



Hewlett-Packard Company

TPC Benchmark™ C
Full Disclosure Report
for
HP ProLiant DL585-G1/32GB/2.4GHz
using
Microsoft SQL Server 2000 Enterprise Edition SP3
and
Windows Server 2003, Enterprise Edition

First Edition
October 2004

First Edition – October 2004

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Table of Contents

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

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

Preface

The TPC Benchmark C was developed by the Transaction Processing Performance Council (TPC). The TPC was founded to define transaction processing benchmarks and to disseminate objective, verifiable performance data to the industry. This full disclosure report is based on the TPC Benchmark C Standard Specifications Version 5.3.

TPC Benchmark C Overview

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

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

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

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

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

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

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

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

Abstract

Overview

This report documents the methodology and results of the TPC Benchmark C test conducted on the HP ProLiant DL585-G1. The operating system used for the benchmark was Windows Server 2003, Enterprise Edition. The DBMS used was Microsoft SQL Server 2000 Enterprise Edition SP3.

TPC Benchmark C Metrics

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

115,110 tpmC
USD \$2.62 per tpmC

The availability date is October 15, 2004.

Standard and Executive Summary Statements

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

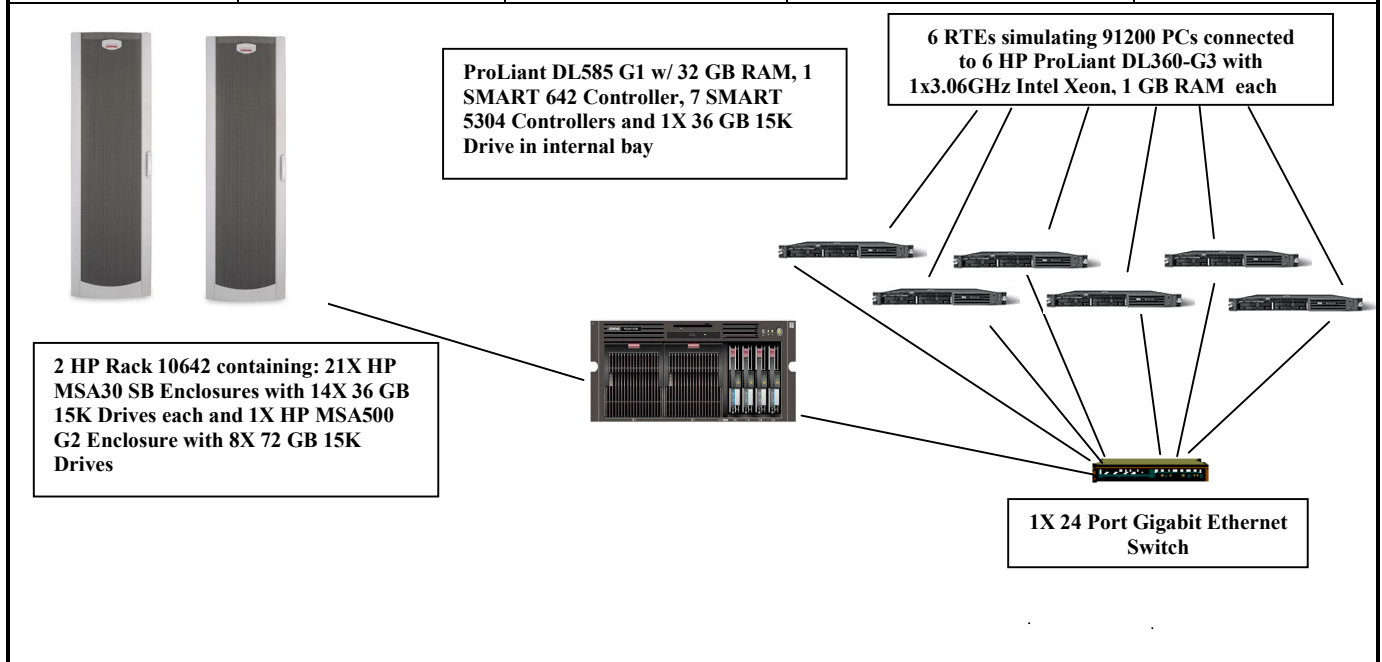
Auditor

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

Hewlett-Packard Company	HP ProLiant DL585-G1 32GB/2.4GHz/4P	TPC-C Rev. 5.3
	C/S with 6 HP ProLiant DL360R	Report Date: Oct. 15, 2004

Total System Cost	TPC-C Throughput	Price/Performance	Availability Date
\$301,430 USD	115,110	\$2.62 USD	Oct. 15, 2004

Processors	Database Manager	Operating System	Other Software	Number of Users
4 AMD Opteron 2.4 GHz – Server 6 Intel Xeon 3.06 GHz – Clients	Microsoft SQL Server 2000 Enterprise Edition SP3	Windows Server 2003, Enterprise Edition	Microsoft Visual C++ Microsoft COM+	91200



	Server		Each Client	
System Components	Quantity	Description	Quantity	Description
Processor	4	2.4 GHz AMD Opteron w/ 1M Cache	1	3.06 GHz Intel Xeon w/ 512K cache
Memory	16	2 GB DDR	2	512MB
Disk Controllers	1	HP Integrated 5i Smart Controller	1	Integrated SMART 5i Array Controller
	7	HP SMART 5304 Array Controllers		
	1	HP SMART 642 Array Controller		
Disk Drives	8	72 GB SCSI Drive	1	36.4 GB SCSI Drive
	295	36 GB SCSI Drive		
Total Storage		11320.4 GB		36.4 GB

Hewlett-Packard		P ProLiant DL585 2.4GHz/32GB/4P		TPC-C Rev. 5.3		
Company		Client/Server		Report Date:		15-Oct-04
Description	Part Number	Third Party Brand	Unit Price	Qty	Extended Price	3 yr. Maint. Price
Server Hardware						
ProLiant DL585 O850 2.4GHz (1 MB) x 2	365504-001		12,699	1	12,699	
- 2 GB PC2100 DDR, Integrated Smart Array Controller 5i,						
- Dual Port NC7782 embedded NIC						
AMD O850 2.4GHz/800 1MB DL585 Processor	359708-B21		3,699	2	7,398	
4GB PC2700 DDR SDRAM DIMM 2x2048 WW	371049-B21		3,199	8	25,592	
MSA30 SB storage enclosure	302969-B21		2,978	21	62,538	
HP Modular Smart Array 500 G2 Storage	335880-B21		4,499	1	4,499	
- 1 MSA500 G2 controller w/ 256 MB cache, 2 SA642 controllers						
HP Modular Smart Array 500 G2 Controller	335881-B21		2,499	1	2,499	
Smart Array 5304/256 Controller	283551-B21		2,247	7	15,729	
15" S5500 CRT Monitor	P9006A#ABA		129	1	129	
HP PS/2 Scroll Mouse carbonite	DG169AV		5	1	5	
HP Enhanced Keyboard	DG170AV#ABA		10	1	10	
Rack 10642 (42U) Standard Pallet WW	245161-B21		1,359	2	2,718	
UPS R1500 XR Low Voltage US	204404-001		866	1	866	
36GB 15K U320 Pluggable Hard Drive	286776-B22		299	294	87,906	
36GB 15K U320 Pluggable Hard Drive (10% Spares external drives)	286776-B22		299	30		8,970
36GB 15K U320 Pluggable Hard Drive (OS)	286776-B22		299	1	299	
72GB 15K U320 Pluggable Hard Drive	286778-B22		579	8	4,632	
72GB 15K U320 Pluggable Hard Drive (2 spares)	286778-B22		579	2		1,158
FM-M1724-36 3YR 24X7 4HR 500 SERIES SVR	401782-002		1,795	1		1,795
FM-4E724-36 3YR 24X7/4HR EMPTY DISK ENCL	171242-002		157	21		3,297
HP CP 3Y 4H 24x7 MSA500	U6456A/E		1,950	1		1,950
				Subtotal	227,519	17,170
Server Software						
Microsoft SQL Server 2000 Enterprise Edition(per processor)	810-00846	Microsoft	16,541	4	66,164	Incl Below
Microsoft Visual C++ Standard	254-00170	Microsoft	109	1	109	Incl Below
Microsoft Windows 2003 Server, Enterprise Edition	P72-00264	Microsoft	2,399	1	2,399	Incl Below
Microsoft Professional Support - 1 incident		Microsoft	245	1		245
				Subtotal	68,672	245
Client Hardware						
DL360 G3 X3.06GHz 512KB 1GB 1P RCK US	322470-001		2,349	6	14,094	
5i						
15" S5500 CRT Monitor	P9006A#ABA		129	6	774	
HP PS/2 Scroll Mouse carbonite	DG169AV		5	6	30	
HP Enhanced Keyboard	DG170AV#ABA		10	6	60	
36GB 15K U320 Pluggable Hard Drive	286776-B22		299	6	1,794	
FM-EL724-36 3YR 24X7 4HR ENTRY 300 SVR	162675-002		599	6		3,594
				Subtotal	16,752	3,594
Client Software						
Microsoft Windows 2000 Server	C11-00821	Microsoft	738	6	4,428	Incl. Above
				Subtotal	4,428	0
User Connectivity						
HP ProCurve 4104gl switch	J4887A		1499	1	1,499	
HP ProCurve switch GL 100/1000-T 6 port module	J4863A		999	2	1,998	
HP ProCurve switch GL 100/1000-T 6 port module (spares)	J4863A		999	2		1,998
Hewlett Packard ProCurve 4104 3Yr/4 Hour/24x7	U2856A/E		1000	1		1,000
				Subtotal	3,497	2,998
Large Purchase and Cash discount (See Note 1)	16.0%				(\$39,643)	(\$3,802)
				Total	\$281,225	\$20,205
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: USD 301,430		
				tpmC Rating: 115,110		
				\$ / tpmC: USD 2.62		
Pricing: 1=HP Direct 2= Microsoft						
Note 1 = Discount based on HP Direct guidance and large cash purchase level.						
Note:The benchmark results and test methodology were audited by Tom Sawyer of Performance Metrics, Inc.						

Numerical Quantities Summary

MQTH, Computed Maximum Qualified Throughput

115,110 tpmC

Response Times (in seconds)	Average	90%	Maximum
New-Order	0.22	0.32	4.99
Payment	0.18	0.27	4.46
Order-Status	0.20	0.30	4.98
Delivery (interactive portion)	0.10	0.11	0.12
Delivery (deferred portion)	0.13	0.21	0.75
Stock-Level	0.73	0.95	3.78
Menu	0.10	0.11	0.45

Transaction Mix, in percent of total transaction

New-Order	44.93%
Payment	43.04%
Order-Status	4.00%
Delivery	4.02%
Stock-Level	4.01%

Emulation Delay (in seconds)

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

Keying/Think Times (in seconds)

	Min.	Average	Max.
New-Order	18.02/0.00	18.03/12.03	18.19/120.32
Payment	3.00/0.00	3.02/12.05	3.18/120.51
Order-Status	2.00/0.00	2.02/10.03	2.17/100.32
Delivery (interactive)	2.00/0.00	2.02/5.03	2.17/50.21
Stock-Level	2.00/0.00	2.02/5.02	2.17/50.21

Test Duration

Ramp-up time	47 minutes
Measurement interval	120 minutes
Transactions (all types) completed during measurement interval	31,837,201
Ramp down time	21 minutes

Checkpointing

Number of checkpoints	4
Checkpoint interval	30 minutes

General Items

Test Sponsor

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

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

Application Code and Definition Statements

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

Appendix A contains all source code implemented in this benchmark.

Parameter Settings

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

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

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

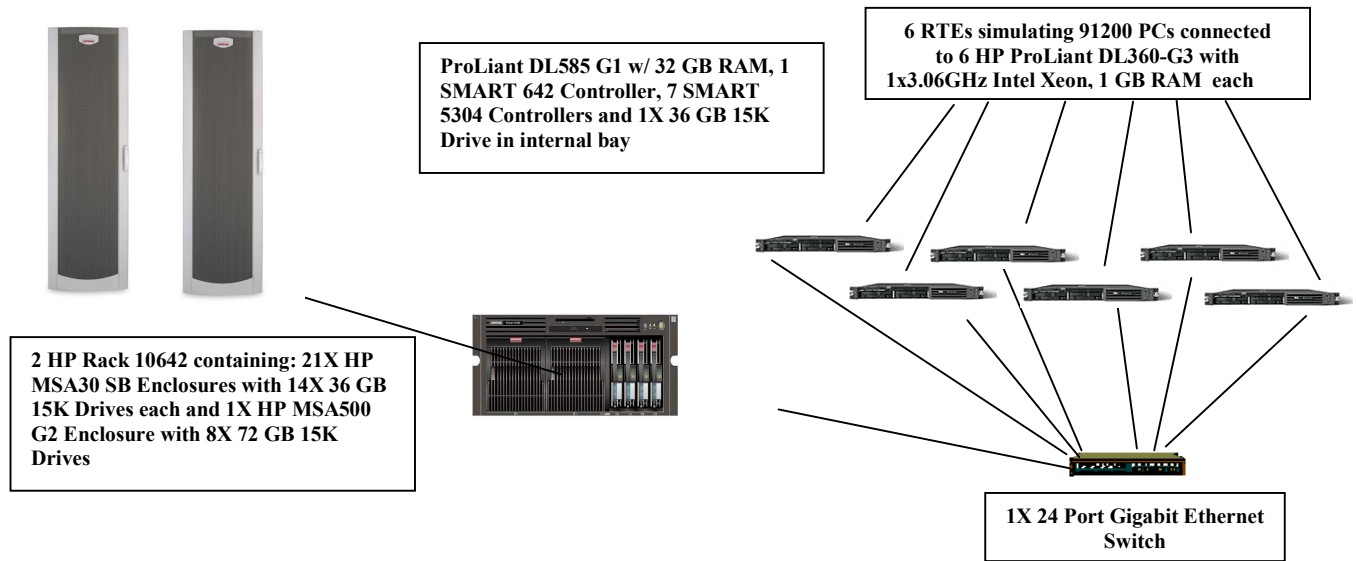
Appendix C contains the tunable parameters to for the database, the operating system, and the transaction monitor.

Configuration Items

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

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

Figure 1. Benchmarked and Priced Configuration



Clause 1 Related Items

Table Definitions

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

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

Physical Organization of Database

The physical organization of tables and indices within the database must be disclosed.

The tested configuration consisted of: 294 drives at 36GB connected to 7 SMART 5304 controllers for database data, 1 36GB drive for the operating system connected to the integrated SMART 5i controller, and 8 drives at 72GB in an MSA 500 G2 connected to a SMART 642 controller for database log.

Benchmarked Configuration:

Integrated SMART 5i Controller, Array A

LOGICAL DRIVE C: Total Capacity = 33.91 GB
Microsoft Windows Server 2003, Enterprise Edition

SMART-642 Controller (connected to MSA500G2), Slot 3, Array A

LOGICAL DRIVE E: Total Capacity = 271.34 GB RAID 0+1
MSSQL_tpcc_log

SMART-5304 Controller, Slot 1, Array A

LOGICAL DRIVE H: Total Capacity = 40.03 GB RAID 0
MSSQL_misc2

LOGICAL DRIVE O: Total Capacity = 90.81 GB RAID 0
MSSQL_cs2

LOGICAL DRIVE X: Total Capacity = 646.84 GB RAID 0+1
TpccBackup2

SMART-5304 Controller, Slot 2, Array A

LOGICAL DRIVE G: Total Capacity = 40.03 GB RAID 0
MSSQL_misc1

LOGICAL DRIVE N: Total Capacity = 90.81 GB RAID 0
MSSQL_cs1

LOGICAL DRIVE W: Total Capacity = 646.84 GB RAID 0+1
TpccBackup1

SMART-5304 Controller, Slot 4, Array A

LOGICAL DRIVE I: Total Capacity = 40.03 GB RAID 0
MSSQL_misc3

LOGICAL DRIVE P: Total Capacity = 90.81 GB RAID 0
MSSQL_cs3

LOGICAL DRIVE Y: Total Capacity = 646.84 GB RAID 0+1
TpccBackup3

SMART-5304 Controller, Slot 5, Array A

<u>LOGICAL DRIVE J:</u> MSSQL_misc4	<u>Total Capacity = 40.03 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE Q:</u> MSSQL_cs4	<u>Total Capacity = 90.81 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE Z:</u> TpccBackup4	<u>Total Capacity = 646.84 GB</u>	<u>RAID 0+1</u>

SMART-5304 Controller, Slot 6, Array A

<u>LOGICAL DRIVE K:</u> MSSQL_misc5	<u>Total Capacity = 40.03 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE R:</u> MSSQL_cs5	<u>Total Capacity = 90.81 GB</u>	<u>RAID 0</u>

SMART-5304 Controller, Slot 7, Array A

<u>LOGICAL DRIVE L:</u> MSSQL_misc6	<u>Total Capacity = 40.03 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE S:</u> MSSQL_cs6	<u>Total Capacity = 90.81 GB</u>	<u>RAID 0</u>

SMART-5304 Controller, Slot 8, Array A

<u>LOGICAL DRIVE M:</u> MSSQL_misc7	<u>Total Capacity = 40.03 GB</u>	<u>RAID 0</u>
<u>LOGICAL DRIVE T:</u> MSSQL_cs7	<u>Total Capacity = 90.81 GB</u>	<u>RAID 0</u>

Priced Configuration vs. Measured Configuration:

The measured and priced configuration are the same.

Insert and Delete Operations

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

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

Partitioning

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

No partitioning was used in this benchmark.

Replication, Duplication or Additions

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

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

Clause 2 Related Items

Random Number Generation

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

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

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

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

Input/Output Screen Layout

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

All screen layouts followed the specifications exactly.

Priced Terminal Feature Verification

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

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

Presentation Manager or Intelligent Terminal

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

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

Transaction Statistics

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

Table 2.1 Transaction Statistics

Statistic		Value
New Order	Home warehouse order lines	99.00%
	Remote warehouse order lines	1.00%
	Rolled back transactions	1.00%
	Average items per order	10.00
Payment	Home warehouse payments	85.00%
	Remote warehouse payments	15.00%
	Accessed by last name	60.02%
Order Status	Accessed by last name	60.09%
Transaction Mix	New Order	44.93%
	Payment	43.04%
	Order status	4.00%
	Delivery	4.02%
	Stock level	4.01%

Queuing Mechanism

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

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

The source code is listed in Appendix A.

Clause 3 Related Items

Transaction System Properties (ACID)

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

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

Atomicity

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

Completed Transactions

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

Aborted Transactions

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

Consistency

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

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

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

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

Isolation

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

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

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

For Isolation test seven, case A was followed.

Durability

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

Durable Media Failure

Loss of Data and Log

This test was executed on a fully scaled database of 916 warehouses under a full load of 9160 users. To demonstrate recovery from a permanent failure of durable medium containing DBMS logs and TPC-C tables, the following steps were executed:

- The total number of New Orders was determined by the sum of D_NEXT_O_ID of all rows in the DISTRICT table giving the beginning count.
- The RTEs were started with 9160 users.
- The test was allowed to run for a minimum of 10 minutes.
- One log disk was removed from the drive cabinet.
- Since the disk was mirrored, processing was not interrupted. This was verified by checking the users status on the RTE.
- One of the data disks was removed from the drive cabinet.
- When Microsoft SQL Server recorded errors about not being able to access the database, the RTE was shut down.
- A dump of the transaction log was taken and the Microsoft SQL Server was shutdown.
- A new log disk was inserted into the log drive cabinet. A new data disk was inserted into the data drive cabinet. After the RAID recovery process finished, the system was rebooted and Microsoft SQL Server was started.
- The database was restored from backup and the transaction log dump was applied.
- Consistency condition #3 was executed and verified.
- Step 2 was repeated and the difference between the first and second counts was noted.
- An RTE report was generated for the entire run time giving the number of NEW-ORDERS successfully returned to the RTE.
- The counts in step 13 and 14 were compared and the results verified that all committed transactions had been successfully recovered.
- Samples were taken from the RTE files and used to query the database to demonstrate successful transactions had corresponding rows in the ORDER table.

Instantaneous Interruption and Loss of Memory

Because loss of power erases the contents of memory, the instantaneous interruption and the loss of memory tests were combined into a single test. This test was executed on a fully scaled database of 9160 warehouses under a full load of 91200 users. The following steps were executed:

- The total number of New Orders was determined by the sum of D_NEXT_O_ID of all rows in the DISTRICT table giving the beginning count.
- The RTE was started with 91200 users.
- The test was allowed to run for a minimum of 10 minutes.
- A checkpoint was performed.
- System crash and loss of memory were induced by switching the power off. The power cords were then physically removed 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 1 was repeated and the difference between the first and second counts was noted.

- An RTE report was generated for the entire run time giving the number of NEW-ORDERS successfully returned to the RTE.
- The counts in step 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	9,160
District	91,600
Customer	274,800,000
History	274,800,000
Orders	274,800,000
New Order	82,440,000
Order Line	2,747,990,462
Stock	916,000,000
Item	100,000
Inactive Warehouses	40

Database Layout

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

The benchmarked configuration used 7 SMART 5304 Array controllers with 4 SCSI channels each connected to 3 MSA30 single-bus disk enclosure and 1 SMART 642 Array controller connected to 1 MSA500G2 (with redundant controller) disk enclosure. Each SMART 5304 Array 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 7 RAID arrays of (42) 36GB 15K drives each. Each array was configured as RAID 0 and housed 2 logical drives for database data. Some of these controllers also housed a RAID 0+1 volume used for backup of the database. The MSA500G2 had one array consisting of (8) 72GB 15K drives and housed a RAID 0+1 logical volume for the database log. The operating system was housed internally on the integrated Smart 5i controller on a single 36GB 15K drive. The Array Accelerators on the data controllers as well as the MSA500G2 controller were configured as 100% write cache and were enabled for all logical drives. All RAID volumes used hardware RAID.

