task Scheduler Schedule Running Auto
Share Process
c:\winnt\system32\mstask.exe Normal
LocalSystem 0
RunAs Service seclogon Running Auto
Share Process
c:\winnt\system32\services.exe
Ignore LocalSystem 0
System Event Notification SENS Running
Auto Share Process
c:\winnt\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Internet Connection Sharing SharedAccess
Stopped Manual Share Process
c:\winnt\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Simple Mail Transport Protocol (SMTP) SMTPSVC
Stopped Disabled Share Process
c:\winnt\system32\inetinfo.exe
Normal LocalSystem 0
Print Spooler Spooler Stopped Disabled Own
Process c:\winnt\system32\spoolsv.exe Normal
LocalSystem 0
Performance Logs and Alerts SysmonLog Stopped
Manual Own Process
c:\winnt\system32\smlogsvc.exe
Normal LocalSystem 0
Telephony TapiSrv Stopped Disabled Share Process
c:\winnt\system32\svchost.exe -k tapisrv
Normal LocalSystem 0
Terminal Services TermService Stopped
Disabled Own Process
c:\winnt\system32\termsrv.exe Normal
LocalSystem 0

```

```

Telnet TlntSvr Stopped Manual Own Process
c:\winnt\system32\tlntsvr.exe Normal
LocalSystem 0
Distributed Link Tracking Server TrkSvr
Stopped Manual Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Distributed Link Tracking Client TrkWks
Running Auto Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Uninterruptible Power Supply UPS Stopped
Manual Own Process
c:\winnt\system32\ups.exe Normal
LocalSystem 0
Utility Manager UtilMan Stopped Manual Own
Process c:\winnt\system32\utilman.exe Normal
LocalSystem 0
Windows Time W32Time Stopped Manual
Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
World Wide Web Publishing Service W3SVC
Running Auto Share Process
c:\winnt\system32\inetinfo.exe
Normal LocalSystem 0
Windows Management Instrumentation WinMgmt
Running Auto Own Process
c:\winnt\system32\wbem\winmgmt.exe
Ignore LocalSystem 0
Windows Management Instrumentation Driver Extensions
Wmi Running Manual Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0

```

[Program Groups]

Group Name	Name	User Name
Accessories	Default	User:Accessories
Accessories\Accessibility	Default	Default User
Accessories\Entertainment	Default	Default User
User:Accessories\Entertainment	Default	Default User
Accessories\System Tools	Default	Default User
User:Accessories\System Tools	Default	Default User
Startup	Default	User:Startup
Accessories	All Users:Accessories	All Users
Accessories\Accessibility	All	All Users
Users:Accessories\Accessibility	All	All Users
Accessories\Communications	All	All Users
Users:Accessories\Communications	All	All Users
Accessories\Entertainment	All	All Users
Users:Accessories\Entertainment	All	All Users
Accessories\Games	All Users:Accessories\Games	All Users
Accessories\Microsoft Script Debugger	All	All Users
Users:Accessories\Microsoft Script Debugger	All	All Users
Accessories\System Tools	All	All Users
Users:Accessories\System Tools	All	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
Tardis      All Users:Tardis    All Users
Accessories CL250\Administrator:Accessories
              CL250\Administrator
Accessories\Accessibility
              CL250\Administrator:Accessories\Accessibili
ty          CL250\Administrator
Accessories\Entertainment
              CL250\Administrator:Accessories\Entertainme
nt          CL250\Administrator
Accessories\System Tools
              CL250\Administrator:Accessories\System
Tools      CL250\Administrator
Administrative Tools
              CL250\Administrator:Administrative Tools
              CL250\Administrator
Startup    CL250\Administrator:Startup
              CL250\Administrator

[Startup Programs]

Program  Command  User Name  Location
AClntUsr c:\altiris\aclient\acIntusr.exe  All
Users
              HKLM\SOFTWARE\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
Image Document  "C:\Program Files\Windows
NT\Accessories\ImageVue\KodakImg.exe"
WordPad Document  "%ProgramFiles%\Windows
NT\Accessories\WORDPAD.EXE"
Windows Media Services DRM Storage object  Not
Available
Bitmap Image  mspaint.exe

[Internet Explorer 5]

[ Following are sub-categories of this main category
]

[Summary]

Item  Value
Version  5.00.3315.1000
Build  53315.1000
Product ID  51876-270-0279604-05237
Application Path  C:\Program Files\Internet
Explorer
Language  English (United States)
Active Printer  Not Available