Section 1.2 of this report details the distribution of database tables across all disks. The code that creates the 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 115,110 tpmC
Price per tpmC USD \$2.62 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	0.22	0.32	4.99
Payment	0.18	0.27	4.46
Order-Status	0.20	0.30	4.98
Interactive Delivery	0.10	0.11	0.12
Deferred Delivery	0.13	0.21	0.75
Stock-Level	0.73	0.95	3.78
Menu	0.10	0.11	0.45

Keying and Think Times

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

Table 5.3: Keying Times

Type	Minimum	Average	Maximum
New-Order	18.02	18.03	18.19
Payment	3.00	3.02	3.18
Order-Status	2.00	2.02	2.17
Interactive Delivery	2.00	2.02	2.17
Stock-Level	2.00	2.02	2.17

Table 5.4: Think Times

Type	Minimum	Average	Maximum
New-Order	0.00	12.03	120.32
Payment	0.00	12.05	120.51
Order-Status	0.00	10.03	100.32
Interactive Delivery	0.00	5.03	50.21
Stock-Level	0.00	5.02	50.21

Response Time Frequency Distribution Curves and Other Graphs

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

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

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

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

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

Figure 2. New Order Response Time Distribution

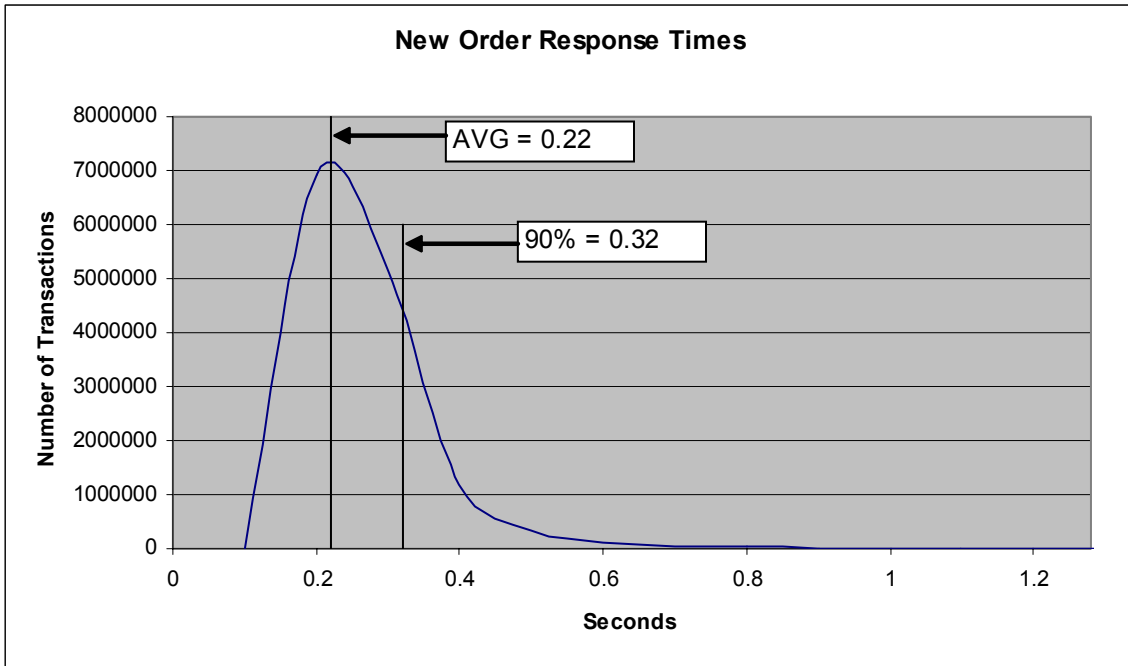


Figure 3. Payment Response Time Distribution

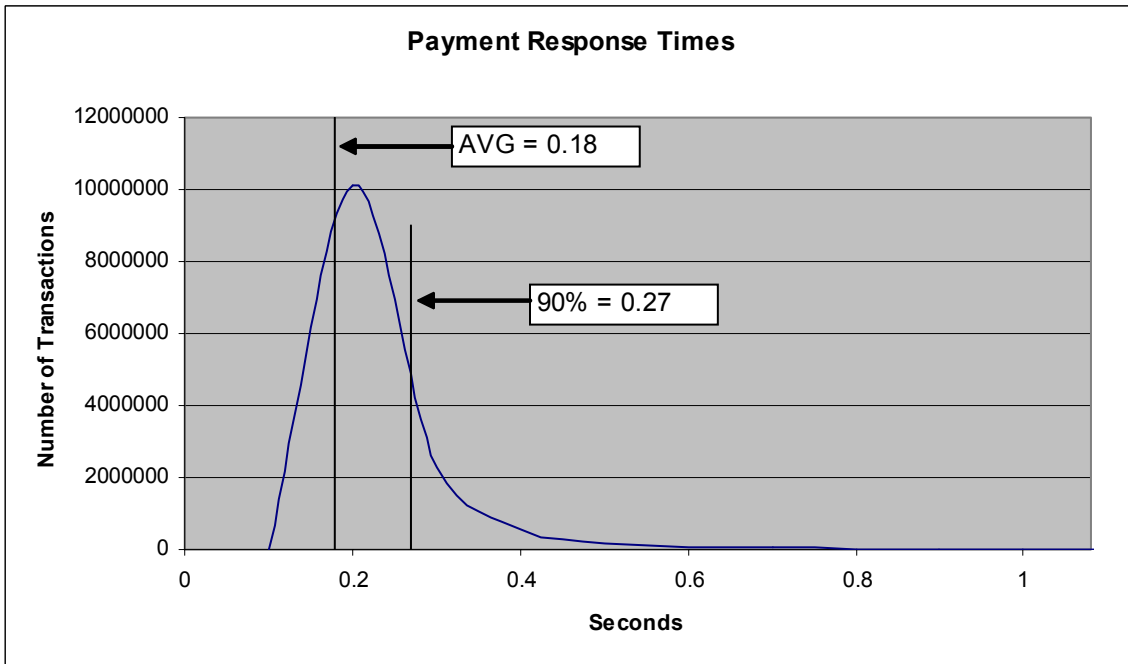


Figure 4. Order Status Response Time Distribution

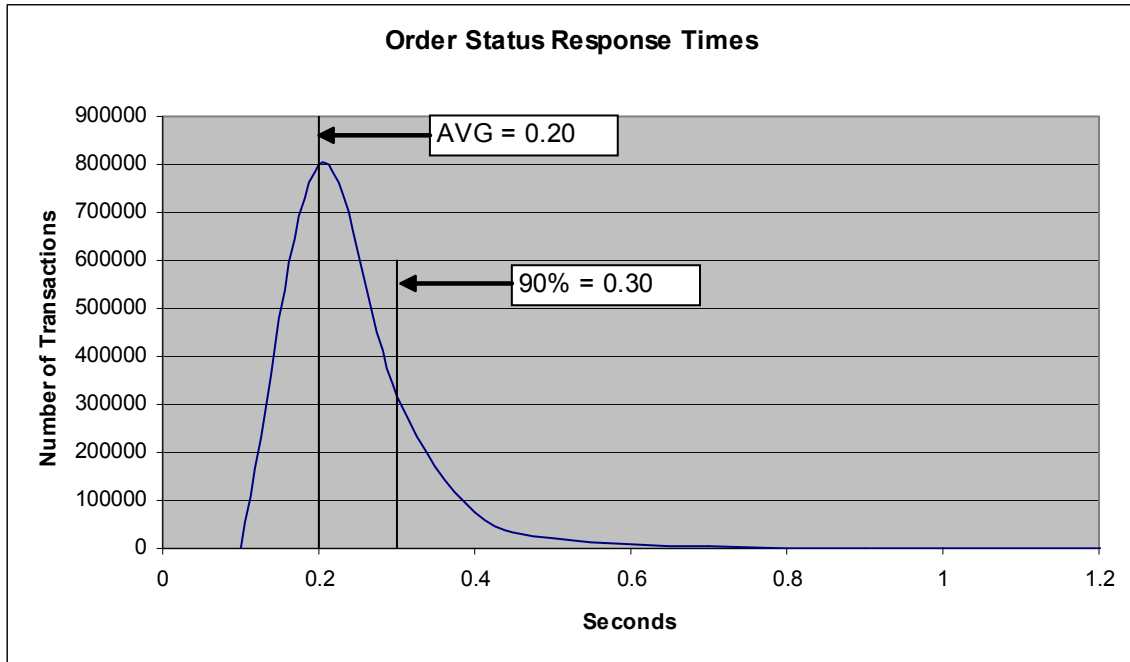


Figure 5. Delivery Response Time Distribution

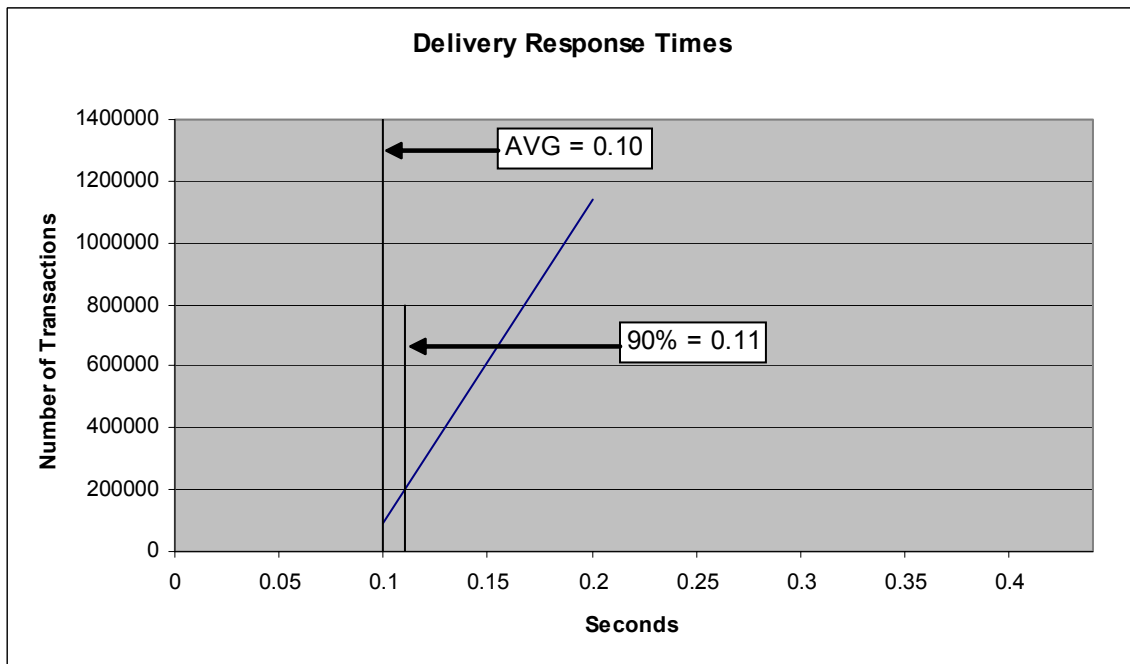


Figure 6. Stock Level Response Time Distribution

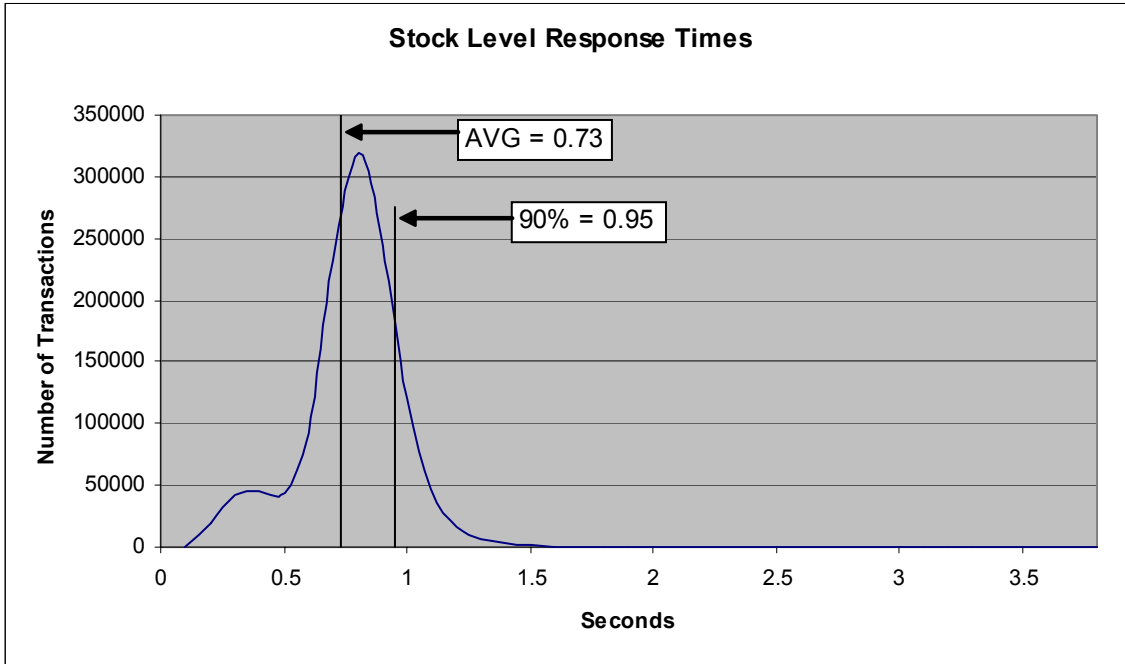


Figure 7. Response Time vs. Throughput

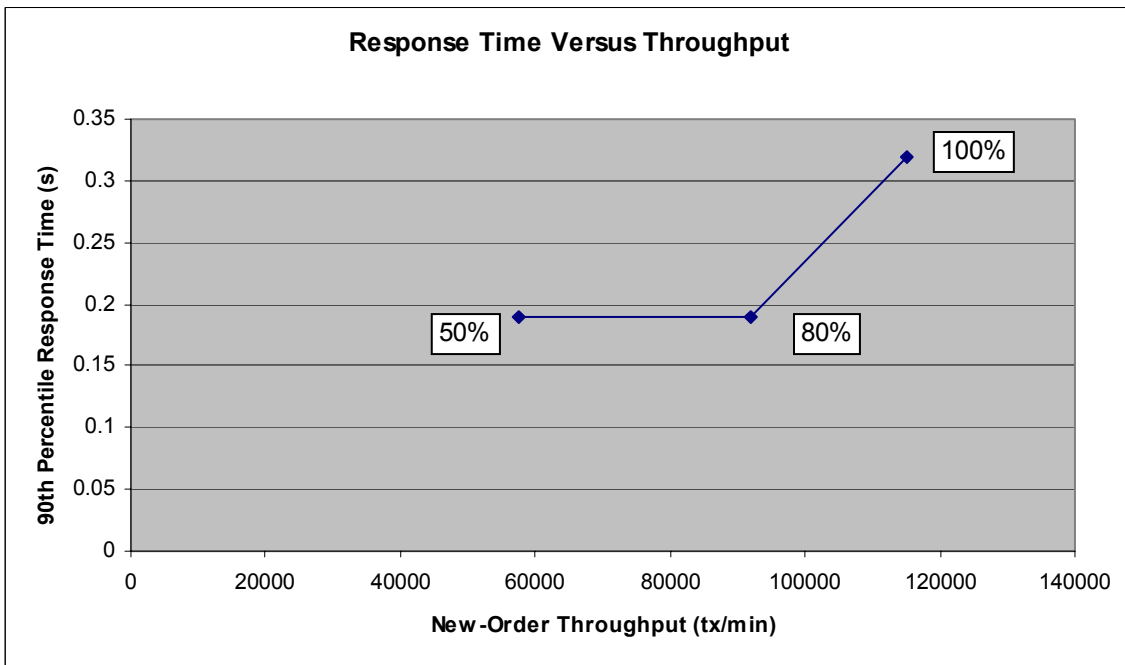


Figure 8. New Order Think Time Distribution

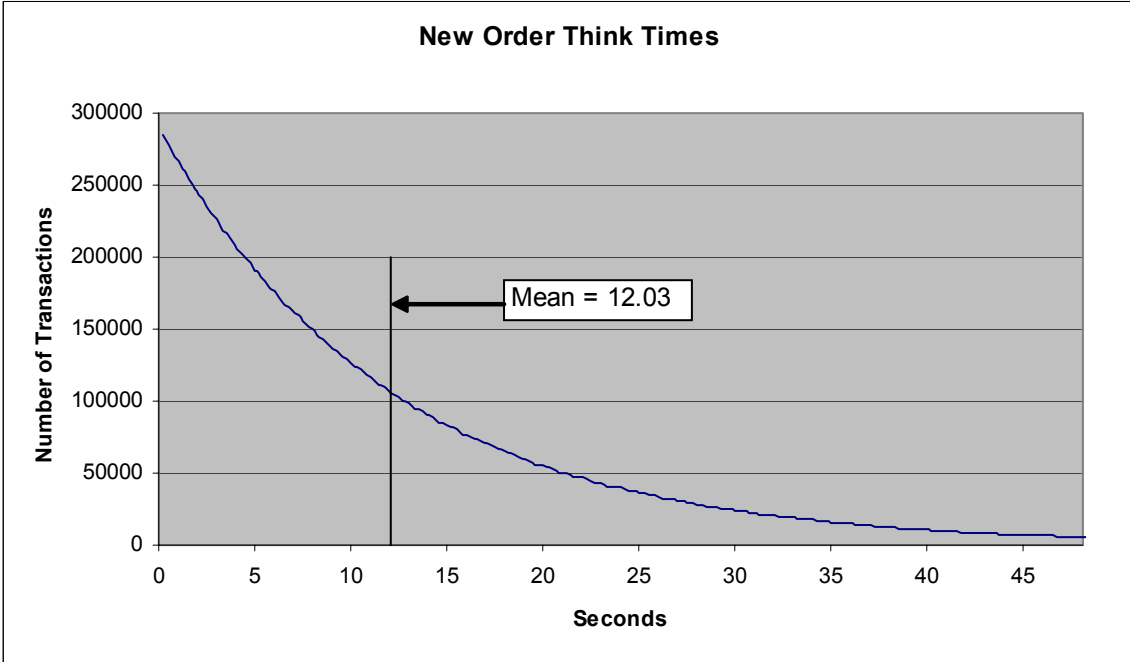
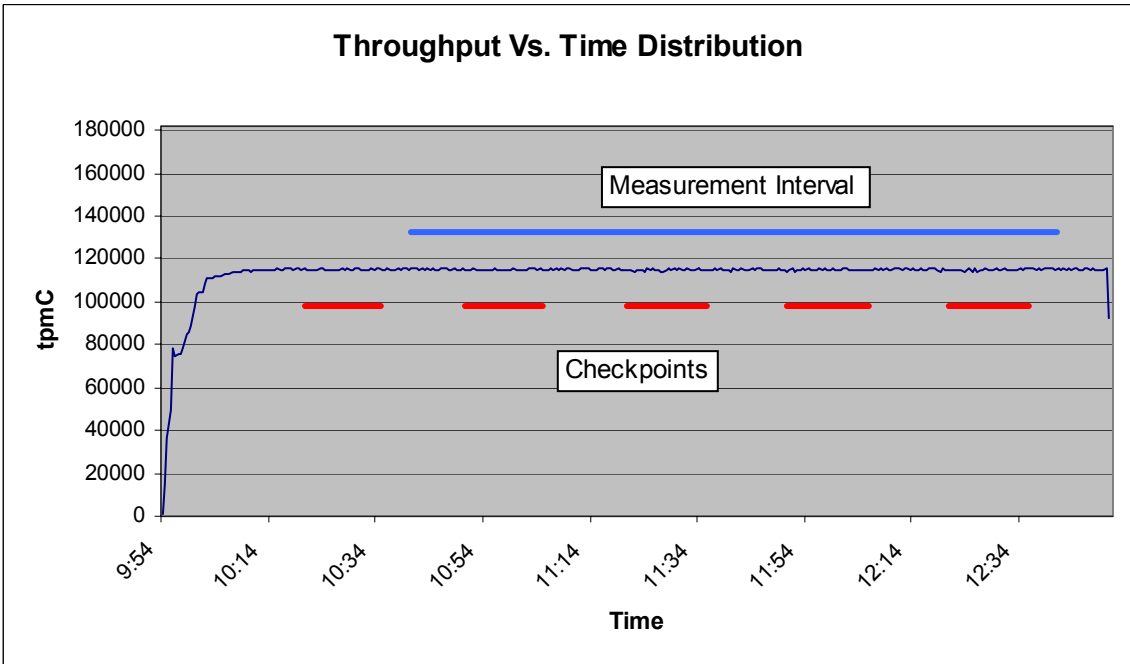


Figure 9. Throughput vs. Time Distribution



Steady State Determination

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

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

Work Performed During Steady State

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

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

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

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

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

To perform checkpoints at specific intervals, the SQL Server *recovery interval* was set to 80 and a script was written to schedule multiple checkpoints at specific intervals. The script included a wait time between each checkpoint equal to 30 minutes so that the checkpoint interval was an integral multiple of the measurement interval, which was 120 minutes. The checkpoint script was started manually after the RTE had all users logged in and the database had achieved steady state.

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

Measurement Period Duration

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

The reported measured interval was exactly 120 minutes long.

Regulation of Transaction Mix

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

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

Transaction Statistics

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

Table 5.5: Transaction Statistics

Statistic		Value
New Order	Home warehouse order lines	99.00%
	Remote warehouse order lines	1.00%
	Rolled back transactions	1.00%
	Average items per order	10.00
Payment	Home warehouse payments	85.00%
	Remote warehouse payments	15.00%
	Accessed by last name	60.02%
Delivery	Skipped transactions (interactive)	0
	Skipped transactions (deferred)	0
Order Status	Accessed by last name	60.09%
Transaction Mix	New Order	44.93%
	Payment	43.04%
	Order status	4.00%
	Delivery	4.02%
	Stock level	4.01%

Checkpoint Count and Location

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

The initial checkpoint was started 27 minutes and 25.62 seconds after the start of the ramp-up. Subsequent checkpoints occurred every 30 minutes. Each checkpoint in the measurement interval lasted approximately 14.5 - 15 minutes. The measurement interval contains four checkpoints.

Checkpoint Duration

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

Checkpoint Start Time	Duration
10:51:06.56 a.m.	14 minutes, 25.11 seconds
11:21:01.60 a.m.	14 minutes, 48.32 seconds
11:50:56.53 a.m.	15 minutes, 1.23 seconds
12:20:51.53 p.m.	14 minutes, 52.71 seconds

Clause 6 Related Items

RTE Descriptions

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

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

Emulated Components

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

The driver system consisted of 6 HP ProLiant servers. These driver machines emulated the users' web browsers.

Functional Diagrams

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

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

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

Networks

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

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

In the tested configuration, 6 driver (RTE) machines were connected through a gigabit Ethernet switch to the client machines at 1Gbps, thus providing the path from the RTEs to the clients. The server (SUT) was connected to the clients through a gigabit Ethernet switch on a separate LAN.

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

Operator Intervention

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

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

Clause 7 Related Items

System Pricing

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

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

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

Availability, Throughput, and Price Performance

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

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

- | | |
|---------------------------------------|----------------------------|
| • Maximum Qualified Throughput | 115,110 tpmC |
| • Price per tpmC | USD \$2.62 per tpmC |
| • Availability | October 15, 2004 |

Country Specific Pricing

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

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

Usage Pricing

For any usage pricing, the sponsor must disclose:

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

The component pricing based on usage is shown below:

- 6 Microsoft Windows 2000 Server
- 1 Microsoft Windows Server 2003, Enterprise Edition
- 1 Microsoft SQL Server 2000 Enterprise Edition SP3 (per processor licensing)
- 1 Microsoft Visual C++
- HP Servers include 3 years of support.

Clause 9 Related Items

Auditor's Report

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

This implementation of the TPC Benchmark C was audited by Tom Sawyer of Performance Metrics, Inc.

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

Availability of the Full Disclosure Report

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

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

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

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

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



PERFORMANCE METRICS INC.
TPC Certified Auditors

October 13, 2004

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

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

Platform: HP ProLiant DL585 G1
Database Manager: Microsoft SQL Server 2000 Enterprise Edition
Operating System: Microsoft Windows 2003 Server, Enterprise Edition SP1
Transaction Manager: Microsoft COM+

Server: HP ProLiant DL585 G1				
CPUs	Memory	Disks	90% Response	tpmC
4 AMD Processors @ 2.4 GHz	Main: 32 GB	295 36GB 8 72GB	0.32	115,110

Client: 6 HP ProLiant DL360-G3		
CPUs	Memory	Disks
1 Intel Xeon™ Processor 6 clients @ 3.06 GHz	Main: 1 GB	1 @ 36GB

PERFORMANCE METRICS INC.
TPC Certified Auditors

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

- The transactions were correctly implemented.
- The database was properly sized and populated.
- The database was properly scaled with 9,160 warehouses, 9,120 of which were used. I verified that the unused warehouses had initial values.
- Input data was generated according to the specified percentages.
- Eight hours of mirrored log space was configured on the measured system.
- Eight hours of dynamic table growth space was configured on the measured system.
- The 60-day space calculation was verified; the measured system had sufficient storage.
- Measurement cycle times included a delay of 0.1 seconds.
- There were 91,200 user contexts present on the system.
- Each group of emulated users started with the same random number seed.
- The NURand constants used for database load and at run time were 123 and 233.
- The steady state portion of the test was 2 hours.
- One checkpoint was taken before the measured interval.
- Four checkpoints were taken during the measured interval.
- The ACID properties were met. The disk-loss tests were performed on a system containing 916 warehouses.
- The system pricing was checked for major components and maintenance.

Auditor Notes:

None

Sincerely,



Tom Sawyer
Auditor

Appendix A: Source Code

The client source code is listed below.

client_utils.c

```
/* client_utils.c
*/

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

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

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

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

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

```
user_id < 10 ? " " : user_id <
100 ? " " : "",
        user_id,
        user_code,
        thread_id,
        thread_id < 10 ? " " : "");
    } else {
        sprintf(buffer, "%s(%2d-%s)",
        user_id < 10 ? " " : "", user_id,
        user_code);
    }
}

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

    va_start(ap, format);

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

    get_prefix(line_prefix);

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

    va_end(ap);
}

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

int get_time_init()
```

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

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

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

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

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

    return(t_diff);
}

/*
 * perfClntDataInit:
 * Initialization for the shared file mapping.
 * return: pointer to the shared memory space
 *
 * This routine creates a named mapped memory section
 * that is used
 * to communicate the TPCC performance data to the
 * extensible
 * counter DLL for NT perfmon.
 */
total_tran_count_t *perfClntDataInit()
{
    HANDLE hMappedObject;
    total_tran_count_t *pClntInfo = NULL;
    TCHAR szMappedObjectName[] =
TEXT("TPCC_CLNT_COUNTER_BLOCK");

    /* create named section for the performance
data */
    hMappedObject =
CreateFileMapping((HANDLE)0xFFFFFFFF,
    NULL,
    PAGE_READWRITE,
```

```

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

```

client_utils.h

```

#ifndef TPCC_CLIENT_UTILS_H
#define TPCC_CLIENT_UTILS_H

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

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

```

```

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

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

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

#define FALSE 0
#define TRUE 1

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

#define CHECK_ENVIRON(str,var) if (str == NULL) {
fprintf(ERROROUT, \
        "%s environment variable is
not defined.\n",var); }

#define CHK_STATUS(st, val, _errMsg)
\
    if(st) {
\
        enc_status.status=val;
\
        strcpy(enc_status.file, __FILE__);
\
        enc_status.line= __LINE__;
\
        enc_status.encinaError = st;
\
        if(_errMsg)strcpy(enc_status.errorMsg,
_errMsg);
\
        if(st!=1) return;
\
    }

#define UTIL_IDENT(a) a

```

```

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

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

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

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

#endif /* TPCC_CLIENT_UTILS_H */

databuf.h
/*

```

```

*   databuf.h
*
* $Revision: 1.1 $
* $Date: 1998/11/06 21:10:11 $
* $Log: databuf.h,v $
* Revision 4.2 95/05/16 10:55:31 10:55:31 tpcc
(TPCC Benchmark)
* Added necessary RCS ident strings
*
* Revision 4.1 95/05/09 15:21:02 15:21:02 strue
(Scott Truesdale)
* New code from Transarc - initial version
*
* Revision 3.2 95/04/03 17:43:09 17:43:09 strue
(Scott Truesdale)
* Changes from Transarc - added sql error handling
in client; cleaned up debug handling with macros;
added check on db paramters via call to server.
*
* Revision 3.1 95/04/03 15:10:30 15:10:30 strue
(Scott Truesdale)
* Base of rev 3 - shipped to transarc
*
*
* $TALog: databuf.h,v $
* Revision 1.1 1998/11/06 21:10:11 dongfeng
* - Move all files common to client and server to
tpcc/common
* directory
* [added by delta dongfeng-23677-TPCC-new-directory-
structures, r1.1]
*
* Revision 1.3 1998/10/22 15:33:04 wenjian
* Make changes to Encina server code to connect with
SQL server and add
* callsql.c and sql directory.
*
* Add ERR_BAD_ITEM_ID, which is returned by SLQnew
and same as INVALID_NEWO
* [from r1.2 by delta wenjian-23529-TPCC-integrate-
with-SQL-server, r1.1]
*
* Revision 1.2 1998/01/23 15:07:47 oz
* - Updated the SP TPCC directory to the latest
files used
* during the SP tpcc audit.
* [from r1.1 by delta oz-20774-TPCC-update-to-
latest-SP-version-11-27, r1.1]
*
* Revision 1.1 1997/04/20 11:57:57 oz
* - This is the code base modified at IBM
Poughkeepsie
* by Ofer Zajicek and Radha Sivaramakrishnan for
the
* SP scaling test for TPCC.
* [added by delta oz-19782-TPCC-add-ibm-sp-code,
r1.1]
*
* Revision 1.31 1995/10/30 19:10:54 oz
* [merge of changes from 1.29 to 1.30 into 1.27]
*

```

```

* Revision 1.30 1995/10/27 15:41:30 oz
* - Modified the tpc-c code to work with the new
informix
* sql code that is in ex_trans.ec
* [from r1.29 by delta oz-16761-TPCC-modify-code-to-
work-with-oracle, r1.1]
*
* Revision 1.27 1995/10/20 18:44:30 ctipper
* [merge of changes from 1.17 to 1.25 into 1.22]
*
* Revision 1.25 1995/10/20 18:15:34 ctipper
* Incorporate changes per code review.
*
* - add DISTRIBUTED_TRAN_FAILED,
TPCC_DB_INFO_PARTIAL, and
* TPCC_DB_INFO_FAILED error codes to tpcc_rc_t
* - got rid of MAX_NUM_SERVERS variables
* [from r1.23 by delta ctipper-16547-TPCC-more-
distributed-trans, r1.2]
*
* Revision 1.23 1995/10/13 17:00:26 ctipper
* This delta encompasses all changes necessary to do
distributed, XA
* transactions with the TPCC benchmark. This
includes the changes
* necessary to build with Informix version 6.
*
* Each client still talks to only one server,
however, if a distributed
* transaction is necessary, the client sends the
request to a different
* interface of that server which then forwards all
or part of the
* request on to the appropriate remote server.
*
* - added new error codes to the tpcc_rc_t
enumeration.
* - defined MAX_NUM_SERVERS to be 10
* [from r1.19 by delta ctipper-16547-TPCC-more-
distributed-trans, r1.1]
*
* Revision 1.19 1995/09/20 21:02:39 oz
* -Corrected code for the payment transaction
* - The distributed case now no longer uses
* stored procedures
* [from r1.18 by delta oz-16547-TPCC-add-
distributed-transactions, r1.2]
*
* Revision 1.18 1995/09/20 17:51:10 oz
* - Added distributed transactions for the new order
and
* payment transaction
*
* - Added new error codes
* [from r1.17 by delta oz-16547-TPCC-add-
distributed-transactions, r1.1]
*
* Revision 1.22 1995/10/02 20:31:07 oz
* - Corrected definition of ERROR()
* [from r1.21 by delta oz-16638-tpcc-modify-
terminal-for-RTE, r1.3]
*
* Revision 1.21 1995/10/02 18:51:45 oz

```

```

* - Added definitions needed for utils.c and
liberty.c
* [from r1.20 by delta oz-16638-tpcc-modify-
terminal-for-RTE, r1.2]
*
* Revision 1.20 1995/10/02 15:52:35 oz
* - Modified the TPC-C benchmark to be compatible
with the RTE.
* - There are now 3 terminal processes:
* emulator: the old terminal process with a
built in
* simple emulator
* curses: An interactive terminal process using
curses
* liberty: An interactive terminal process to be
used with
* the RTE compatible with the liberty
freedom terminal.
*
* - Define TRUE and FALSE only if they are not
already defined.
* (curses.h defines TRUE)
* - Removed READ_TO_DATE and YEAR_TO_SECOND
* - Added term_type_t
* - Added
* GOOD_INPUT (0)
* WRONG_INPUT (10)
* [from r1.17 by delta oz-16638-tpcc-modify-
terminal-for-RTE, r1.1]
*
* Revision 1.17 1995/07/28 15:28:23 oz
* - Added a -null and -no_marshallng option to TPCC
*
* - Added INVALID_TRAN_TYPE return code
* [from r1.16 by delta oz-16070-TPCC-add-null-and-
marshalling-test, r1.1]
*
* Revision 1.16 1995/07/18 17:02:38 oz
* - Added a DCE_ERROR error code
* [from r1.15 by delta oz-15938-TPCC-add-dce-only-
client, r1.1]
*
* Revision 1.15 1995/05/22 19:50:48 shl
* [merge of changes from 1.12 to 1.13 into 1.14]
*
* Revision 1.13 1995/05/18 15:11:27 oz
* [from r1.12 by delta oz-15290-TPCC-incorporate-hp-
drop-of-05-16-95, r1.1]
*
* Revision 1.14 1995/05/22 17:26:35 ctipper
* [merge of changes from 1.5 to 1.9 into 1.11]
*
* [*** log entries omitted ***]
*
*/

#ifndef __TPCC_DATABUF_H__
#define __TPCC_DATABUF_H__

#define I_NAME_LEN 24
#define I_DATA 50
#define W_NAME_LEN 10
#define ADDR_LEN 20

```

```

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

#define YEAR_TO_DATE   1
#define YEAR_TO_SECOND 2

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

#define MAX_STR_LEN    255
#define MAX_OL        15

#ifdef TRUE
#define TRUE          1
#endif
#ifdef FALSE
#define FALSE         0
#endif

#define CANCEL        -1

#define DATETIME_LEN  19

#define D_PER_W       10

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

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

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

typedef enum {
    liberty_term,
    curses_term,
    emulator_term
} term_type_t;

typedef enum {
    GOOD_INPUT = 0,

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

    WRONG_INPUT = 10,

```

```

DISTRIBUTED_TRAN_FAILED = 15,

TPCC_DB_INFO_PARTIAL = 20,
TPCC_DB_INFO_FAILED,

TPCC_ERROR_BEGIN_NEWO = 110,

TPCC_ERROR_DECL_NEWO_SEL_ITEM,
TPCC_ERROR_OPEN_NEWO_SEL_ITEM,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_ITEM,
TPCC_ERROR_FETCH_NEWO_SEL_ITEM,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_ITEM,
TPCC_ERROR_PREP_NEWO_SEL_STCK,
TPCC_ERROR_DECL_NEWO_SEL_STCK,
TPCC_ERROR_OPEN_NEWO_SEL_STCK,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_STCK,
TPCC_ERROR_FETCH_NEWO_SEL_STCK,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_STCK,
TPCC_ERROR_NEWO_SELECT,
TPCC_ERROR_NEWO_UPD_STCK,
TPCC_ERROR_DIST_NEWO_UPD_STCK,
TPCC_ERROR_NEWO_SELECT_2,
TPCC_ERROR_DECL_NEWO_SEL_CUST,
TPCC_ERROR_OPEN_NEWO_SEL_CUST,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_CUST,
TPCC_ERROR_FETCH_NEWO_SEL_CUST,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_CUST,
TPCC_ERROR_DECL_NEWO_SEL_DIST,
TPCC_ERROR_OPEN_NEWO_SEL_DIST,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_DIST,
TPCC_ERROR_FETCH_NEWO_SEL_DIST,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_DIST,
TPCC_ERROR_PREP_NEWO_INS_OL,
TPCC_ERROR_DECL_NEWO_INS_OL,
TPCC_ERROR_OPEN_NEWO_INS_OL,
TPCC_ERROR_OPEN_DIST_NEWO_INS_OL,
TPCC_ERROR_PUT_NEWO_INS_OL,
TPCC_ERROR_PUT_DIST_NEWO_INS_OL,
TPCC_ERROR_DECL_NEWO_SEL_WARE,
TPCC_ERROR_OPEN_NEWO_SEL_WARE,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_WARE,
TPCC_ERROR_FETCH_NEWO_SEL_WARE,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_WARE,
TPCC_ERROR_EXECUTE_NEWO_UPD_INS,
TPCC_ERROR_UPDATE_NEWO_NEXT_OID,
TPCC_ERROR_PREP_NEWO_INS,
TPCC_ERROR_EXECUTE_DIST_NEWO_INS,
TPCC_ERROR_EXECUTE_NEWO_COMMIT,
TPCC_ERROR_ROLLBACK_NEWO,
TPCC_ERROR_REMOTE_OL_SELECT,
TPCC_ERROR_REMOTE_OL_UPDATE,

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

```

```

TPCC_ERROR_EXECUTE_ORDS_COMMIT,

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

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

TPCC_ERROR_OPEN_PAYMENT_CNT_CID = 500,
TPCC_ERROR_FETCH_PAYMENT_CNT_CID,
TPCC_ERROR_OPEN_PAYMENT_SEL_CLAST,
TPCC_ERROR_FETCH_PAYMENT_SEL_CLAST,
TPCC_ERROR_OPEN_PAYMENT_SEL_CID,
TPCC_ERROR_FETCH_PAYMENT_SEL_CID,
TPCC_ERROR_DECL_PAYMENT_SEL_DIST,
TPCC_ERROR_OPEN_PAYMENT_SEL_DIST,
TPCC_ERROR_OPEN_DIST_PAYMENT_SEL_DIST,
TPCC_ERROR_FETCH_PAYMENT_SEL_DIST,
TPCC_ERROR_FETCH_DIST_PAYMENT_SEL_DIST,
TPCC_ERROR_DECL_PAYMENT_SEL_WARE,
TPCC_ERROR_OPEN_PAYMENT_SEL_WARE,
TPCC_ERROR_OPEN_DIST_PAYMENT_SEL_WARE,
TPCC_ERROR_FETCH_PAYMENT_SEL_WARE,
TPCC_ERROR_FETCH_DIST_PAYMENT_SEL_WARE,
TPCC_ERROR_EXECUTE_PAYMENT_UPD_CUST_LAST,
TPCC_ERROR_EXECUTE_PAYMENT_UPD_CUST_ID,
TPCC_ERROR_COMMIT_PAYMENT_UPD_CUST,
TPCC_ERROR_SELECT_PAYMENT_W_YTD,
TPCC_ERROR_SELECT_PAYMENT_D_YTD,
TPCC_ERROR_BEGIN_PAYMENT,
TPCC_ERROR_EXECUTE_PAYMENT_COMMIT,
TPCC_ERROR_PAYMENT_UPD_CUST_BY_NAME,
TPCC_ERROR_PAYMENT_UPD_CUST_BY_ID,
TPCC_ERROR_PAYMENT_UPDATE_DIST,
TPCC_ERROR_PAYMENT_UPDATE_WH,
TPCC_ERROR_PAYMENT_INSERT_HISTORY,
TPCC_ERROR_EXECUTE_PAYMENT_WH_DIST

} tpcc_rc_t;

typedef enum {
    TPCC_DEADLOCK_MSG = 10,
    TPCC_RETRY_MSG
} tpcc_msg_t;

#endif /* __TPCC_DATABUF_H__ */

```

databuf.h.new

```
/*
 * databuf.h
 */

#ifndef __TPCC_DATABUF_H__
#define __TPCC_DATABUF_H__

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

#define YEAR_TO_DATE 1
#define YEAR_TO_SECOND 2

#define MAX_STR_LEN 255
#define MAX_OL 15

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

#define CANCEL -1

/* #define DATETIME_LEN 19 */

#define D_PER_W 10

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

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

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

typedef enum {
liberty_term,
curses_term,
emulator_term
```

```
} term_type_t;

typedef enum {
TPCC_SUCCESS = 0,
GOOD_INPUT = 0,

INVALID_NEWO = 100,
SQL_ERROR = 2,
TRPC_ERROR = 3,
DCE_ERROR = 4,
NO_SUCH_LAST_NAME = 5,
INVALID_TRAN_TYPE = 6,
INVALID_HANDLE = 7,

WRONG_INPUT = 10,

DISTRIBUTED_TRAN_FAILED = 15,

TPCC_DB_INFO_PARTIAL = 20,
TPCC_DB_INFO_FAILED,

TPCC_ERROR_BEGIN_NEWO = 110,

TPCC_ERROR_DECL_NEWO_SEL_ITEM,
TPCC_ERROR_OPEN_NEWO_SEL_ITEM,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_ITEM,
TPCC_ERROR_FETCH_NEWO_SEL_ITEM,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_ITEM,
TPCC_ERROR_PREP_NEWO_SEL_STCK,
TPCC_ERROR_DECL_NEWO_SEL_STCK,
TPCC_ERROR_OPEN_NEWO_SEL_STCK,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_STCK,
TPCC_ERROR_FETCH_NEWO_SEL_STCK,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_STCK,
TPCC_ERROR_NEWO_SELECT,
TPCC_ERROR_NEWO_UPD_STCK,
TPCC_ERROR_DIST_NEWO_UPD_STCK,
TPCC_ERROR_NEWO_SELECT 2,
TPCC_ERROR_DECL_NEWO_SEL_CUST,
TPCC_ERROR_OPEN_NEWO_SEL_CUST,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_CUST,
TPCC_ERROR_FETCH_NEWO_SEL_CUST,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_CUST,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_STCK,
TPCC_ERROR_DECL_NEWO_SEL_DIST,
TPCC_ERROR_OPEN_NEWO_SEL_DIST,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_DIST,
TPCC_ERROR_FETCH_NEWO_SEL_DIST,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_DIST,
TPCC_ERROR_PREP_NEWO_INS_OL,
TPCC_ERROR_DECL_NEWO_INS_OL,
TPCC_ERROR_OPEN_NEWO_INS_OL,
TPCC_ERROR_OPEN_DIST_NEWO_INS_OL,
TPCC_ERROR_PUT_NEWO_INS_OL,
TPCC_ERROR_PUT_DIST_NEWO_INS_OL,
TPCC_ERROR_DECL_NEWO_SEL_WARE,
TPCC_ERROR_OPEN_NEWO_SEL_WARE,
TPCC_ERROR_OPEN_DIST_NEWO_SEL_WARE,
TPCC_ERROR_FETCH_NEWO_SEL_WARE,
TPCC_ERROR_FETCH_DIST_NEWO_SEL_WARE,
TPCC_ERROR_EXECUTE_NEWO_UPD_INS,
TPCC_ERROR_UPDATE_NEWO_NEXT_OID,
TPCC_ERROR_PREP_NEWO_INS,
TPCC_ERROR_EXECUTE_DIST_NEWO_INS,
```

```
TPCC_ERROR_EXECUTE_NEWO_COMMIT,
TPCC_ERROR_ROLLBACK_NEWO,
TPCC_ERROR_REMOTE_OL_SELECT,
TPCC_ERROR_REMOTE_OL_UPDATE,

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

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

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

TPCC_ERROR_OPEN_PAYMENT_CNT_CID = 500,
TPCC_ERROR_FETCH_PAYMENT_CNT_CID,
TPCC_ERROR_OPEN_PAYMENT_SEL_CLAST,
TPCC_ERROR_FETCH_PAYMENT_SEL_CLAST,
TPCC_ERROR_OPEN_PAYMENT_SEL_CID,
TPCC_ERROR_FETCH_PAYMENT_SEL_CID,
TPCC_ERROR_DECL_PAYMENT_SEL_DIST,
TPCC_ERROR_OPEN_PAYMENT_SEL_DIST,
TPCC_ERROR_OPEN_DIST_PAYMENT_SEL_DIST,
TPCC_ERROR_FETCH_PAYMENT_SEL_DIST,
TPCC_ERROR_FETCH_DIST_PAYMENT_SEL_DIST,
TPCC_ERROR_DECL_PAYMENT_SEL_WARE,
TPCC_ERROR_OPEN_PAYMENT_SEL_WARE,
TPCC_ERROR_OPEN_DIST_PAYMENT_SEL_WARE,
TPCC_ERROR_FETCH_PAYMENT_SEL_WARE,
TPCC_ERROR_FETCH_DIST_PAYMENT_SEL_WARE,
TPCC_ERROR_EXECUTE_PAYMENT_UPD_CUST_LAST,
TPCC_ERROR_EXECUTE_PAYMENT_UPD_CUST_ID,
TPCC_ERROR_COMMIT_PAYMENT_UPD_CUST,
TPCC_ERROR_SELECT_PAYMENT_W_YTD,
TPCC_ERROR_SELECT_PAYMENT_D_YTD,
TPCC_ERROR_BEGIN_PAYMENT,
TPCC_ERROR_EXECUTE_PAYMENT_COMMIT,
TPCC_ERROR_PAYMENT_UPD_CUST_BY_NAME,
TPCC_ERROR_PAYMENT_UPD_CUST_BY_ID,
TPCC_ERROR_PAYMENT_UPDATE_DIST,
```

```

TPCC_ERROR_PAYMENT_UPDATE_WH,
TPCC_ERROR_PAYMENT_INSERT_HISTORY,
TPCC_ERROR_EXECUTE_PAYMENT_WH_DIST
} tpcc_rc_t;

typedef enum {
    TPCC_DEADLOCK_MSG = 10,
    TPCC_RETRY_MSG
} tpcc_msg_t;

#endif /* __TPCC_DATABUF_H__ */