```

```

Cipher Strength  168-bit
Content Advisor  Disabled
IEAK Install     No

```

[File Versions]

File	Version	Size	Date	Path
advapi32.dll	5.0.2195.2867	352 KB		
	5/4/2001 12:05:02 PM			
advpack.dll	5.0.3103.1000	87 KB		
	5/4/2001 12:05:02 PM			
browselc.dll	5.0.3315.2846	35 KB		
	5/4/2001 12:05:02 PM			
browseui.dll	5.0.3315.2846	789 KB		
	5/4/2001 12:05:02 PM			
ckcnv.exe	5.0.2189.1	9 KB		
	12/7/1999			
comctl32.dll	5.81.3103.1000	538 KB		
	5/4/2001 12:05:02 PM			
crypt32.dll	5.131.2195.2833	451 KB		
	5/4/2001 12:05:02 PM			
enhsig.dll	<File Missing>	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available
iemigrat.dll	<File Missing>	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available
iesetup.dll	5.0.3103.1000	57 KB		
	5/4/2001 12:05:02 PM			
iexplore.exe	5.0.2920.0	59 KB		
	12/7/1999			
Explorer	Microsoft Corporation			
imagehlp.dll	5.0.2195.2778	126 KB		
	5/4/2001 12:05:02 PM			
imghelp.dll	<File Missing>	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available
inseng.dll	5.0.3103.1000	72 KB		
	5/4/2001 12:05:02 PM			
jobexec.dll	5.0.0.1	47 KB		
	12/7/1999			
jscript.dll	5.1.0.5907	476 KB		
	5/4/2001 12:05:02 PM			
jsproxy.dll	5.0.2920.0	13 KB		
	12/7/1999			
Corporation	Microsoft Corporation			
msahtml.dll	<File Missing>	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available

mshtml.dll	5.0.3315.2870	2290 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
msjava.dll	5.0.3802.0	923 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
msoss.dll	<File Missing>	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available
msxml.dll	8.0.5718.1	493 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
occache.dll	5.0.3103.1000	86 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
ole32.dll	5.0.2195.2887	970 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
oleaut32.dll	2.40.4517.0	612 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
olepro32.dll	5.0.4517.0	160 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
rsabase.dll	5.0.2195.2228	128 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
rsaenh.dll	5.0.2195.2228	131 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
rsapi32.dll	<File Missing>	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available
rsasig.dll	<File Missing>	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available
rschannel.dll	5.1.2195.0	138 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
shdoc401.dll	<File Missing>	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available
shdocvw.dll	5.0.3315.2879	1078 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
shell32.dll	5.0.3315.2902	2304 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
shlwapi.dll	5.0.3315.1000	283 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
url.dll	5.0.2920.0	82 KB		
	12/7/1999			
	C:\WINNT\system32	Microsoft Corporation		
urlmon.dll	5.0.3315.1000	441 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
vbscript.dll	5.1.0.5907	428 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
webcheck.dll	5.0.3315.1000	252 KB		
	5/4/2001 12:05:02 PM			
	C:\WINNT\system32	Microsoft Corporation		
win.com	5.0.2134.1	24 KB		
	12/7/1999			
	C:\WINNT\system32	Microsoft Corporation		


```

wininet.dll          5.0.3315.1000      457 KB
                    5/4/2001 12:05:02 PM
                    C:\WINNT\system32 Microsoft Corporation
winsock.dll         3.10.0.103         3 KB
                    12/7/1999 C:\WINNT\system32 Microsoft
Corporation
wintrust.dll        5.131.2195.2779    162 KB
                    5/4/2001 12:05:02 PM
                    C:\WINNT\system32 Microsoft Corporation
wsock.vxd <File Missing> Not Available Not
Available Not Available Not Available
wsock32.dll         5.0.2195.2871     21 KB
                    5/4/2001 12:05:02 PM
                    C:\WINNT\system32 Microsoft Corporation
wsock32n.dll <File Missing> Not Available
Not Available Not Available Not
Available

```

[Connectivity]

```

Item      Value
Connection Preference      Never dial
EnableHttp1.1              1
ProxyHttp1.1               0

```

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      76308 MB
Available Disk Space      73461 MB
Maximum Cache Size      2384 MB
Available Cache Size      2385 MB

```

[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
Administrator Administrator 2/17/2004 to
1/24/2104 sha1RSA