```

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 ntdll.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 /pdptype:sept
# ADD LINK32 ntdll.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" /pdptype: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 "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 ntdll.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"
/pdptype:sept
# ADD LINK32 icap.lib ntdll.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"
/pdptype: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 /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
odbccp32.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
odbccp32.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 /1 0x409 /d "_DEBUG"
# ADD RSC /1 0x409 /d "_DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /pdbtype:sept
# ADD LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /out:".bin\tpcc_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
odbccp32.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

```

delivery.h

```

#ifndef TRANSARC_delivery_h
#define TRANSARC_delivery_h

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

#include <encina/c_prologue.h>

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

#ifndef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define delivery_v1_0_c_ifspec
      _delivery_v1_0_c_ifspec

```

```

#define delivery_v1_0_s_ifspec
      _delivery_v1_0_s_ifspec

typedef struct delivery_v1_0_epv {
void (ENCINA_STUB_CALLING *impTPCCDelivery) (
#ifdef IDL_PROTOTYPES

      idl_long_int length,
      idl_char *dataP,
      data_header *headerP,
      trpc_status_t *trpcStatus

#endif

);

} delivery_v1_0_epv_t;

DLLEXPORT void ENCINA_STUB_CALLING impTPCCDelivery (
#ifdef IDL_PROTOTYPES

      idl_long_int length,
      idl_char *dataP,
      data_header *headerP,
      trpc_status_t *trpcStatus

#endif

);

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

#endif

);

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

#endif

);

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

#endif

);

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

#endif

);

```

```

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

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

```

dllldata.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
      /dllldata 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 dllldata 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;
    char szMsg[256];
} 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.c

```

/* FILE: INSTALL.C
 * Microsoft
TPC-C Kit Ver. 4.20.000
 * Copyright
Microsoft, 1999
 * All Rights Reserved
 *
 * not audited
 *
 * PURPOSE: Automated installation
application for TPC-C Web Kit
 * Contact: Charles Levine
(clevine@microsoft.com)
 * Change history:
 * 4.20.000 - added COM installation
steps
 */

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

#include "resource.h"

#define WM_INITTEXT WM_USER+100

HICON hIcon;
HINSTANCE hInst;

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

// TPC-C registry settings
TPCCREGISTRYDATA Reg;

static int iPoolThreadLimit;
static int iThreadTimeout;
static int iListenBackLog;

```

```

static int iAcceptExOutstanding;

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

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

BOOL install_com(char *szDllPath);

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

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

    hInst = hInstance;

    InitCommonControls();

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

    iRc = DialogBox(hInstance,
MAKEINTRESOURCE(IDD_DIALOG4), GetDesktopWindow(),
LicenseDlgProc);
    if ( iRc )
    {
        iRc = DialogBox(hInstance,
MAKEINTRESOURCE(IDD_DIALOG1), GetDesktopWindow(),
MainDlgProc);
        if ( iRc )

```

```

{
    DialogBoxParam(hInstance,
MAKEINTRESOURCE(IDD_DIALOG2), GetDesktopWindow(),
UpdatedDlgProc, (LPARAM)iRc);
}

DestroyIcon(hIcon);
return 0;
}

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

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

                SetDlgItemText(hwnd, IDC_LICENSE, (const
char *)pDst);
                free(pDst);
            }
            else
                SetDlgItemText(hwnd, IDC_LICENSE, (const
char *)pSrc);
            return TRUE;
        case WM_DESTROY:
            DeleteObject(hFont);
            return TRUE;
    }
}

```

```

        case WM_COMMAND:
            if ( wParam == IDOK )
                EndDialog(hwnd, TRUE);
            if ( wParam == IDCANCEL )
                EndDialog(hwnd, FALSE);
            default:
                break;
        }
        return FALSE;
    }

BOOL CALLBACK UpdatedDlgProc(HWND hwnd, UINT uMsg,
WPARAM wParam, LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
            switch(lParam)
            {
                case 1:
                case 2:
                    SetDlgItemText(hwnd, IDC_RESULTS, "TPC-C
Web Client Installed");
                    break;
            }
            return TRUE;
        case WM_COMMAND:
            if ( wParam == IDOK )
                EndDialog(hwnd, TRUE);
            break;
            default:
                break;
        }
        return FALSE;
    }
}

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

    switch(uMsg)
    {
        case WM_INITDIALOG:
            GlobalMemoryStatus(&memoryStatus);
            iMaxPhysicalMemory =
(memoryStatus.dwTotalPhys/ 1048576);

```

```

        if (
GetInstallPath(szDllPath) )
    {
        MessageBox(hwnd, "Error internet service
inetsrv is not installed.", NULL, MB_ICONSTOP |
MB_OK);
        EndDialog(hwnd, FALSE);
        return TRUE;
    }
    // set default values
    ZeroMemory( &Reg,
sizeof(Reg) );
    Reg.dwNumberOfDeliveryThreads = 4;
    Reg.dwMaxConnections =
100;
    Reg.dwMaxPendingDeliveries = 100;
    Reg.eDB_Protocol =
DBLIB;
    Reg.eTxnMon = None;
    strcpy(Reg.szDbServer,
"");
    strcpy(Reg.szDbName,
"tpcc");
    strcpy(Reg.szDbUser,
"sa");
    strcpy(Reg.szDbPassword,
"");
    iPoolThreadLimit =
iMaxPhysicalMemory * 2;
    iThreadTimeout = 86400;
    iListenBackLog = 15;
    iAcceptExOutstanding =
40;

    ReadTPCCRegistrySettings( &Reg );
    ReadRegistrySettings();

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

    GetVersionInfo(szDllPath, szExePath);
    wprintf(szTmp,
"Version %d.%2d.%3d", versionExeMS, versionExeMM,
versionExeLS);
    SetDlgItemText(hwnd,
IDC_VERSION, szTmp);

    SetDlgItemText(hwnd,
IDC_PATH, szDllPath);

    SetDlgItemText(hwnd,
ED_DB_SERVER, Reg.szDbServer);
    SetDlgItemText(hwnd,
ED_DB_USER_ID, Reg.szDbUser);

```

```

        SetDlgItemText(hwnd,
ED_DB_PASSWORD, Reg.szDbPassword);
        SetDlgItemText(hwnd,
ED_DB_NAME, Reg.szDbName);

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

        CheckDlgButton(hwnd,
IDC_DBLIB, 0);
        CheckDlgButton(hwnd,
IDC_ODBC, 0);
        if ( Reg.eDB_Protocol
== DBLIB )
            CheckDlgButton(hwnd, IDC_DBLIB, 1);
        else
            CheckDlgButton(hwnd, IDC_ODBC, 1);

        // check OS version
        level for COM. Must be at least Windows 2000
        VI.dwOSVersionInfoSize
= sizeof(VI);
        GetVersionEx( &VI );
        if (VI.dwMajorVersion <
5)
        {
            HWND hDlg =
GetDlgItem( hwnd, IDC_TM_MTS );
            EnableWindow(
hDlg, 0 ); // disable COM option
            if
(Reg.eTxnMon == COM)
                Reg.eTxnMon = None;
        }

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

```

```

CheckDlgButton(hwnd, IDC_TM_NONE, 1);
    break;
    case TUXEDO:
        break;
CheckDlgButton(hwnd, IDC_TM_TUXEDO, 1);
    break;
    case ENCINA:
        break;
CheckDlgButton(hwnd, IDC_TM_ENCINA, 1);
    break;
    case COM:
        break;
CheckDlgButton(hwnd, IDC_TM_MTS, 1);
    break;
    }
    return TRUE;
case WM_PAINT:
    if ( IsIconic(hwnd) )
    {
        BeginPaint(hwnd, &ps);
        DrawIcon(ps.hdc, 0, 0, hIcon);
        EndPaint(hwnd, &ps);
    }
    return TRUE;
    case WM_COMMAND:
        if ( HIWORD(wParam) ==
BN_CLICKED )
        {
            LOWORD(wParam) )
            {
                switch(
                {
                    case IDC_DBLIB:
                        return TRUE;
                    case IDC_ODBC:
                        return TRUE;
                    case IDOK:
                        ProcessOK(hwnd, szDllPath);
                        return TRUE;
                    case IDCANCEL:
                        EndDialog(hwnd, FALSE);
                        return TRUE;
                    default:
                        return FALSE;
                }
            }
        }
    }
}

```

```

        break;
        default:
            break;
    }
    return FALSE;
}
static void ProcessOK(HWND hwnd, char *szDllPath)
{
    int         d;
    HWND        hDlg;
    int         rc;
    char        szFullName[256];
    char        szErrTxt[128];
    // read settings from dialog
    Reg.dwNumberOfDeliveryThreads =
GetDlgItemInt(hwnd, ED_THREADS, &d, FALSE);
    Reg.dwMaxConnections = GetDlgItemInt(hwnd,
ED_MAXCONNECTION, &d, FALSE);
    Reg.dwMaxPendingDeliveries =
GetDlgItemInt(hwnd, ED_MAXDELIVERIES, &d, FALSE);
    GetDlgItemText(hwnd, ED_DB_SERVER,
Reg.szDbServer, sizeof(Reg.szDbServer));
    GetDlgItemText(hwnd, ED_DB_USER_ID,
Reg.szDbUser, sizeof(Reg.szDbUser));
    GetDlgItemText(hwnd, ED_DB_PASSWORD,
Reg.szDbPassword, sizeof(Reg.szDbPassword));
    GetDlgItemText(hwnd, ED_DB_NAME,
Reg.szDbName, sizeof(Reg.szDbName));
    if ( IsDlgButtonChecked(hwnd, IDC_DBLIB) )
    {
        Reg.eDB_Protocol = DBLIB;
        rc = 1;
    }
    else if ( IsDlgButtonChecked(hwnd,
IDC_ODBC) )
    {
        Reg.eDB_Protocol = ODBC;
        rc = 2;
    }
    if ( IsDlgButtonChecked(hwnd, IDC_TM_NONE)
)
        Reg.eTxnMon = None;
    else if ( IsDlgButtonChecked(hwnd,
IDC_TM_TUXEDO) )
        Reg.eTxnMon = TUXEDO;
    else if ( IsDlgButtonChecked(hwnd,
IDC_TM_MTS) )
        Reg.eTxnMon = COM;
    else if ( IsDlgButtonChecked(hwnd,
IDC_TM_ENCINA) )
        Reg.eTxnMon = ENCINA;
    iPoolThreadLimit = GetDlgItemInt(hwnd,
ED_IIS_MAX_THREAD_POOL_LIMIT, &d, FALSE);
    iThreadTimeout = GetDlgItemInt(hwnd,
ED_IIS_THREAD_TIMEOUT, &d, FALSE);
}

```

```

    iListenBackLog = GetDlgItemInt(hwnd,
ED_IIS_LISTEN_BACKLOG, &d, FALSE);
    iAcceptExOutstanding = GetDlgItemInt(hwnd,
ED_WEB_SERVICE_BACKLOG_QUEUE_SIZE, &d, FALSE);
    ShowWindow(hwnd, SW_HIDE);
    hDlg = CreateDialog(hInst,
MAKEINTRESOURCE(IDD_DIALOG3), hwnd, CopyDlgProc);
    ShowWindow(hDlg, SW_SHOWNA);
    UpdateDialog(hDlg);
    // write binaries to inetpub\wwwroot
    rc = CopyFiles(hDlg, szDllPath);
    if ( !rc )
    {
        ShowWindow(hwnd, SW_SHOWNA);
        DestroyWindow(hDlg);
        strcpy( szErrTxt, "Error(s)
occured when creating " );
        strcat( szErrTxt, szLastFileName
);
        MessageBox(hwnd, szErrTxt, NULL,
MB_ICONSTOP | MB_OK);
        EndDialog(hwnd, 0);
        return;
    }
    // update registry
    SetDlgItemText(hDlg, IDC_STATUS, "Updating
Registry.");
    SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
    UpdateDialog(hDlg);
    WriteRegistrySettings(szDllPath);
    // register com proxy stub
    strcpy(szFullName, szDllPath);
    strcat(szFullName, "tpcc_com_ps.dll");
    if (!RegisterDLL(szFullName))
    {
        ShowWindow(hwnd, SW_SHOWNA);
        DestroyWindow(hDlg);
        strcpy( szErrTxt, "Error occured
when registering " );
        strcat( szErrTxt, szFullName );
        MessageBox(hwnd, szErrTxt, NULL,
MB_ICONSTOP | MB_OK);
        EndDialog(hwnd, 0);
        return;
    }
    // if using COM
    if (Reg.eTxnMon == COM)
    {
        SetDlgItemText(hDlg, IDC_STATUS,
"Configuring COM.");
        SendDlgItemMessage(hDlg,
IDC_PROGRESS1, PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);
        if (install_com(szDllPath))

```

```

        {
            ShowWindow(hwnd,
SW_SHOWNA);
            DestroyWindow(hDlg);
            strcpy( szErrTxt,
"Error occured when configuring COM settings." );
            MessageBox(hwnd,
szErrTxt, NULL, MB_ICONSTOP | MB_OK);
            EndDialog(hwnd, 0);
            return;
        }
    }
    Sleep(100);

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

    EndDialog(hwnd, rc);
    return;
}

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

    if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SYSTEM\\CurrentControlSet\\Services\\Inetinfo\\Parameters", 0, KEY_READ, &hKey) == ERROR_SUCCESS )
    {
        size = sizeof(iPoolThreadLimit);
        if ( RegQueryValueEx(hKey,
"PoolThreadLimit", 0, &type, (char
*)&iPoolThreadLimit, &size) == ERROR_SUCCESS )
            if ( !iPoolThreadLimit )

                iPoolThreadLimit = iMaxPhysicalMemory * 2;

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

                iThreadTimeout = 86400;

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

                iListenBackLog = 15;

        RegCloseKey(hKey);
    }

    if ( RegOpenKeyEx(HKEY_LOCAL_MACHINE,
"SYSTEM\\CurrentControlSet\\Services\\W3SVC\\Parameters", 0, KEY_READ, &hKey) == ERROR_SUCCESS )

```

```

        {
            size =
sizeof(iAcceptExOutstanding);
            if ( RegQueryValueEx(hKey,
"AcceptExOutstanding", 0, &type, (char
*)&iAcceptExOutstanding, &size) == ERROR_SUCCESS )
                if (
!iAcceptExOutstanding )

                    iAcceptExOutstanding = 40;

            RegCloseKey(hKey);
        }
    }

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

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

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

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

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

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

```

```

        RegSetValueEx(hKey, "DbPassword",
0, REG_SZ, Reg.szDbPassword,
strlen(Reg.szDbPassword)+1);

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

        RegFlushKey(hKey);
        RegCloseKey(hKey);
    }

    if (
(iRc=RegCreateKeyEx(HKEY_LOCAL_MACHINE,
"SYSTEM\\CurrentControlSet\\Services\\Inetinfo\\Parameters", 0, NULL, REG_OPTION_NON_VOLATILE,
KEY_ALL_ACCESS, NULL, &hKey, &dwDisposition)) ==
ERROR_SUCCESS )
    {
        RegSetValueEx(hKey,
"PoolThreadLimit", 0, REG_DWORD, (char
*)&iPoolThreadLimit, sizeof(iPoolThreadLimit));
        RegSetValueEx(hKey,
"ThreadTimeout", 0, REG_DWORD, (char
*)&iThreadTimeout, sizeof(iThreadTimeout));
        RegSetValueEx(hKey,
"ListenBackLog", 0, REG_DWORD, (char
*)&iListenBackLog, sizeof(iListenBackLog));

        RegFlushKey(hKey);
        RegCloseKey(hKey);
    }

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

        RegFlushKey(hKey);
        RegCloseKey(hKey);
    }

    return;
}

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

```



```

        return FALSE;
    }
}

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

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

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

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

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

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

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

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

    CloseHandle(hFile);

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

```

```

static int CopyFiles(HWND hDlg, char *szDllPath)
{
    BOOL bSvcRunning;

    bSvcRunning = CheckWWWService();
    if ( bSvcRunning )
    {
        SetDlgItemText(hDlg, IDC_STATUS,
"Stopping Web Service.");
        SendDlgItemMessage(hDlg,
IDC_PROGRESS1, PBM_STEPIT, 0, 0);
        UpdateDialog(hDlg);

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

    SetDlgItemText(hDlg, IDC_STATUS, "Copying
Files...");
    SendDlgItemMessage(hDlg, IDC_PROGRESS1,
PBM_STEPIT, 0, 0);
    UpdateDialog(hDlg);

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

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

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

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

    // install tpcc_tuxedo.dll

```

```

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

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

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

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

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

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

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

```

```

        return 1;
    }

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

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

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

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

```

```

    versionDllMS = 0;
    versionDllLS = 0;
    if ( _access(szDLLPath, 00) == 0 )
    {
        dwSize =
GetFileVersionInfoSize(szDLLPath, &d);
        if ( dwSize )
        {
            ptr = (char
*)malloc(dwSize);
            GetFileVersionInfo(szDLLPath, 0, dwSize,
ptr);
            VerQueryValue(ptr,
"\\",&vs, &dwBytes);
            versionDllMS = vs-
>dwProductVersionMS;
            versionDllLS = vs-
>dwProductVersionLS;
        }
        versionExeMS = 0x7FFF;
        versionExeLS = 0x7FFF;
        dwSize = GetFileVersionInfoSize(szExePath,
&d);
        if ( dwSize )
        {
            ptr = (char *)malloc(dwSize);
            GetFileVersionInfo(szExePath, 0,
dwSize, ptr);
            VerQueryValue(ptr, "\\",&vs,
&dwBytes);
            versionExeMS = vs-
>dwProductVersionMS;
            versionExeLS = LOWORD(vs-
>dwProductVersionLS);
            versionExeMM = HIWORD(vs-
>dwProductVersionLS);
            free(ptr);
        }
        return;
    }

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

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

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

```

```

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

    CloseServiceHandle(schService);
    return TRUE;

ServiceNotRunning:
    CloseServiceHandle(schService);
    return FALSE;
}

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

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

    if (! StartService(schService, 0, NULL) )
        goto StartWWWWebErr;
    //start Service pending, Check the status
until the service is running.
    if (! QueryServiceStatus(schService,
&ssStatus) )
        goto StartWWWWebErr;
    while( ssStatus.dwCurrentState !=
SERVICE_RUNNING)
    {
        dwOldCheckPoint =
ssStatus.dwCheckPoint;
        //Save the current checkpoint.
        Sleep(ssStatus.dwWaitHint);

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

    if (ssStatus.dwCurrentState ==
SERVICE_RUNNING)

```

```

        goto StartWWWebErr;

    CloseServiceHandle(schService);
    return TRUE;

StartWWWebErr:
    CloseServiceHandle(schService);
    return FALSE;
}

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

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

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

    if ( !ControlService(schService,
    SERVICE_CONTROL_STOP, &ssStatus) )
        goto StopWWWebErr;

    //start Service pending, Check the status
    until the service is running.
    if (! QueryServiceStatus(schService,
    &ssStatus) )
        goto StopWWWebErr;
    while( ssStatus.dwCurrentState ==
    SERVICE_RUNNING)
    {
        dwOldCheckPoint =
    ssStatus.dwCheckPoint;
        //Save the current checkpoint.
        Sleep(ssStatus.dwWaitHint);

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

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

    CloseServiceHandle(schService);
    return TRUE;
}

```

```

StopWWWebErr:
    CloseServiceHandle(schService);
    return FALSE;
}

static void UpdateDialog(HWND hDlg)
{
    MSG msg;

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

```

install.dsp

```

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

# TARGETTYPE "Win32 (x86) Application" 0x0101

CFG=install - Win32 Release
!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 "install.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 "install.mak" CFG="install - Win32
Release"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "install - Win32 Release" (based on "Win32
(x86) Application")
!MESSAGE "install - Win32 Debug" (based on "Win32
(x86) Application")
!MESSAGE

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

```

```

RSC=rc.exe

!IF "$(CFG)" == "install - 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 /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /c
# ADD CPP /nologo /W3 /GX /O2 /D "WIN32" /D "NDEBUG"
/D "_WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "NDEBUG" /win32
# ADD MTL /nologo /D "NDEBUG" /mktyplib203 /win32
# ADD BASE RSC /1 0x409 /d "NDEBUG"
# ADD RSC /1 0x409 /d "NDEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbc32.lib /nologo /subsystem:windows /machine:I386
# ADD LINK32 version.lib comctl32.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 /machine:I386
/out:"..\bin\install.exe"

!ELSEIF "$(CFG)" == "install - 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 /W3 /Gm /GX /Zi /Od /D "WIN32"
/D "DEBUG" /D "_WINDOWS" /YX /c
# ADD CPP /nologo /W3 /Gm /GX /ZI /Od /D "WIN32" /D
"DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "DEBUG" /win32
# ADD MTL /nologo /D "DEBUG" /mktyplib203 /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 /debug
/machine:I386
# ADD LINK32 version.lib comctl32.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 /debug /machine:I386
/out:".bin\install.exe"

!ENDIF

# Begin Target

# Name "install - Win32 Release"
# Name "install - Win32 Debug"
# Begin Group "Source Files"

# PROP Default_Filter
"cpp;c;cx;rc;def;r;odl;hpj;bat;for;f90"
# Begin Source File

SOURCE=.\src\install.c
# End Source File
# Begin Source File

SOURCE=.\src\install.rc
# ADD BASE RSC /l 0x409 /i "src"
# ADD RSC /l 0x409 /i "src" /i ".\src"
# End Source File
# Begin Source File

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

# PROP Default_Filter "h;hpp;hxx;hm;inl;fi;fd"
# End Group
# Begin Group "Resource Files"

# PROP Default_Filter
"ico;cur;bmp;dlg;rc2;rct;bin;cnt;rtf;gif;jpg;jpeg;jpe"
"
# Begin Source File

SOURCE=.\SRC\ICON1.ICO
# End Source File
# Begin Source File

SOURCE=.\SRC\ICON2.ICO
# End Source File
# End Group
# Begin Source File

SOURCE=.\SRC\LICENSE.TXT
# End Source File
# Begin Source File

SOURCE=.\isapi_dll\bin\tpcc.dll
# End Source File

```

```

# Begin Source File

SOURCE=..\tm_com_dll\bin\tpcc_com.dll
# End Source File
# Begin Source File

SOURCE=..\tpcc_com_all\bin\tpcc_com_all.dll
# End Source File
# Begin Source File

SOURCE=..\tpcc_com_ps\bin\tpcc_com_ps.dll
# End Source File
# Begin Source File

SOURCE=..\db_dblib_dll\bin\tpcc_dblib.dll
# End Source File
# Begin Source File

SOURCE=..\db_odbc_dll\bin\tpcc_odbc.dll
# End Source File
# Begin Source File

SOURCE=..\tm_tuxedo_dll\bin\tpcc_tuxedo.dll
# End Source File
# Begin Source File

SOURCE=..\tuxapp\bin\tuxapp.exe
# End Source File
# End Target
# End Project

```

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
Successful", IDC_RESULTS,7,22,
102,18,0,WS_EX_CLIENTEDGE
    ICON
IDI_ICON2, IDC_STATIC,50,7,18,20,SS_REALSIZEIMAGE,
    WS_EX_TRANSPARENT
END
IDD_DIALOG3 DIALOG 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,"mctls_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
END

```

```

IDD_DIALOG4, DIALOG
BEGIN
  LEFTMARGIN, 7
  RIGHTMARGIN, 278
  TOPMARGIN, 7
  BOTTOMMARGIN, 195
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"

#endifdef _MAC

```

```

////////////////////////////////////
//
// Version
//
VS_VERSION_INFO VERSIONINFO
FILEVERSION 0,4,20,0
PRODUCTVERSION 0,4,20,0
FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
FILEFLAGS 0x1L
#else
FILEFLAGS 0x0L
#endif
FILEOS 0x40004L
FILETYPE 0x1L
FILESUBTYPE 0x0L
BEGIN
  BLOCK "StringFileInfo"
  BEGIN
    BLOCK "040904b0"
    BEGIN
      VALUE "Comments", "TPC-C Web Client
Installer\0"
      VALUE "CompanyName", "Microsoft\0"
      VALUE "FileDescription", "install\0"
      VALUE "FileVersion", "0, 4, 20, 0\0"
      VALUE "InternalName", "install\0"
      VALUE "LegalCopyright", "Copyright ©
1999\0"
      VALUE "OriginalFilename", "install.exe\0"
      VALUE "ProductName", "Microsoft
install\0"
      VALUE "ProductVersion", "0, 4, 20, 0\0"
    END
  END
  BLOCK "VarFileInfo"
  BEGIN
    VALUE "Translation", 0x409, 1200
  END
END

#endif // !_MAC

////////////////////////////////////
//
// LICENSE
//
IDR_LICENSE1          LICENSE DISCARDABLE
"license.txt"

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

```

```

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

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

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

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

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

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

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

```



```

        // 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=cl.exe
MTL=midl.exe
RSC=rc.exe

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

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 0
# PROP BASE Output_Dir "Release"
# PROP BASE Intermediate_Dir "Release"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 0
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MT /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MD /W3 /GX /O2 /D "NDEBUG" /D
"WIN32" /D "_WINDOWS" /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 ..\common\txnlog\lib\release\rtetime.lib
..\common\txnlog\lib\release\spinlock.lib
..\common\txnlog\lib\release\error.lib
..\common\txnlog\lib\release\txnlog.lib wsock32.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
/nodefaultlib:"LIBCMT" /out:".bin\tpcc.dll"
# SUBTRACT LINK32 /nodefaultlib

!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 /l 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 wsock32.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:"LIBCMDT" /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_dll"
# PROP BASE Intermediate_Dir "isapi_dll"
# 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 /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\release\txnlog.lib wsock32.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

```

license.txt

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MICROSOFT TPC-C BENCHMARK KIT

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Methods.h

```

/*      FILE:          METHODS.H
 *
 *      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 =
        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
    STDMETHODCALLTYPE CanBePooled() { return
m_bCanBePooled; }
    STDMETHODCALLTYPE Activate() { return S_OK; }
    // we don't support COM Services
    transactions (no enlistment)
    STDMETHODCALLTYPE Deactivate() { /*
nothing to do */ }

// IObjectConstruct
    STDMETHODCALLTYPE Construct(IDispatch * pUnk);

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

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

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

    BEGIN_COM_MAP(CTPCC)
        COM_INTERFACE_ENTRY2(IUnknown,
CComObjectRootEx)

```

```

        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;}
};

```

mon_client.c

```

/*
 *      mon_client.c
 *
 */

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

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

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

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

#define INT_ENV_VALUE(var, default) \

```

```

(var = getenv(#var) ? atoi(getenv(#var)) : default)
#define PRE_RPC_WORK(headerP, tran, sub_tran) \
    if (iStatsFrequency > 0) \
        pre_rpc(headerP, tran, sub_tran); \
    else \
        (headerP->stats = 0;
#define POST_RPC_WORK(headerP, tran) \
    if (iStatsFrequency > 0) \
        post_rpc(headerP, tran)

/* CALTPCC
 * Macro to sends 1 RPC and then handles any errors.
 *
 * The macro takes the name of the RPC (e.g.,
NewOrder)
 * and makes the RPC by calling the appropriate
function
 * (e.g., impTPCCNewOrder).
 */
#define
CALLTPCC(name,length,dataP,header,trpcStatusP)
\
\
UTIL_CONCAT(impTPCC,name)(length,dataP,&header,trpcStat
atusP);
\
    if (*(trpcStatusP)) {
\
        char msg[100];
\
        sprintf(msg, "TRPC error during impTPCC%s",
UTIL_STRING(name));
\
        header.returncode = TRPC_ERROR;
\
        encina_error_message(msg, *(trpcStatusP));
\
    } else if ((header.returncode != TPCC_SUCCESS) &&
\
        (header.returncode != INVALID_NEWO)) {
\
        char msg[100];
\
        sprintf(msg, "App error during impTPCC%s: ",
UTIL_STRING(name));
\
        encina_error_message(msg, header.returncode);
\
    }
\
}
\
}
\
/*
 * pre_rpc -- For debug purposes
 *
 * Called before an RPC is made.
 * Set the state of the thread and keep track of the
time the RPC is sent.
 * This is used by the Background thread to report
the state of the client.
 */

```

```

static void pre_rpc(data_header *headerP,
                    int tran_type,
                    int sub_tran_type)
{
    if (iStatsFrequency < 1) {
        headerP->stats = 0;
    } else {
        int num;
        num = ++ (pClientInfo->tran[tran_type].num);
        headerP->stats = (num % iStatsFrequency==0) ?
1 : 0;
        if (headerP->stats)
            /* measure the time for RT */
            get_local_time(&headerP->clnt_start);
        headerP->srv_start.sec = 0; /*
initialize the server time */
        headerP->srv_start.usec = 0;
        headerP->srv_end.sec = 0;
        headerP->srv_end.usec = 0;
    }
}
\
/*
 * post_rpc
 *
 * Called when the RPC returns from the server
 *
 * Keeps track of the client response time and the
server response time
 * as well as the state of the thread. This is used
by the background
 * debug thread to report the state of the client
 */
static void post_rpc(data_header *headerP,
                    int tran_type)
{
    double time_diff;
    int tran_failed;
    struct timeval start_time, end_time;

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

    /* Store the info for each client.
 * Note: Since we don't use mutex for performance
reason, pClientInfo
 * may not be accurate if more than one
thread work on the same
 * data at a same time. But this should
give us reasonable info.
 */
    if ((headerP->returncode == TPCC_SUCCESS) ||
        (headerP->returncode == INVALID_NEWO)) {
        tran_failed = 0;
    } else {
        pClientInfo->tran[tran_type].errs ++;
        pClientInfo->errors ++;
        tran_failed = 1;
    }
}

```

```

    }
    if (headerP->stats && tran_type <= MAX_TRAN_TYPE
&& tran_type > 0
&& !tran_failed) {
        /* update total server round trip response
time */
        start_time.tv_sec = headerP-
>srv_start.sec;
        start_time.tv_usec = headerP-
>srv_start.usec;
        end_time.tv_sec = headerP->srv_end.sec;
        end_time.tv_usec = headerP->srv_end.usec;
        time_diff = time_diff_ms(&end_time,
&start_time);
        pClientInfo->tran[tran_type].RTtotal[1] +=
time_diff;
        DPRINT(("srv start_time %d.%d, end_time
%d.%d, time_diff %f\n",
start_time.tv_sec,
start_time.tv_usec,
end_time.tv_sec,
end_time.tv_usec,
time_diff));
        /* update total client round trip response
time */
        start_time.tv_sec = headerP-
>clnt_start.sec;
        start_time.tv_usec = headerP-
>clnt_start.usec;
        end_time.tv_sec = headerP->clnt_end.sec;
        end_time.tv_usec = headerP-
>clnt_end.usec;
        time_diff = time_diff_ms(&end_time,
&start_time);
        pClientInfo->tran[tran_type].RTtotal[0] +=
time_diff;
        DPRINT(("clnt start_time %d.%d, end_time
%d.%d, time_diff %f\n",
start_time.tv_sec,
start_time.tv_usec,
end_time.tv_sec,
end_time.tv_usec,
time_diff));
        /* update num for the number of trans
which have RT measured */
        pClientInfo->tran[tran_type].RTcount ++;
    }
}
\
/*
 * The following send_*** functions are called from
CTPCC_ENCINA class.
 *
 */
\
/*
 * send_new_order
 * Send a new order request to the server
 */
int send_new_order(long length, unsigned char *dataP)

```

```

{
    trpc_status_t trpcStatus;
    data_header header;

    PRE_RPC_WORK(&header, NEWO_TRANS, 0);

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

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

    PRE_RPC_WORK(&header, PAYMENT_TRANS, 0);

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

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

    PRE_RPC_WORK(&header, ORDER_STAT_TRANS, 0);

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

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

    PRE_RPC_WORK(&header, DELIVERY_TRANS, 0);

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

```

```

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

    PRE_RPC_WORK(&header, STOCK_TRANS, 0);

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

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

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

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

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

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

```

```

memset(pClientInfo, 0,
sizeof(total_tran_count_t));

read_mon_environment();

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

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

if (envRetrieval == 0) {
    ENCINA_CALL_RC("mon_RetrieveEnable",mon_RetrieveEnabl
e(FALSE),status);
    CHK_STATUS(status, MON_RETRIEVEENABLE_FAILED,
"mon_RetrieveEnable failed");
}

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

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

DPRINT(("mon_SecuritySetDefaults-> authn %d,
authz %d\n",
client_authnLevel, client_authzSvc));
    ENCINA_CALL_RC("mon_SecuritySetDefaults",
mon_SecuritySetDefaults(client_authnLevel,c
lient_authzSvc),
status);
    CHK_STATUS(status, MON_SECURITYSET_FAILED,
"mon_SecuritySetDefaults failed");

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

{
    dbInfo_data_t data;
    trpc_status_t trpcStatus;
    /* Get DB Info -- currently id does not do
anything

```

```

        but it will tell us if there is a server
out there.
Better to know instead of when all the
terminals
are up and ready
*/
impTPCCNOInfo(&data, &trpcStatus);
if (trpcStatus) {
    char msg[100];
    sprintf(msg, "TRPC error during db info
at init.");
    encina_error_message(msg, trpcStatus);
    CHK_STATUS(33, NOINFO_TRPC_ERROR,
                "TRPC error during db info at
init");
}
}
}

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

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

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

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

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

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

    RegCloseKey(hKey);
}

```

mon_client.h

```

/*
 * mon_client.h
 */

#ifndef MON_CLIENT_H
#define MON_CLIENT_H

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

/*initialization status */
#define INIT_SUCCESS 0
#define INIT_FAILED 1
#define CELL_NAME_UNAVAILABLE 2
#define MON_RETRIEVEENABLE_FAILED 3
#define MON_INITCLIENT_FAILED 4
#define MON_SECURITYSET_FAILED 5
#define MON_SETREFRESHINTERVAL_FAILED 6
#define NOINFO_TRPC_ERROR 7
#define ENROLL_CLIENT_EXCEPTION 8
#define ERRROUT_FILE_NOT_FOUND 9
#define LOG_FILE_NOT_FOUND 10
#define TPCC_KEY_NOT_FOUND 11
#define TERM_ALLOC_FAILED 12

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

#endif /* MON_CLIENT_H */

```

neworder.h

```

#ifndef TRANSARC_neworder_h
#define TRANSARC_neworder_h

#include <trpc/trpc.h>

```

```

#include "_neworder.h"

#include <encina/c_prologue.h>

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

#ifdef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define neworder_v1_0_c_ifspec
neworder_v1_0_c_ifspec
#define neworder_v1_0_s_ifspec
neworder_v1_0_s_ifspec

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

        idl_long_int length,
        idl_char *dataP,
        data_header *headerP,
        trpc_status_t *trpcStatus

#endif
);

void (ENCINA_STUB_CALLING *impTPCCNOInfo) (
#ifdef IDL_PROTOTYPES

        dbInfo_data_t *dataP,
        trpc_status_t *trpcStatus

#endif
);

} neworder_v1_0_epv_t;

DLLEXPORT void ENCINA_STUB_CALLING impTPCCNewOrder (
#ifdef IDL_PROTOTYPES

        idl_long_int length,
        idl_char *dataP,
        data_header *headerP,
        trpc_status_t *trpcStatus

#endif
);

DLLEXPORT void ENCINA_STUB_CALLING impTPCCNOInfo (
#ifdef IDL_PROTOTYPES

        dbInfo_data_t *dataP,
        trpc_status_t *trpcStatus

#endif
);

trpc_handle_t ENCINA_CALLING
mon_handle_t tranBind(
#ifdef IDL_PROTOTYPES

        mon_handle_t handle,
        trpc_tranInfo_t *tranInfoP,

```



```

        trpc_ifSpec_t *ifSpecP
#endif
    );
};

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

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

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

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

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

```

orderstatus.h

```

#ifdef TRANSARC_orderstatus_h
#define TRANSARC_orderstatus_h

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

#include <encina/c_prologue.h>

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

#ifdef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

```

```

#define orderstatus_v1_0_c_ifspec
    orderstatus_v1_0_c_ifspec
#define orderstatus_v1_0_s_ifspec
    orderstatus_v1_0_s_ifspec

typedef struct orderstatus_v1_0_epv {
void (ENCINA_STUB_CALLING *impTPCCOrderStatus) (

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

} orderstatus_v1_0_epv_t;

DLLEXPORT void ENCINA_STUB_CALLING impTPCCOrderStatus
(
#ifdef IDL_PROTOTYPES
        idl_long_int length,
        idl_char *dataP,
        data_header *headerP,
        trpc_status_t *trpcStatus
#endif
);

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

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

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

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

```

```

#endif
    );

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

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

```

payment.h

```

#ifdef TRANSARC_payment_h
#define TRANSARC_payment_h

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

#include <encina/c_prologue.h>

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

#ifdef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define payment_v1_0_c_ifspec _payment_v1_0_c_ifspec
#define payment_v1_0_s_ifspec _payment_v1_0_s_ifspec

typedef struct payment_v1_0_epv {
void (ENCINA_STUB_CALLING *impTPCCPayment) (

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

} payment_v1_0_epv_t;

DLLEXPORT void ENCINA_STUB_CALLING impTPCCPayment (
#ifdef IDL_PROTOTYPES
        idl_long_int length,
        idl_char *dataP,
        data_header *headerP,
        trpc_status_t *trpcStatus
#endif
);

```

```

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

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

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

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

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

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

```

ReadRegistry.cpp

```

/* FILE:      READREGISTRY.CPP
 *           Microsoft
 * TPC-C Kit Ver. 4.20.000
 *           Copyright
 * Microsoft, 1999
 *           All Rights Reserved
 *
 *           not yet
 * audited
 *
 * PURPOSE:  Implementation for TPC-C Tuxedo
class.

```

```

* Contact: Charles Levine
(clevine@microsoft.com)
*
* Change history:
*           4.20.000 - first version
*/

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

```

RESOURCE.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 IDR_LICENSE1 112
#define IDD_DIALOG4 113
#define IDR_TPCCOBJ1 117
#define IDR_TPCCSTUB1 118
#define IDR_DBLIB_DLL 122
#define IDR_ODBC_DLL 123
#define IDR_TUXEDO_APP 124
#define IDR_TUXEDO_DLL 125
#define IDR_COM_DLL 126
#define IDR_COMPS_DLL 127
#define IDR_COMALL_DLL 128
#define IDR_COMTYPLIB_DLL 129
#define BN_LOG 1001
#define ED_KEEP 1002
#define ED_THREADS 1003
#define ED_THREADS2 1004
#define IDC_PATH 1007
#define IDC_VERSION 1009
#define IDC_RESULTS 1010
#define IDC_PROGRESS1 1011
#define IDC_STATUS 1012
#define IDC_BUTTON1 1013
#define ED_MAXCONNECTION 1014
#define ED_IIS_MAX_THREAD_POOL_LIMIT 1015
#define ED_MAXDELIVERIES 1016
#define ED_WEB_SERVICE_BACKLOG_QUEUE_SIZE 1017
#define ED_IIS_THREAD_TIMEOUT 1018
#define ED_IIS_LISTEN_BACKLOG 1019
#define IDC_DBLIB 1021
#define IDC_LICENSE 1022
#define IDC_ODBC 1022
#define IDC_CONNECT_POOL 1023
#define ED_DB_SERVER 1023
#define ED_USER_CONNECT_DELAY_TIME 1024
#define ED_DB_USER_ID 1024
#define IDC_MTS 1025
#define IDC_TM_MTS 1025
#define IDC_TM_TUXEDO 1026
#define IDC_TM_NONE 1027
#define ED_DB_PASSWORD 1028
#define ED_DB_NAME 1029
#define IDC_TM_ENCINA 1030

// Next default values for new objects
//
#ifdef APSTUDIO_INVOKED
#ifdef APSTUDIO_READONLY_SYMBOLS
#define _APS_NEXT_RESOURCE_VALUE 130

```

```

#define _APS_NEXT_COMMAND_VALUE 40001
#define _APS_NEXT_CONTROL_VALUE 1031
#define _APS_NEXT_SYMED_VALUE 101
#endif
#endif

```

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 );
};
/*****
*
* 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

```

stocklevel.h

```

#ifndef TRANSARC_stocklevel_h
#define TRANSARC_stocklevel_h

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

#include <encina/c_prologue.h>

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

```

```

#ifndef ENCINA_STUB_CALLING
#define ENCINA_STUB_CALLING ENCINA_RPC_CALLING
#endif

#define stocklevel_v1_0_c_ifspec
      stocklevel_v1_0_c_ifspec
#define stocklevel_v1_0_s_ifspec
      stocklevel_v1_0_s_ifspec

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

      idl_long_int length,
      idl_char *dataP,
      data_header *headerP,
      trpc_status_t *trpcStatus

#endif
);

} stocklevel_v1_0_epv_t;

DLLEXPORT void ENCINA_STUB_CALLING impTPCCStockLevel
(
#ifdef IDL_PROTOTYPES

      idl_long_int length,
      idl_char *dataP,
      data_header *headerP,
      trpc_status_t *trpcStatus

#endif
);

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

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

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

void          ENCINA_CALLING mon_handle_t_tranUnBind(
#ifdef IDL_PROTOTYPES
      mon_handle_t          handle,

```

```

      trpc_handle_t          trpcHandle,
      trpc_tranInfo_t      *tranInfoP,
      trpc_ifSpec_t *ifSpecP
#endif
);

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

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

```

tm_com_dll.dsp

```

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

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

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

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

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

# PROP BASE Use_MFC 0

```

```

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

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

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

```

```

# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.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
odbccp32.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