```

[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
Local intranet      Medium-low
Trusted sites      Low
Internet Medium
Restricted sites      High

```

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 380. Delivery threads were set under the TPCC key in the registry. The construction string was Dummy String

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

Appendix D: 60-Day Space

TPC-C 60 Day Space Requirements						
Warehouses	2,300					28,711.93
Table	Rows	Data KB	Index KB	Extra 5% KB	TpmC 8hr Space	Total Space KB
Warehouse	2,350	256	32	14		302
District	23,500	2,616	32	132		2780
Customer	70,500,000	51,272,728	3,057,320	2,716,502		57046550
History	70,500,000	3,916,680	24		776,736	3916704
New_order	21,150,000	334,392	792	16,759		351943
Orders	70,500,000	2,160,920	982,672	4,004,449		3143592
Order_line	705,005,096	44,062,824	93,288	9,741,138		44156112
Item	100,000	9,528	48	479		10055
Stock	235,000,000	75,200,000	140,480	3,767,024		79107504
Total		176,959,944	4,274,688	6,500,911	14,522,323	187,735,543
MB						
Dynamic Space	48,965	Sum of Data for Order, Orderline and history				
Static Space	134,370	Sum of Data+Index+5%-Dynamic Space				
Free Space	na	Total Allocated Space - (Dynamic + Static Space)				
Daily Growth	9,780	(Dynamic Space/(W*62.5))*tpmc				
Daily Spread	-	(Free Space -1.5*Daily Growth) Zero Assumed				
60 Day Space MB	721,175					
60 Day Space GB	704.27	GB				
Log Size	138,000.00	MB				
KB Per New Order	4.84	KB				
8 hr log MB	65,113	MB				
8 hr log GB	63.5866	GB				
Space Usage	GB Needed	Disks Measured	GB Priced	Disk Size	Formatted Size	
60 Day Space DB	704.27	42	709.80	18.2GB	16.900	
			0.00			
			0.00			
Total DB			709.80			
8-hr log + mirror	127.1733	4	271.34	72.8GB	67.84	
OS, Swap	3	1	16.90	18.2GB	16.900	
Total Storage	834.45	GB	998.04	GB		

MSSQL_misc_fg	MSSQL_cs_fg
302	
2780	
4693440	57046550
351943	
7148041	
53897250	
10055	79107504
66,103,812	136,154,054
files= 3	3
size= 2,924,800	6,013,824
Total= 8,774,400	18,041,472
8K blocks 70,195,200	144,331,776
OK	OK

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

February 20, 2004

Hewlett Packard Company
John Ellyson
MS 150402
20555 SH 249
Houston, TX 77070-2698

Mr. Ellyson:

Here is the information you requested regarding pricing for several Microsoft products to be used in conjunction with your TPC-C benchmark testing.

All pricing shown is in US Dollars (\$).

Part Number	Description	Unit Price	Quantity	Price
810-00845	SQL Server 2000 Enterprise Edition <i>Per processor licensing Discount Schedule: Open Program Level B Unit Price reflects a 14% discount from the retail unit price of \$19,999.</i>	\$17,279	1	\$17,279
C11-00821	Windows 2000 Server <i>Server license only - No CALs Discount Schedule: Open Program - No Level Unit Price reflects a 8% discount from the retail unit price of \$799.</i>	\$738	1	\$738
P72-00264	Windows Server 2003, Enterprise Edition <i>Server license only - No CALs Discount Schedule: Open Program - No Level 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.

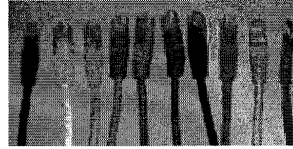
If we can be of any further assistance, please contact Jamie Reding at (425) 703-0510 or jamiere@microsoft.com.

Reference ID: PCjoel0420022510

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

- Home
- old page
- WE ARE ANTI SPAM
- Blacklisted Brands
- Barcode
- Cables
- Miscellaneous Items
- Network Cables & Parts
Cat5 Cat5e Cat6
- Networking
- Power
- Print servers
- Printing Supplies and Cables
- SCSI
- Software
- Storage

LanAdapters.com



7ft Cat 5e Network Patch Cables. (compatible with cat 5)

7ft Category 5 and (Cat5e)Enhanced Network patch cables MOLDED. 350MHZ RJ45/RJ45 Twist Pair supports fast ethernet. These cat 5 e cables are backwards compatible with cat 5
 green purple come with booted snagless ends
 blue light gray white black red yellow orange come with compact molded soft snagless

Availability: Usually ships the same business day.

CBLC57 \$1.00, 125/\$118.75 Color:

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