```

tm_encina_dll.dsp

```

# Microsoft Developer Studio Project File -
Name="tm_encina_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_encina_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_encina_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_encina_dll.mak"
CFG="tm_encina_dll - Win32 Debug"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "tm_encina_dll - Win32 Release" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE "tm_encina_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_encina_dll - Win32 Release"

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 0
# PROP BASE Output_Dir "Release"
# PROP BASE Intermediate_Dir "Release"
# PROP BASE Target_Dir ""
# PROP Use_MFC 0
# PROP Use_Debug_Libraries 0
# PROP Output_Dir ".\bin"
# PROP Intermediate_Dir ".\obj"
# PROP Ignore_Export_Lib 0
# PROP Target_Dir ""
# ADD BASE CPP /nologo /MT /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /MD /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "NDEBUG" /mktyplib203 /o
"NUL" /win32
# ADD MTL /nologo /D "NDEBUG" /mktyplib203 /o "NUL"
/win32
# ADD BASE RSC /1 0x409 /d "NDEBUG"
# ADD RSC /1 0x409 /d "NDEBUG"
BSC32=bscmake.exe
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib /nologo /subsystem:windows /dll
/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
odbccp32.lib /nologo /subsystem:windows /dll
/machine:I386 /out:".bin/tpcc_encina.dll"

!ELSEIF "$(CFG)" == "tm_encina_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 "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
odbccp32.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
odbccp32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /out:".bin/tpcc_encina.dll"
/pdbtype:sept

!ENDIF

# Begin Target

# Name "tm_encina_dll - Win32 Release"
# Name "tm_encina_dll - Win32 Debug"
# Begin Group "Source"

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

SOURCE=.\src\client_utils.c
# End Source File
# Begin Source File

SOURCE=.\src\mon_client.c
# End Source File
# Begin Source File

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

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

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

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

SOURCE=.\src\tpcc_enc.h
# End Source File
# End Group
# End Target

```

```
# End Project
```

tm_tuxedo_dll.dsp

```
# Microsoft Developer Studio Project File -
Name="tm_tuxedo_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_tuxedo_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 "tm_tuxedo_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_tuxedo_dll.mak"
CFG="tm_tuxedo_dll - Win32 IceCAP"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "tm_tuxedo_dll - Win32 Release" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE "tm_tuxedo_dll - Win32 Debug" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE "tm_tuxedo_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)" == "tm_tuxedo_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
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 libtux.lib libbuft.lib libtux2.lib
libfml.lib libfml32.lib libgp.lib /nologo
/subsystem:windows /dll /machine:I386
/out:".bin\tpcc_tuxedo.dll"

!ELSEIF "$(CFG)" == "tm_tuxedo_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
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 libtux.lib libbuft.lib libtux2.lib
libfml.lib libfml32.lib libgp.lib /nologo

```

```
/subsystem:windows /dll /debug /machine:I386
/out:".bin\tpcc_tuxedo.dll" /pdbtype:sept

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

# PROP BASE Use_MFC 0
# PROP BASE Use_Debug_Libraries 1
# PROP BASE Output_Dir "tm_tuxed"
# PROP BASE Intermediate_Dir "tm_tuxed"
# 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 /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
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 libtux.lib libbuft.lib libtux2.lib
libfml.lib libfml32.lib libgp.lib /nologo
/subsystem:windows /dll /debug /machine:I386
/out:".bin\tpcc_tuxedo.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 libtux.lib libbuft.lib
libtux2.lib libfml.lib libfml32.lib libgp.lib /nologo
/subsystem:windows /dll /debug /machine:I386
/out:".bin\tpcc_tuxedo.dll" /pdbtype:sept

!ENDIF

# Begin Target

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

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

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

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

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

tpcc.cpp

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

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

#include <sqltypes.h>

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

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

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

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

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

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

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

#define LEN_ERR_STRING 256

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

char
szMyComputerName[MAX_COMPUTERNAME_LENGTH+1];

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

// The WEBCLIENT_VERSION string specifies the version
level of this web client interface.
// The RTE must be synchronized with the interface
level on login, otherwise the login
// will fail. This is a sanity check to catch
problems resulting from mismatched versions
// of the RTE and web client.
#define WEBCLIENT_VERSION "410"

static CRITICAL_SECTION
TermCriticalSection;

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

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

// For deferred Delivery txns:
```

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

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

// configuration settings from registry
TPCCREGISTRYDATA Reg;

DWORD dwNumDeliveryThreads = 4;
CRITICAL_SECTION DelBuffCriticalSection;
//critical section for delivery
transactions cache
DELIVERY_TRANSACTION *pDelBuff
= NULL;

DWORD dwDelBuffSize = 100;
// size of circular buffer for delivery

txns
DWORD dwDelBuffFreeCount;
// number of buffers free

DWORD dwDelBuffBusyIndex = 0;
//
index position of entry waiting to be delivered
DWORD dwDelBuffFreeIndex = 0;
//
index position of unused entry

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

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



```

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

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

    try
    {
        switch( ul_reason_for_call )
        {
            case
DLL_PROCESS_ATTACH:
                {
                    DWORD dwSize = MAX_COMPUTERNAME_LENGTH+1;
                    GetComputerName(szMyComputerName, &dwSize);
                    szMyComputerName[dwSize] = 0;
                }

                DisableThreadLibraryCalls((HMODULE)hModule);

                InitializeCriticalSection(&TermCriticalSection);

                ReadTPCCRegistrySettings( &Reg ) )
                if (
                    throw new CWBCLNT_ERR(
ERR_MISSING_REGISTRY_ENTRIES );

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

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

                    TermInit();
                    // load DLL
                    for txn monitor
                    if
(Reg.eTxnMon == TUXEDO)
                {
                    strcpy( szDllName, Reg.szPath );
                    strcat( szDllName, "tpcc_tuxedo.dll");
                    hLibInstanceTm = LoadLibrary( szDllName );
                    if
(hLibInstanceTm == NULL)

```

```

                throw new CWBCLNT_ERR( ERR_LOADDLL_FAILED,
szDllName, GetLastError() );
                //
                get function pointer to wrapper for class constructor
                pCTPCC_TUXEDO_new = (TYPE_CTPCC_TUXEDO*)
GetProcAddress(hLibInstanceTm, "CTPCC_TUXEDO_new");
                if
(pCTPCC_TUXEDO_new == NULL)
                    throw new CWBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                else if
(Reg.eTxnMon == ENCINA)
                {
                    strcpy( szDllName, Reg.szPath );
                    strcat( szDllName, "tpcc_encina.dll");
                    hLibInstanceTm = LoadLibrary( szDllName );
                    if
(hLibInstanceTm == NULL)
                        throw new CWBCLNT_ERR( ERR_LOADDLL_FAILED,
szDllName, GetLastError() );
                //
                get function pointer to wrapper for class constructor
                pCTPCC_ENCINA_new = (TYPE_CTPCC_ENCINA*)
GetProcAddress(hLibInstanceTm, "CTPCC_ENCINA_new");
                pCTPCC_ENCINA_post_init =
(TYPE_CTPCC_ENCINA*)
GetProcAddress(hLibInstanceTm, "CTPCC_ENCINA_post_init
");
                if
(pCTPCC_ENCINA_new == NULL)
                    throw new CWBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                else if
(Reg.eTxnMon == COM)
                {
                    strcpy( szDllName, Reg.szPath );
                    strcat( szDllName, "tpcc_com.dll");
                    hLibInstanceTm = LoadLibrary( szDllName );
                    if
(hLibInstanceTm == NULL)
                        throw new CWBCLNT_ERR( ERR_LOADDLL_FAILED,
szDllName, GetLastError() );
                //
                get function pointer to wrapper for class constructor

```

```

                pCTPCC_COM_new = (TYPE_CTPCC_COM*)
GetProcAddress(hLibInstanceTm, "CTPCC_COM_new");
                if
(pCTPCC_COM_new == NULL)
                    throw new CWBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                // load DLL
                for database connection
                if
((Reg.eTxnMon == None) || (dwNumDeliveryThreads > 0))
                {
                    if
(Reg.eDB_Protocol == DBLIB)
                {
                    strcpy( szDllName, Reg.szPath );
                    strcat( szDllName, "tpcc_dblib.dll");
                    hLibInstanceDb = LoadLibrary( szDllName );
                    if (hLibInstanceDb == NULL)
                        throw new CWBCLNT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );
                //
                get function pointer to wrapper for
class constructor
                pCTPCC_DBLIB_new = (TYPE_CTPCC_DBLIB*)
GetProcAddress(hLibInstanceDb, "CTPCC_DBLIB_new");
                if (pCTPCC_DBLIB_new == NULL)
                    throw new CWBCLNT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
                }
                else if (Reg.eDB_Protocol == ODBC)
                {
                    strcpy( szDllName, Reg.szPath );
                    strcat( szDllName, "tpcc_odbc.dll");
                    hLibInstanceDb = LoadLibrary( szDllName );
                    if (hLibInstanceDb == NULL)
                        throw new CWBCLNT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );
                //
                get function pointer to wrapper for
class constructor
                pCTPCC_ODBC_new = (TYPE_CTPCC_ODBC*)
GetProcAddress(hLibInstanceDb, "CTPCC_ODBC_new");

```

```

        if (pCTPCC_ODBC_new == NULL)
            throw new CWBCLNT_ERR(
                ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
    }
}

(dwNumDeliveryThreads)
{
    //
    for deferred delivery txns:

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

        InitializeCriticalSection(&DelBuffCriticalS
            ection);

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

        dwDelBuffFreeCount = dwDelBuffSize;

        InitJulianTime(NULL);

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

        SYSTEMTIME Time;

        GetLocalTime( &Time );

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

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

        txnDelilog = new CTxnLog(szLogFile,
            TXN_LOG_WRITE);

        //write event into txn log for START

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

        //
        allocate structures for delivery buffers and thread
        mgmt

        pDeliHandles = new
            HANDLE[dwNumDeliveryThreads];

        pDelBuff = new
            DELIVERY_TRANSACTION[dwDelBuffSize];

```

```

//
launch DeliveryWorkerThread to perform actual
delivery txns

        for(i=0; i<dwNumDeliveryThreads; i++)
        {
            pDeliHandles[i] = (HANDLE) _beginthread(
                DeliveryWorkerThread, 0, NULL );

            if (pDeliHandles[i] ==
                INVALID_HANDLE_VALUE)

                throw new CWBCLNT_ERR(
                    ERR_DELIVERY_THREAD_FAILED );
        }

        break;

        case
        DLL_PROCESS_DETACH:

            if
            (dwNumDeliveryThreads)

            {
                if
                (txnDelilog != NULL)

                {
                    //write event into txn log for STOP

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

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

                    CTxnLog *txnDelilogLocal = txnDelilog;

                    txnDelilog= NULL;

                    delete txnDelilogLocal;
                }

                delete [] pDeliHandles;

                delete [] pDelBuff;

                CloseHandle( hWorkerSemaphore );

                CloseHandle( hDoneEvent );

                DeleteCriticalSection(&DelBuffCriticalSecti
                    on);

                DeleteCriticalSection(&TermCriticalSection)

```

```

            if
            (hLibInstanceTm != NULL)

                FreeLibrary( hLibInstanceTm );

                hLibInstanceTm = NULL;

            if
            (hLibInstanceDb != NULL)

                FreeLibrary( hLibInstanceDb );

                hLibInstanceDb = NULL;

                Sleep(500);
                break;

            default:
                /* nothing
            */;
        }
    }
    catch (CBaseErr *e)
    {
        WriteMessageToEventLog( e-
            >ErrorText() );

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

    return TRUE;

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

BOOL WINAPI GetExtensionVersion(HSE_VERSION_INFO
    *pVer)
{
    pVer->dwExtensionVersion =
        MAKELONG(HSE_VERSION_MINOR, HSE_VERSION_MAJOR);

```

```

        lstrcpy(pVer->lpszExtensionDesc, "TPC-C
Server.", HSE_MAX_EXT_DLL_NAME_LEN);

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

        return TRUE;
}

/* FUNCTION: TerminateExtension
 *
 * PURPOSE: This function is called by the
inet service when the DLL is about to be unloaded.
 *          Release all resources
in anticipation of being unloaded.
 *
 * RETURNS: TRUE inet service
expected return value.
 */

BOOL WINAPI TerminateExtension( DWORD dwFlags )
{
    if (pDeliHandles)
    {
        SetEvent( hDoneEvent );
        for (DWORD i=0;
i<dwNumDeliveryThreads; i++)
            WaitForSingleObject(
pDeliHandles[i], INFINITE );
    }

    TermDeleteAll();
    return TRUE;
}

/* FUNCTION: HttpExtensionProc
 *
 * PURPOSE: This function is the main entry
point for the TPCC DLL. The internet service
 *          calls this function
passing in the http string.
 *
 * ARGUMENTS: EXTENSION_CONTROL_BLOCK
 *pECB structure pointer to passed in
internet
 *
 *          service information.
 *
 * RETURNS: DWORD
HSE_STATUS_SUCCESS
connection can be dropped if
error
 *
 *          HSE_STATUS_SUCCESS_AND_KEEP_CONN
keep connect valid comment sent
 *
 * COMMENTS: None
 */

```

```

DWORD WINAPI
HttpExtensionProc(EXTENSION_CONTROL_BLOCK *pECB)
{
    int iCmd, FormId,
TermId, iSyncId;
    char szBuffer[4096];

    int lpbSize;
    static char szHeader[] = "200 Ok";
    DWORD dwSize = 6;
    // initial value is strlen(szHeader)
    char szHeader1[4096];

#ifdef ICECAP
    StartCAP();
#endif

    try
    {
        //process http query
        ProcessQueryString(pECB, &iCmd,
&FormId, &TermId, &iSyncId);

        if (TermId != 0)
        {
            if ( TermId < 0 ||
TermId >= Term.iNumEntries ||
Term.pClientData[TermId].iNextFree != -1 )
                //
                // debugging...
                char
                szTmp[128];
                wsprintf(
szTmp, "Invalid term ID; TermId = %d", TermId );
                WriteMessageToEventLog( szTmp );
                throw new
CWEBCLNT_ERR( ERR_INVALID_TERMID );
            //must have a valid
syncid here since termid is valid
            if (iSyncId !=
Term.pClientData[TermId].iSyncId)
                throw new
CWEBCLNT_ERR( ERR_INVALID_SYNC_CONNECTION );
            //set use time
            Term.pClientData[TermId].iTickCount =
GetTickCount();
        }

        switch(iCmd)
        {
            case 0:
                WelcomeForm(pECB,
szBuffer);

```

```

                break;
            case 1:
                switch( FormId )
                {
                    case
WELCOME_FORM:
                    case
MAIN_MENU_FORM:
                        break;
                    case
NEW_ORDER_FORM:
                        ProcessNewOrderForm(pECB, TermId,
szBuffer);
                        break;
                    case
PAYMENT_FORM:
                        ProcessPaymentForm(pECB, TermId, szBuffer);
                        break;
                    case
DELIVERY_FORM:
                        ProcessDeliveryForm(pECB, TermId,
szBuffer);
                    case
ORDER_STATUS_FORM:
                        ProcessOrderStatusForm(pECB, TermId,
szBuffer);
                        break;
                    case
STOCK_LEVEL_FORM:
                        ProcessStockLevelForm(pECB, TermId,
szBuffer);
                        break;
                }
            case 2:
                // new-order selected
from menu; display new-order input form
                MakeNewOrderForm(TermId, NULL, INPUT_FORM,
szBuffer);
                break;
            case 3:
                // payment selected
from menu; display payment input form
                MakePaymentForm(TermId,
NULL, INPUT_FORM, szBuffer);
                break;
            case 4:
                // delivery selected
from menu; display delivery input form

```

```

        MakeDeliveryForm(TermId, NULL, INPUT_FORM,
szBuffer);
                break;
        case 5:
            // order-status
selected from menu; display order-status input form
            MakeOrderStatusForm(TermId, NULL,
INPUT_FORM, szBuffer);
                break;
        case 6:
            // stock-level selected
from menu; display stock-level input form
            MakeStockLevelForm(TermId, NULL,
INPUT_FORM, szBuffer);
                break;
        case 7:
            // ExitCmd
            TermDelete(TermId);
            WelcomeForm(pECB,
szBuffer);
                break;
        case 8:
            SubmitCmd(pECB,
szBuffer);
                break;
        case 9:
            // menu
            MakeMainMenuForm(TermId,
Term.pClientData[TermId].iSyncId, szBuffer);
                break;
        case 10:
            // CMD=Clear
            // resets all
connections; should only be used when no other
connections are active
            TermDeleteAll();
            TermInit();
            WelcomeForm(pECB,
szBuffer);
                break;
        case 11:
            // CMD=Stats
            StatsCmd(pECB,
szBuffer);
                break;
            }
        catch (CBaseErr *e)
        {
            ErrorForm( pECB, e->ErrorType(),
e->ErrorNum(), TermId, iSyncId, e->ErrorText(),
szBuffer );
            delete e;
        }
        catch (...)
        {
            ErrorForm( pECB, ERR_TYPE_WEBDDL,
0, TermId, iSyncId, "Error: Unhandled exception in
Web Client.", szBuffer );
        }

```

```

#ifdef ICECAP
        StopCAP();
#endif

        lpbSize = strlen(szBuffer);
        wsprintf(szHeader1,
                "Content-Type:
text/html\r\n"
                "Content-Length:
%d\r\n"
                "Connection: Keep-
Alive\r\n\r\n", lpbSize);
        strcat( szHeader1, szBuffer );

        (*pECB->ServerSupportFunction)(pECB-
>ConnID, HSE_REQ_SEND_RESPONSE_HEADER, szHeader,
(LPDWORD) &dwSize, (LPDWORD)szHeader1);

        //finish up and keep connection
pECB->dwHttpStatusCode = 200;
        return HSE_STATUS_SUCCESS_AND_KEEP_CONN;
}

void WriteMessageToEventLog(LPTSTR lpszMsg)
{
    TCHAR    szMsg[256];
    HANDLE   hEventSource;
    LPTSTR   lpszStrings[2];

    // Use event logging to log the error.
    //
    hEventSource = RegisterEventSource(NULL,
TEXT("TPCC.DLL"));

    _stprintf(szMsg, TEXT("Error in TPCC.DLL: "));
    lpszStrings[0] = szMsg;
    lpszStrings[1] = lpszMsg;

    if (hEventSource != NULL)
    {
        ReportEvent(hEventSource, // handle of event
source
                EVENTLOG_ERROR_TYPE, // event type
                0, // event category
                0, // event ID
                NULL, // current user's
SID
                2, // strings in
lpszStrings
                0, // no bytes of raw
data
                (LPCTSTR *)lpszStrings, // array of
error strings
                NULL); // no raw data

        (VOID) DeregisterEventSource(hEventSource);
    }
}

```

```

/* FUNCTION: DeliveryWorkerThread
 *
 * PURPOSE:      This function processes deferred
delivery txns. There are typically several
 *               threads running this
routine. The number of threads is determined by an
entry
 *               read from the registry.
The thread waits for work by waiting on semaphore.
 *               When a delivery txn is
posted, the semaphore is released. After processing
 *               the delivery txn,
information is logged to record the txn status and
execution
 *               time.
 */

/*static*/ void DeliveryWorkerThread(void *ptr)
{
    CTPCC_BASE                *pTxn = NULL;
    DELIVERY_TRANSACTION
delivery;
    PDELIVERY_DATA
pDeliveryData;
    TXN_RECORD_TPCC_DELIV_DEF    txnDeliRec;
    DWORD
index;
    HANDLE
handles[2];
    SYSTEMTIME                trans_end;
                                //delivery transaction finished
time
    SYSTEMTIME                trans_start;
                                //delivery transaction start time
    assert(txnDeliRec != NULL);

    try
    {
        if (Reg.eDB_Protocol == ODBC)
            pTxn = pCTPCC_ODBC_new(
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword,
szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol ==
DBLIB)
            pTxn =
pCTPCC_DBLIB_new( Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        pDeliveryData = pTxn-
>BuffAddr_Delivery();
    }
    catch (CBaseErr *e)
    {
        char szTmp[1024];
        wsprintf( szTmp, "Error in
Delivery Txn thread. Could not connect to database.
"
                "%s.
Server=%s, User=%s, Password=%s, Database=%s",

```

```

        e-
>ErrorText(), Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword, Reg.szDbName );
        WriteMessageToEventLog( szTmp );
        delete e;
        goto ErrorExit;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception caught in DeliveryWorkerThread.));
        goto ErrorExit;
    }
    while (TRUE)
    {
        try
        {
            //while delivery thread
            running, i.e. user has not requested termination
            while (TRUE)
            {
                // need to
                wait for multiple objects: program exit or worker
                semaphore;
                hDoneEvent;
                hWorkerSemaphore;
                WaitForMultipleObjects( 2, &handles[0], FALSE,
                INFINITE );
                if (index ==
                WAIT_OBJECT_0)
                goto ErrorExit;

                ZeroMemory(&txnDeliRec,
                sizeof(txnDeliRec));

                txnDeliRec.TxnType =
                TXN_REC_TYPE_TPCC_DELIV_DEF;

                // make a
                local copy of current entry from delivery buffer and
                increment buffer index
                EnterCriticalSection(&DelBuffCriticalSection);
                delivery =
                *(pDelBuff+dwDelBuffBusyIndex);
                dwDelBuffFreeCount++;
                dwDelBuffBusyIndex++;
                if
                (dwDelBuffBusyIndex == dwDelBuffSize) // wrap-
                around if at end of buffer
                dwDelBuffBusyIndex = 0;
            }
        }
    }
}

```

```

        LeaveCriticalSection(&DelBuffCriticalSection);
    };
    pDeliveryData->w_id = delivery.w_id;
    pDeliveryData->o_carrier_id =
    delivery.o_carrier_id;

    txnDeliRec.w_id = pDeliveryData->w_id;
    txnDeliRec.o_carrier_id = pDeliveryData-
    >o_carrier_id;

    txnDeliRec.TxnStartT0 =
    Get64BitTime(&delivery.queue);

    GetLocalTime(
    &trans_start );
    pTxn-
    >Delivery();
    GetLocalTime(
    &trans_end );
    //log txn
    txnDeliRec.TxnStatus = ERR_SUCCESS;
    for (int i=0;
    i<10; i++)
    txnDeliRec.o_id[i] = pDeliveryData-
    >o_id[i];
    txnDeliRec.DeltaT4 =
    (int) (Get64BitTime(&trans_end) -
    txnDeliRec.TxnStartT0);
    txnDeliRec.DeltaTxnExec =
    (int) (Get64BitTime(&trans_end) -
    Get64BitTime(&trans_start));
    if
    (txnDelilog != NULL)
    txnDelilog->WriteToLog(&txnDeliRec);
    }
    catch (CBaseErr *e)
    {
        char szTmp[1024];
        wsprintf( szTmp, "Error
in Delivery Txn thread. %s",
e->ErrorText() );
        WriteMessageToEventLog(
        szTmp );
        // log the error txn
        txnDeliRec.TxnStatus =
        e->ErrorType();
        if (txnDelilog != NULL)
        txnDelilog-
        >WriteToLog(&txnDeliRec);
    }
}

```

```

        delete e;
    }
    catch (...)
    {
        // unhandled exception;
        shouldn't happen; not much we can do...
        WriteMessageToEventLog(TEXT("Unhandled
exception caught in DeliveryWorkerThread.));
    }
}
ErrorExit:
    delete pTxn;
    _endthread();
}
/* FUNCTION: PostDeliveryInfo
* PURPOSE: This function enters the delivery
txn into the deferred delivery buffer.
* RETURNS: BOOL FALSE
delivery information posted successfully
TRUE error cannot post delivery info
*/
BOOL PostDeliveryInfo(short w_id, short o_carrier_id)
{
    BOOL bError;
    EnterCriticalSection(&DelBuffCriticalSection);
    if (dwDelBuffFreeCount > 0)
    {
        bError = FALSE;
        (pDelBuff+dwDelBuffFreeIndex)-
        = w_id;
        (pDelBuff+dwDelBuffFreeIndex)-
        = o_carrier_id;
        GetLocalTime (&(pDelBuff+dwDelBuffFreeIndex)
        ->queue);
        dwDelBuffFreeCount--;
        dwDelBuffFreeIndex++;
        if (dwDelBuffFreeIndex ==
        dwDelBuffSize)
        dwDelBuffFreeIndex = 0;
        // wrap-around if at end of
        buffer
    }
    else
    // No free buffers. Return an
    error, which indicates that the delivery buffer is
    full.
    // Most likely, the number of
    delivery worker threads needs to be increased to keep
    up
    // with the txn rate.
    bError = TRUE;
}

```

```

n);
    LeaveCriticalSection(&DelBuffCriticalSection);
    if (!bError)
        // increment worker semaphore to
wake up a worker thread
        ReleaseSemaphore(
hWorkerSemaphore, 1, NULL );
    return bError;
}
/* FUNCTION: ProcessQueryString
 *
 * PURPOSE: This function extracts the
relevent information out of the http command passed
in from
 *
 *           the browser.
 *
 * COMMENTS: If this is the initial connection
i.e. client is at welcome screen then
 *
 *           there will
not be a terminal id or current form id. If this is
the case
 *
 *           then the
pTermid and pFormid return values are undefined.
 */
void ProcessQueryString(EXTENSION_CONTROL_BLOCK
*pECB, int *pCmd, int *pFormId, int *pTermId, int
*pSyncId)
{
    char *ptr = pECB->lpszQueryString;
    char szBuffer[25];
    int i;
    //allowable client command strings i.e.
CMD=command
    static char *szCmds[] =
    {
        "Process", ".NewOrder..",
        "..Payment..", ".Delivery..", ".Order-Status..",
        "..Stock-Level..", ".Exit..", "Submit", "Menu",
        "Clear", "Stats", ""
    };
    *pCmd = 0; // default is
the login screen
    *pTermId = 0;
    // if no params (i.e., empty query string),
then return login screen
    if (strlen(pECB->lpszQueryString) == 0)
        return;
    // parse FORMID, TERMID, and SYNCID
    *pFormId = GetIntKeyValue(&ptr, "FORMID",
NO_ERR, NO_ERR);
    *pTermId = GetIntKeyValue(&ptr, "TERMID",
NO_ERR, NO_ERR);
    *pSyncId = GetIntKeyValue(&ptr, "SYNCID",
NO_ERR, NO_ERR);

```

```

// parse CMD
GetKeyValue(&ptr, "CMD", szBuffer,
sizeof(szBuffer), ERR_COMMAND_UNDEFINED);
// see which command it matches
for(i=0; ; i++)
{
    if (szCmds[i][0] == 0)
        // no more; no match;
return error
        throw new CWEBCLNT_ERR(
ERR_COMMAND_UNDEFINED );
    if ( !strcmp(szCmds[i], szBuffer)
)
    {
        *pCmd = i+1;
        break;
    }
}
/* FUNCTION: void WelcomeForm
 *
 */
void WelcomeForm(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer)
{
    char szTmp[1024];
    //welcome to tpc-c html form buffer, this
is first form client sees.
    strcpy( szBuffer,
"<HTML><HEAD><TITLE>TPC-C Web
Client</TITLE></HEAD><BODY>"
        "<B><BIG>Microsoft TPC-C Web Client (ver
4.20)</BIG></B> <BR> <BR>"
        "<font face=\"Courier New\"><PRE>"
        "Compiled: \"_DATE_\", \"_TIME_\" <BR>"
        "Source: \"_FILE_\" (\"_TIMESTAMP_\")
<BR>"
        "</PRE></font>"
        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\""
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\"
VALUE=\"0\""
        "<INPUT TYPE=\"hidden\" NAME=\"ERROR\"
VALUE=\"0\""
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\"
VALUE=\"1\""
        "<INPUT TYPE=\"hidden\" NAME=\"TERMID\"
VALUE=\"0\""

```

```

        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\"
VALUE=\"0\""
        "<INPUT TYPE=\"hidden\" NAME=\"VERSION\"
VALUE=\"\" WEBCLIENT_VERSION \"\""
        );
    sprintf( szTmp,
"Configuration
Settings: <BR><font face=\"Courier New\"
color=\"blue\"><PRE>"
        "Txn Monitor           = <B>%s</B><BR>"
        "Database protocol      = <B>%s</B><BR>"
        "Max Connections        = <B>%d</B><BR>"
        "Max Pending Deliveries = <B>%d</B><BR>"
        "#
szTxnMonNames[Reg.eTxnMon],
szDBNames[Reg.eDB_Protocol],
        Reg.dwMaxConnections,
dwNumDeliveryThreads, dwDelBuffSize );
    strcat( szBuffer, szTmp);
    if (Reg.eTxnMon == COM)
    {
        sprintf( szTmp,
"COM Single
Pool           = <B>%s</B><BR>",
        Reg.bCOM_SinglePool ?
"YES" : "NO" );
        strcat( szBuffer, szTmp);
    }
    strcat( szBuffer, "</PRE></font>");
    if (Reg.eTxnMon == None)
        // connection options may be
specified when not using a txn monitor
        sprintf( szTmp,
"Please enter
your database options for this connection:<BR>"
        "<font face=\"Courier New\"
color=\"blue\"><PRE>"
        "DB Server           = <INPUT NAME=\"db_server\"
SIZE=20 VALUE=\"%s\"><BR>"
        "DB User ID          = <INPUT NAME=\"db_user\"
SIZE=20 VALUE=\"%s\"><BR>"
        "DB Password        = <INPUT NAME=\"db_passwd\"
SIZE=20 VALUE=\"%s\"><BR>"
        "DB Name            = <INPUT NAME=\"db_name\"
SIZE=20 VALUE=\"%s\"><BR>"
        "</PRE></font>"
        Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword,
Reg.szDbName );

```

```

else
    // if using a txn monitor,
    connection options are determined from registry;
    can't
    // set per user. show options
    fyi
    sprintf( szTmp, "Database
options which will be used by the transaction
monitor:<BR>"

    "<font face=\\"Courier New\\"
color=\\"blue\\"><PRE>"

    "DB Server          = <B>%s</B><BR>"
    "DB User ID        = <B>%s</B><BR>"
    "DB Password       = <B>%s</B><BR>"
    "DB Name           = <B>%s</B><BR>"

    "</PRE></font>"

    Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword,
    Reg.szDbName );
    strcat( szBuffer, szTmp);

    sprintf( szTmp, "Please enter your
Warehouse and District for this session:<BR>"

    "<font face=\\"Courier New\\"
color=\\"blue\\"><PRE>" );
    strcat( szBuffer, szTmp);
    strcat( szBuffer, "Warehouse ID = <INPUT
NAME=\\"w_id\\" SIZE=4><BR>"

    "District ID = <INPUT NAME=\\"d_id\\"
SIZE=2><BR>"

    "</PRE></font><HR>"

    "<INPUT TYPE=\\"submit\\" NAME=\\"CMD\\"
VALUE=\\"Submit\\">"

    "</FORM></BODY></HTML>");
}

/* FUNCTION: SubmitCmd
*
* PURPOSE: This function allocated a new
terminal id in the Term structure array.
*
*/

void SubmitCmd(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer)
{
    int iNewTerm;
    char *ptr = pECB->lpszQueryString;

    char szVersion[32] = { 0 };
    char szServer[32] = { 0 };

```

```

"sa";
char szUser[32] =
"sa";
char szPassword[32] = { 0 };
char szDatabase[32] = "tpcc";

// validate version field; the version
field ensures that the RTE is synchronized with the
web client
    GetKeyValue(&ptr, "VERSION", szVersion,
sizeof(szVersion), ERR_VERSION_MISMATCH);
    if ( strcmp( szVersion, WEBCLIENT_VERSION )
)
        throw new CWBCLNT_ERR(
ERR_VERSION_MISMATCH );

    if (Reg.eTxnMon == None)
    {
        // parse Server name
        GetKeyValue(&ptr, "db_server",
szServer, sizeof(szServer), ERR_NO_SERVER_SPECIFIED);
        // parse User name
        GetKeyValue(&ptr, "db_user",
szUser, sizeof(szUser), NO_ERR);
        // parse Password
        GetKeyValue(&ptr, "db_passwd",
szPassword, sizeof(szPassword), NO_ERR);
        // parse Database name
        GetKeyValue(&ptr, "db_name",
szDatabase, sizeof(szDatabase), NO_ERR);
    }

    // parse warehouse ID
    int w_id = GetIntKeyValue(&ptr, "w_id",
ERR_HTML_ILL_FORMED, ERR_W_ID_INVALID);
    if ( w_id < 1 )
        throw new CWBCLNT_ERR(
ERR_W_ID_INVALID );

    // parse district ID
    int d_id = GetIntKeyValue(&ptr, "d_id",
ERR_HTML_ILL_FORMED, ERR_D_ID_INVALID);
    if ( d_id < 1 || d_id > 10 )
        throw new CWBCLNT_ERR(
ERR_D_ID_INVALID );

    iNewTerm = TermAdd();

    Term.pClientData[iNewTerm].w_id = w_id;
    Term.pClientData[iNewTerm].d_id = d_id;

    try
    {
        if (Reg.eTxnMon == TUXEDO)

            Term.pClientData[iNewTerm].pTxn =
pCTPCC_TUXEDO_new();
        else if (Reg.eTxnMon == ENCINA)

            Term.pClientData[iNewTerm].pTxn =
pCTPCC_ENCINA_new();
        else if (Reg.eTxnMon == COM)

```

```

            Term.pClientData[iNewTerm].pTxn =
pCTPCC_COM_new( Reg.bCOM_SinglePool );
        else if (Reg.eDB_Protocol ==
ODBC)

            Term.pClientData[iNewTerm].pTxn =
pCTPCC_ODBC_new( szServer, szUser, szPassword,
szMyComputerName, szDatabase );
        else if (Reg.eDB_Protocol ==
DBLIB)

            Term.pClientData[iNewTerm].pTxn =
pCTPCC_DBLIB_new( szServer, szUser, szPassword,
szMyComputerName, szDatabase );
    }
    catch (...)
    {
        TermDelete(iNewTerm);
        throw; // pass
exception upward
    }

    MakeMainMenuForm(iNewTerm,
Term.pClientData[iNewTerm].iSyncId, szBuffer);
}

/* FUNCTION: StatsCmd
*
* PURPOSE: This function returns to the
browser the total number of active terminal ids.
* This routine is for
development/debugging purposes.
*
*/

void StatsCmd(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer)
{
    int i;
    int iTTotal;

    EnterCriticalSection(&TermCriticalSection);

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

            iTTotal++;
    }

    LeaveCriticalSection(&TermCriticalSection);

    wsprintf( szBuffer,

    "<HTML><HEAD><TITLE>TPC-C Web Client
Stats</TITLE></HEAD>"

    "<BODY><B><BIG> Total
Active Connections: %d </BIG></B><BR></BODY></HTML>"
, iTTotal );
}

```

```

char *CWEBCLNT_ERR::ErrorText()
{
    static SERRORMSG errorMsgs[] =
    {
        { ERR_COMMAND_UNDEFINED,
          "Command undefined."
        },
        { ERR_D_ID_INVALID,
          "Invalid District ID Must be 1 to 10."
        },
        { ERR_DELIVERY_CARRIER_ID_RANGE,
          "Delivery Carrier ID out of range
must be 1 - 10."
        },
        { ERR_DELIVERY_CARRIER_INVALID,
          "Delivery Carrier ID invalid must be
numeric 1 - 10."
        },
        { ERR_DELIVERY_MISSING_OCD_KEY,
          "Delivery missing Carrier ID key \"OCD*\"."
        },
        { ERR_DELIVERY_THREAD_FAILED,
          "Could not start delivery worker
thread."
        },
        { ERR_GETPROCADDR_FAILED,
          "Could not map proc in DLL. GetProcAddr
error. DLL="
        },
        { ERR_HTML_ILL_FORMED,
          "Required key field is missing from HTML
string."
        },
        { ERR_INVALID_SYNC_CONNECTION,
          "Invalid Terminal Sync ID."
        },
        { ERR_INVALID_TERMID,
          "Invalid Terminal ID."
        },
        { ERR_LOADDLL_FAILED,
          "Load of DLL failed. DLL="
        },
        { ERR_MAX_CONNECTIONS_EXCEEDED,
          "No connections available. Max Connections
is probably too low."
        },
        { ERR_MISSING_REGISTRY_ENTRIES,

```

```

          "Required registry entries are missing.
Rerun INSTALL to correct."
        },
        { ERR_NEWORDER_CUSTOMER_INVALID,
          "New Order customer id invalid
data type, range = 1 to 3000."
        },
        { ERR_NEWORDER_CUSTOMER_KEY,
          "New Order missing Customer key
\"CID*\"."
        },
        { ERR_NEWORDER_DISTRICT_INVALID,
          "New Order District ID Invalid
range 1 - 10."
        },
        { ERR_NEWORDER_FORM_MISSING_DID,
          "New Order missing District key
\"DID*\"."
        },
        { ERR_NEWORDER_ITEMID_INVALID,
          "New Order Item Id is wrong data type, must
be numeric."
        },
        { ERR_NEWORDER_ITEMID_RANGE,
          "New Order Item Id is out of
range. Range = 1 to 999999."
        },
        { ERR_NEWORDER_ITEMID_WITHOUT_SUPPW,
          "New Order Item_Id field entered without a
corresponding Supp_W."
        },
        { ERR_NEWORDER_MISSING_IID_KEY,
          "New Order missing Item Id key \"IID*\"."
        },
        { ERR_NEWORDER_MISSING_QTY_KEY,
          "New Order Missing Qty key \"Qty##*\"."
        },
        { ERR_NEWORDER_MISSING_SUPPW_KEY,
          "New Order missing Supp_W key
\"SP##*\"."
        },
        { ERR_NEWORDER_NOITEMS_ENTERED,
          "New Order No order lines entered."
        },
        { ERR_NEWORDER_QTY_INVALID,
          "New Order Qty invalid must be
numeric range 1 - 99."
        },
        { ERR_NEWORDER_QTY_RANGE,
          "New Order Qty is out of range. Range = 1
to 99."
        },

```

```

        { ERR_NEWORDER_QTY_WITHOUT_SUPPW,
          "New Order Qty field entered
without a corresponding Supp_W."
        },
        { ERR_NEWORDER_SUPPW_INVALID,
          "New Order Supp_W invalid data
type must be numeric."
        },
        { ERR_NO_SERVER_SPECIFIED,
          "No Server name specified."
        },
        { ERR_ORDERSTATUS_CID_AND_CLT,
          "Order Status Only Customer ID or Last Name
may be entered, not both."
        },
        { ERR_ORDERSTATUS_CID_INVALID,
          "Order Status Customer ID invalid, range
must be numeric 1 - 3000."
        },
        { ERR_ORDERSTATUS_CLT_RANGE,
          "Order Status Customer last name
longer than 16 characters."
        },
        { ERR_ORDERSTATUS_DID_INVALID,
          "Order Status District invalid, value must
be numeric 1 - 10."
        },
        { ERR_ORDERSTATUS_MISSING_CID_CLT,
          "Order Status Either Customer ID or Last
Name must be entered."
        },
        { ERR_ORDERSTATUS_MISSING_CID_KEY,
          "Order Status missing Customer key
\"CID*\"."
        },
        { ERR_ORDERSTATUS_MISSING_CLT_KEY,
          "Order Status missing Customer Last Name
key \"CLT*\"."
        },
        { ERR_ORDERSTATUS_MISSING_DID_KEY,
          "Order Status missing District key
\"DID*\"."
        },
        { ERR_PAYMENT_CDI_INVALID,
          "Payment Customer district
invalid must be numeric."
        },
        { ERR_PAYMENT_CID_AND_CLT,
          "Payment Only Customer ID or Last
Name may be entered, not both."
        },
        { ERR_PAYMENT_CUSTOMER_INVALID,
          "Payment Customer data type invalid, must
be numeric."
        },
        { ERR_PAYMENT_CWI_INVALID,

```



```

        "Payment Customer Warehouse
invalid, must be numeric."
    },
    {
        ERR_PAYMENT_DISTRICT_INVALID,
        "Payment District ID is invalid, must be 1
- 10."
    },
    {
        ERR_PAYMENT_HAM_INVALID,
        "Payment Amount invalid data type
must be numeric."
    },
    {
        ERR_PAYMENT_HAM_RANGE,
        "Payment Amount out of range, 0 - 9999.99."
    },
    {
        ERR_PAYMENT_LAST_NAME_TO_LONG,
        "Payment Customer last name
longer than 16 characters."
    },
    {
        ERR_PAYMENT_MISSING_CDI_KEY,
        "Payment missing Customer district key
\"CDI*\"."
    },
    {
        ERR_PAYMENT_MISSING_CID_CLT,
        "Payment Either Customer ID or Last Name
must be entered."
    },
    {
        ERR_PAYMENT_MISSING_CID_KEY,
        "Payment missing Customer Key \"CID*\"."
    },
    {
        ERR_PAYMENT_MISSING_CLT_KEY,
        "Payment missing Customer Last Name key
\"CLT*\"."
    },
    {
        ERR_PAYMENT_MISSING_CWI_KEY,
        "Payment missing Customer Warehouse key
\"CWI*\"."
    },
    {
        ERR_PAYMENT_MISSING_DID_KEY,
        "Payment missing District Key \"DID*\"."
    },
    {
        ERR_PAYMENT_MISSING_HAM_KEY,
        "Payment missing Amount key \"HAM*\"."
    },
    {
        ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
        "Stock Level; missing Threshold key
\"TT*\"."
    },
    {
        ERR_STOCKLEVEL_THRESHOLD_INVALID,

```

```

        "Stock Level; Threshold value must be in
the range = 1 - 99."
    },
    {
        ERR_STOCKLEVEL_THRESHOLD_RANGE,
        "Stock Level Threshold out of
range, range must be 1 - 99."
    },
    {
        ERR_VERSION_MISMATCH,
        "Invalid version field. RTE and Web Client
are probably out of sync."
    },
    {
        ERR_W_ID_INVALID,
        "Invalid Warehouse ID."
    },
    {
        0,
        ""
    }
};

char szTmp[256];
int i = 0;
while (TRUE)
{
    if (errorMsgs[i].szMsg[0] == 0)
    {
        strcpy( szTmp, "Unknown
error number. ");
        break;
    }
    if (m_Error ==
errorMsgs[i].iError)
    {
        strcpy( szTmp,
errorMsgs[i].szMsg );
        break;
    }
    i++;
}

if (m_szTextDetail)
    strcat( szTmp, m_szTextDetail );
if (m_SystemErr)
    vsprintf( szTmp+strlen(szTmp), "
Error=%d", m_SystemErr );

m_szErrorText = new char[strlen(szTmp)+1];
strcpy( m_szErrorText, szTmp );
return m_szErrorText;
}

/* FUNCTION: GetKeyValue
*
* PURPOSE: This function parses a http
formatted string for specific key values.
*
* ARGUMENTS: char *pQueryString http string from client
browser

```

```

*
* char key
* *pKey
value to look for
*
* char
* *pValue
character array into which to place key's
value
*
* int
* iMax
maximum length of key value array.
*
* WEBERROR
err
error value to throw
*
* RETURNS: nothing.
*
* ERROR: if (the pKey value is not found)
then
*
* if
(err == 0)
*
* return (empty string)
*
* else
*
* throw CWEBCLNT_ERR(err)
*
* COMMENTS: http keys are formatted either
KEY=value& or KEY=value\0. This DLL formats
*
* TPC-C input
fields in such a manner that the keys can be
extracted in the
*
* above manner.
*/

void GetKeyValue(char **pQueryString, char *pKey,
char *pValue, int iMax, WEBERROR err)
{
    char *ptr;

    if ( !(ptr=strstr(*pQueryString, pKey)) )
        goto ErrorExit;
    ptr += strlen(pKey);
    if ( *ptr != '=' )
        goto ErrorExit;
    ptr++;

    iMax--; // one position is for terminating
null
    while( *ptr && *ptr != '&' && iMax)
    {
        *pValue++ = *ptr++;
        iMax--;
    }
    *pValue = 0; // terminating null

    *pQueryString = ptr;
    return;

ErrorExit:
    if (err != NO_ERR)
        throw new CWEBCLNT_ERR( err );
    *pValue = 0; // return empty result string

```

```

}
/* FUNCTION: GetIntKeyValue
 *
 * PURPOSE: This function parses a http
formatted string for a specific key value.
 *
 * ARGUMENTS: char http string from client
browser *pQueryString
 *
 * RETURNS: char key
value to look for *pKey
 *
 * ERROR: WEBERROR error value to throw if
key not found
 *
 * ERROR: WEBERROR error value to throw if
value not numeric
 *
 * RETURNS: integer
 *
 * ERROR: if (the pKey value is not found)
then
 *
 * ERROR: if
(NoKeyErr != NO_ERR)
 *
 * ERROR: throw CWEBCLNT_ERR(err)
 *
 * ERROR: else
 *
 * ERROR: return 0
 *
 * ERROR: else if (non-
numeric char found) then
 *
 * ERROR: if
(NotIntErr != NO_ERR) then
 *
 * ERROR: throw CWEBCLNT_ERR(err)
 *
 * ERROR: else
 *
 * ERROR: return 0
 *
 * COMMENTS: http keys are formatted either
KEY=value& or KEY=value\0. This DLL formats
 *
 * COMMENTS: TPC-C input
fields in such a manner that the keys can be
extracted in the
 *
 * COMMENTS: above manner.
 */
int GetIntKeyValue(char **pQueryString, char *pKey,
WEBERROR NoKeyErr, WEBERROR NotIntErr)
{
    char *ptr0;
    char *ptr;

    if ( !(ptr=strstr(*pQueryString, pKey)) )
        goto ErrorNoKey;
    ptr += strlen(pKey);
    if ( *ptr != '=' )
        goto ErrorNoKey;
    ptr++;

```

```

        ptr0 = ptr; // remember
starting point
        // scan string until a terminator (null or
&) or a non-digit
        while( *ptr && *ptr != '&'amp; && isdigit(*ptr)
)
            ptr++;

        // make sure we stopped scanning for the
right reason
        if ((ptr0 == ptr) || (*ptr && *ptr != '&'))
        {
            if (NotIntErr != NO_ERR)
                throw new CWEBCLNT_ERR(
NoKeyErr );
            return 0;
        }

        *pQueryString = ptr;
        return atoi(ptr0);

ErrorNoKey:
    if (NoKeyErr != NO_ERR)
        throw new CWEBCLNT_ERR( NoKeyErr
);
    return 0;
}

/* FUNCTION: TermInit
 *
 * PURPOSE: This function initializes the
client terminal structure; it is called when the
TPCC.DLL
 *
 * PURPOSE: is first loaded by the
inet service.
 *
 * COMMENTS:
 */

void TermInit(void)
{
    EnterCriticalSection(&TermCriticalSection);

    Term.iMasterSyncId = 1;
    Term.iNumEntries =
Reg.dwMaxConnections+1;

    Term.pClientData = NULL;
    Term.pClientData =
(PCLIENTDATA) malloc(Term.iNumEntries *
sizeof(CLIENTDATA));
    if (Term.pClientData == NULL)
    {
        LeaveCriticalSection(&TermCriticalSection);
        throw new CWEBCLNT_ERR(
ERR_MEM_ALLOC_FAILED );
    }

    ZeroMemory( Term.pClientData,
Term.iNumEntries * sizeof(CLIENTDATA) );

```

```

    Term.iFreeList =
Term.iNumEntries-1;
    // build free list
    // note: Term.pClientData[0].iNextFree gets
set to -1, which marks it as "in use".
    // This is intentional, as the zero
entry is used as an anchor and never
    // allocated as an actual
terminal.
    for(int i=0; i<Term.iNumEntries; i++)
        Term.pClientData[i].iNextFree =
i-1;

    LeaveCriticalSection(&TermCriticalSection);
}

/* FUNCTION: TermDeleteAll
 *
 * PURPOSE: This function frees allocated
resources associated with the terminal structure.
 *
 * ARGUMENTS: none
 *
 * RETURNS: None
 *
 * COMMENTS: This function is called only when
the inet service unloads the TPCC.DLL
 *
 * COMMENTS:
 */

void TermDeleteAll(void)
{
    EnterCriticalSection(&TermCriticalSection);

    for(int i=1; i<Term.iNumEntries; i++)
    {
        if (Term.pClientData[i].iNextFree
== -1)
            delete
Term.pClientData[i].pTxn;
    }

    Term.iFreeList = 0;
    Term.iNumEntries = 0;
    if ( Term.pClientData )
        free(Term.pClientData);
    Term.pClientData = NULL;

    LeaveCriticalSection(&TermCriticalSection);
}

/* FUNCTION: TermAdd
 *
 * PURPOSE: This function assigns a terminal
id which is used to identify a client browser.
 *
 * RETURNS: int
assigned terminal id
 *
 * COMMENTS:
 */

int TermAdd(void)
{

```

```

DWORD    i;
int       iNewTerm, iTickCount;

if (Term.iNumEntries == 0)
    return -1;

EnterCriticalSection(&TermCriticalSection);
if (Term.iFreeList != 0)
{
    // position is available
    iNewTerm = Term.iFreeList;
    Term.iFreeList =
Term.pClientData[iNewTerm].iNextFree;

    Term.pClientData[iNewTerm].iNextFree = -1;
// indicates this position is in use
}
else
{
    // no open slots, so find the
slot that hasn't been used in the longest time and
reuse it
    for (iNewTerm=1, i=1,
iTickCount=0x7FFFFFFF; i<Reg.dwMaxConnections; i++)
    {
        if (iTickCount >
Term.pClientData[i].iTickCount)
        {
            iTickCount =
Term.pClientData[i].iTickCount;
            iNewTerm = i;
        }
    }
    // if oldest term is less than
one minute old, it probably means that more
connections
// are being attempted than were
specified as "Max Connections" at install. In this
case,
// do not bump existing
connection; instead, return error to requestor.
if ((GetTickCount() - iTickCount)
< 60000)
{
    LeaveCriticalSection(&TermCriticalSection);
    throw new CWEBCLNT_ERR(
ERR_MAX_CONNECTIONS_EXCEEDED );
}

    Term.pClientData[iNewTerm].iTickCount =
GetTickCount();
    Term.pClientData[iNewTerm].iSyncId =
Term.iMasterSyncId++;
    Term.pClientData[iNewTerm].pTxn = NULL;

    LeaveCriticalSection(&TermCriticalSection);
    return iNewTerm;
}

/* FUNCTION: TermDelete
*
* PURPOSE:      This function makes a terminal
entry in the Term array available for reuse.

```

```

*
* ARGUMENTS:   int
                id
                Terminal id of client exiting
*
*/

void TermDelete(int id)
{
    if ( id > 0 && id < Term.iNumEntries )
    {
        delete Term.pClientData[id].pTxn;
        // put onto free list

        EnterCriticalSection(&TermCriticalSection);

        Term.pClientData[id].iNextFree =
Term.iFreeList;
        Term.iFreeList = id;

        LeaveCriticalSection(&TermCriticalSection);
    }

/* FUNCTION: MakeErrorForm
*/

void ErrorForm(EXTENSION_CONTROL_BLOCK *pECB, int
iType, int iErrorNum, int iTermId, int iSyncId, char
*szErrorText, char *szBuffer )
{
    wsprintf(szBuffer,
"<HTML><HEAD><TITLE>TPC-C
Error</TITLE></HEAD><BODY>"
"<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"%d\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"%d\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"TERMINID\" VALUE=\"%d\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
"    <BOLD>An Error
Occurred</BOLD><BR><BR>"
"    %s"
"    <BR><BR><HR>"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".NewOrder.\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Payment.\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Delivery.\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Order-Status.\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Stock-Level.\">"

```

```

"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Exit.\">"
"</FORM></BODY></HTML>"
, iType, iErrorNum,
MAIN_MENU_FORM, iTermId, iSyncId, szErrorText );
}

/* FUNCTION: MakeMainMenuForm
*/

void MakeMainMenuForm(int iTermId, int iSyncId, char
*szForm)
{
    wsprintf(szForm,
"<HTML><HEAD><TITLE>TPC-C Main
Menu</TITLE></HEAD><BODY>"
"Select Desired
Transaction.<BR><HR>"
"<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"0\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"TERMINID\" VALUE=\"%d\">"
"    <INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".NewOrder.\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Payment.\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Delivery.\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Order-Status.\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Stock-Level.\">"
"    <INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\".Exit.\">"
"</FORM></BODY></HTML>"
, MAIN_MENU_FORM, iTermId,
iSyncId);
}

/* FUNCTION: MakeStockLevelForm
*
* PURPOSE:      This function constructs the
Stock Level HTML page.
*
* COMMENTS:     The internal client buffer is
created when the terminal id is assigned and should
not
*                be freed
except when the client terminal id is no longer
needed.
*/

void MakeStockLevelForm(int iTermId, STOCK_LEVEL_DATA
*pStockLevelData, BOOL bInput, char *szForm)
{

```

```

int c;

c = sprintf(szForm,
"HTML<HEAD><TITLE>TPC-C Stock
Level</TITLE></HEAD><FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
"INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"0\">"
"INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
"INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
"INPUT TYPE=\"hidden\"
NAME=\"TERMINID\" VALUE=\"%d\">"
"INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
"PRE><font face=\"Courier\">
Stock-Level<BR>"
"Warehouse: %4.4d District:
%2.2d<BR> <BR>";
STOCK_LEVEL_FORM, iTermId,
Term.pClientData[iTermId].iSyncId,
Term.pClientData[iTermId].w_id,
Term.pClientData[iTermId].d_id);

if ( bInput )
{
strcpy(szForm+c,
"Stock Level Threshold:
<INPUT NAME=\"TT*\" SIZE=2><BR> <BR>"
"low stock:
</font><BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR>"
" <BR> <BR> <BR> <BR>
<BR> <BR> <BR></PRE><HR>"
"INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Process\">"
"INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Menu\">"
" </FORM></HTML>" );
}
else
{
sprintf(szForm+c,
"Stock Level Threshold:
%2.2d<BR> <BR>"
"low stock:
%3.3d</font> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR>"
" <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR></PRE><HR>"
"INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..NewOrder..\">"
"INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Payment..\">"
"INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Delivery..\">"
"INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Order-Status..\">"
"INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
"INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Exit..\">"

```

```

" </FORM></HTML>"
, pStockLevelData->low_stock);
}
}

/* FUNCTION: MakeNewOrderForm
*
* COMMENTS: The internal client buffer is
created when the terminal id is assigned and should
not
* be freed
except when the client terminal id is no longer
needed.
*/

void MakeNewOrderForm(int iTermId, NEW_ORDER_DATA
*pNewOrderData, BOOL bInput, char *szForm)
{
int i, c;
BOOL bValid;
static char szBR[] = " <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR> <BR>";

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

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

c = sprintf(szForm,
"HTML<HEAD><TITLE>TPC-C New
Order</TITLE></HEAD><BODY>"
"FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
"INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"%d\">"
"INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
"INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
"INPUT TYPE=\"hidden\"
NAME=\"TERMINID\" VALUE=\"%d\">"
"INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
"PRE><font face=\"Courier\">
New Order<BR>"
, bValid ? 0 : ERR_BAD_ITEM_ID,
NEW_ORDER_FORM, iTermId,
Term.pClientData[iTermId].iSyncId);

if ( bInput )
{
c += sprintf(szForm+c,
"Warehouse: %4.4d ", Term.pClientData[iTermId].w_id
);

```

```

"District: <INPUT
NAME=\"DID*\" SIZE=1>
Date:<BR>"
"Customer: <INPUT
NAME=\"CID*\" SIZE=4> Name:
Credit: %Disc:<BR>"
"Order Number:
Number of Lines: W_tax: D_tax:<BR>
<BR>"
" Supp_W Item_Id Item
Name Qty Stock B/G Price
Amount<BR>"
" <INPUT
NAME=\"SP00*\" SIZE=4> <INPUT NAME=\"IID00*\"
SIZE=6> <INPUT
NAME=\"Qty00*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP01*\" SIZE=4> <INPUT NAME=\"IID01*\"
SIZE=6> <INPUT
NAME=\"Qty01*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP02*\" SIZE=4> <INPUT NAME=\"IID02*\"
SIZE=6> <INPUT
NAME=\"Qty02*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP03*\" SIZE=4> <INPUT NAME=\"IID03*\"
SIZE=6> <INPUT
NAME=\"Qty03*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP04*\" SIZE=4> <INPUT NAME=\"IID04*\"
SIZE=6> <INPUT
NAME=\"Qty04*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP05*\" SIZE=4> <INPUT NAME=\"IID05*\"
SIZE=6> <INPUT
NAME=\"Qty05*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP06*\" SIZE=4> <INPUT NAME=\"IID06*\"
SIZE=6> <INPUT
NAME=\"Qty06*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP07*\" SIZE=4> <INPUT NAME=\"IID07*\"
SIZE=6> <INPUT
NAME=\"Qty07*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP08*\" SIZE=4> <INPUT NAME=\"IID08*\"
SIZE=6> <INPUT
NAME=\"Qty08*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP09*\" SIZE=4> <INPUT NAME=\"IID09*\"
SIZE=6> <INPUT
NAME=\"Qty09*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP10*\" SIZE=4> <INPUT NAME=\"IID10*\"
SIZE=6> <INPUT
NAME=\"Qty10*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP11*\" SIZE=4> <INPUT NAME=\"IID11*\"
SIZE=6> <INPUT
NAME=\"Qty11*\" SIZE=1><BR>"
" <INPUT
NAME=\"SP12*\" SIZE=4> <INPUT NAME=\"IID12*\"

```

```

SIZE=6>
NAME="Qty12*" SIZE=1><BR>"
" <INPUT
NAME="SP13*" SIZE=4> <INPUT NAME="IID13*"
SIZE=6>
NAME="Qty13*" SIZE=1><BR>"
" <INPUT
NAME="SP14*" SIZE=4> <INPUT NAME="IID14*"
SIZE=6>
NAME="Qty14*" SIZE=1><BR>"
"Execution Status:
Total:<BR>"
" </font></PRE><HR>"
" <INPUT TYPE="submit"
NAME="CMD" VALUE="Process">"
" <INPUT TYPE="submit"
NAME="CMD" VALUE="Menu">"
" </FORM></HTML>"
);
}
else
{
c += sprintf(szForm+c,
"Warehouse: %4.4d District: %2.2d
Date: ",
pNewOrderData->w_id,
pNewOrderData->d_id);
if ( bValid )
{
c += sprintf(szForm+c,
"%2.2d-%2.2d-%4.4d %2.2d:%2.2d:%2.2d",
pNewOrderData->o_entry_d.day,
pNewOrderData->o_entry_d.month,
pNewOrderData->o_entry_d.year,
pNewOrderData->o_entry_d.hour,
pNewOrderData->o_entry_d.minute,
pNewOrderData->o_entry_d.second);
}
c += sprintf(szForm+c,
"<BR>Customer: %4.4d Name: %-16s Credit: %-2s
",
pNewOrderData->c_id,
pNewOrderData->c_last, pNewOrderData->c_credit);
if ( bValid )
{
c += sprintf(szForm+c,
"%Disc: %5.2f <BR>"
"Order Number: %8.8d Number of Lines:
%2.2d W_tax: %5.2f D_tax: %5.2f <BR> <BR>"
" Supp_W Item_Id Item Name
Qty Stock B/G Price Amount<BR>",

```

```

100.0*pNewOrderData->c_discount,
pNewOrderData->o_id,
pNewOrderData->o_ol_cnt,
100.0 *
100.0 *
pNewOrderData->w_tax,
pNewOrderData->d_tax);
for(i=0;
i<pNewOrderData->o_ol_cnt; i++)
{
c +=
sprintf (szForm+c, " %4.4d %6.6d %-24s %2.2d
%3.3d %1.1s %6.2f %7.2f <BR>",
pNewOrderData->OL[i].ol_supply_w_id,
pNewOrderData->OL[i].ol_i_id,
pNewOrderData->OL[i].ol_i_name,
pNewOrderData->OL[i].ol_quantity,
pNewOrderData->OL[i].ol_stock,
pNewOrderData->OL[i].ol_brand_generic,
pNewOrderData->OL[i].ol_i_price,
pNewOrderData->OL[i].ol_amount );
}
else
{
c += sprintf(szForm+c,
"%Disc:<BR>"
"Order
W_tax:
Supp_W
B/G
Item_Id Item Name Qty Stock B/G
Price Amount<BR>"
pNewOrderData->o_id);
i = 0;
strcpy ( szForm+c, szBR, (15-i)*5
);
c += (15-i)*5;
if ( bValid )
c += sprintf(szForm+c,
"Execution Status: Transaction committed.
Total: $$8.2f ",
pNewOrderData->total_amount);
else

```

```

c += sprintf(szForm+c,
"Execution Status: Item number is not valid.
Total:");
strcpy(szForm+c,
"
<BR></font></PRE><HR>"
" <INPUT TYPE="submit"
NAME="CMD" VALUE="..NewOrder..">"
" <INPUT TYPE="submit"
NAME="CMD" VALUE="..Payment..">"
" <INPUT TYPE="submit"
NAME="CMD" VALUE="..Delivery..">"
" <INPUT TYPE="submit"
NAME="CMD" VALUE="..Order-Status..">"
" <INPUT TYPE="submit"
NAME="CMD" VALUE="..Stock-Level..">"
" <INPUT TYPE="submit"
NAME="CMD" VALUE="..Exit..">"
" </FORM></HTML>"
);
}
/* FUNCTION: MakePaymentForm
*
* COMMENTS: The internal client buffer is
created when the terminal id is assigned and should
not
* be freed
except when the client terminal id is no longer
needed.
*/
void MakePaymentForm(int iTermId, PAYMENT_DATA
*pPaymentData, BOOL bInput, char *szForm)
{
int c;
c = sprintf (szForm,
"<HTML><HEAD><TITLE>TPC-C
Payment</TITLE></HEAD><BODY>"
"<FORM ACTION="tpcc.dll"
METHOD="GET">"
" <INPUT TYPE="hidden"
NAME="STATUSID" VALUE="0">"
" <INPUT TYPE="hidden"
NAME="ERROR" VALUE="0">"
" <INPUT TYPE="hidden"
NAME="FORMID" VALUE="%">"
" <INPUT TYPE="hidden"
NAME="TERMINID" VALUE="%">"
" <INPUT TYPE="hidden"
NAME="SYNCID" VALUE="%">"
"<PRE><font face="Courier">
Payment<BR>"
"Date: "
, PAYMENT_DATA, iTermId,
Term.pClientData[iTermId].iSyncId);
if ( !bInput )
{

```

```

        c += sprintf(szForm+c, "%2.2d-
%2.2d-%4.4d %2.2d:%2.2d:%2.2d",
        pPaymentData-
>h_date.day,
        pPaymentData-
>h_date.month,
        pPaymentData-
>h_date.year,
        pPaymentData-
>h_date.hour,
        pPaymentData-
>h_date.minute,
        pPaymentData-
>h_date.second);
    }
    if ( bInput )
    {
        c += sprintf(szForm+c,
        "<BR> <BR>Warehouse:
%4.4d"
        "
        District: <INPUT NAME=\"DID*\" SIZE=1><BR> <BR> <BR>
<BR> <BR>"
        "Customer: <INPUT
NAME=\"CID*\" SIZE=4>"
        "Cust-Warehouse: <INPUT
NAME=\"CWI*\" SIZE=4> "
        "Cust-District: <INPUT
NAME=\"CDI*\" SIZE=1><BR>"
        "Name:
<INPUT NAME=\"CLT*\" SIZE=16>
Since:<BR>"
        "
        Credit:<BR>"
        "
        Disc:<BR>"
        "
        Phone:<BR> <BR>"
        "Amount Paid:
New Cust-
Balance:<BR>"
        "Credit Limit:<BR>
<BR>Cust-Data: <BR> <BR> <BR> <BR>
<BR></font></PRE><HR>"
        "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Process\"><INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Menu\">"
        "</BODY></FORM></HTML>"
        ,
        Term.pClientData[iTermId].w_id;
    }
    else
    {
        c += sprintf(szForm+c,
        "<BR> <BR>Warehouse:
%4.4d
        District: %2.2d<BR>"
        "%-20s
        "%-20s
        "%-20s
        "%-20s %2s %5.5s-%4.4s<BR> <BR>"

```

```

        "Customer: %4.4d Cust-
Warehouse: %4.4d Cust-District: %2.2d<BR>"
        "Name: %-16s %-2s %-
16s Since: %2.2d-%2.2d-%4.4d<BR>"
        "
        %-20s
        Credit: %-2s<BR>"
        ,
        Term.pClientData[iTermId].w_id, pPaymentData->d_id
        , pPaymentData-
>w_street_1, pPaymentData->d_street_1
        , pPaymentData-
>w_street_2, pPaymentData->d_street_2
        , pPaymentData->w_city,
pPaymentData->w_state, pPaymentData->w_zip,
pPaymentData->w_zip+5
        , pPaymentData->d_city,
pPaymentData->d_state, pPaymentData->d_zip,
pPaymentData->d_zip+5
        , pPaymentData->c_id,
pPaymentData->c_d_id
        , pPaymentData-
>c_first, pPaymentData->c_middle, pPaymentData-
>c_last
        , pPaymentData-
>c_since.day, pPaymentData->c_since.month,
pPaymentData->c_since.year
        , pPaymentData-
>c_street_1, pPaymentData->c_credit
        );
        c += sprintf(szForm+c,
        "
        %-20s
        %%Disc: %5.2f<BR>"
        "
        pPaymentData-
>c_street_2, 100.0*pPaymentData->c_discount);
        c += sprintf(szForm+c,
        "
        %-20s %-2s
        %5.5s-%4.4s Phone: %6.6s-%3.3s-%3.3s-%4.4s<BR>
<BR>"
        , pPaymentData->c_city,
pPaymentData->c_state, pPaymentData->c_zip,
pPaymentData->c_zip+5,
        pPaymentData->c_phone,
pPaymentData->c_phone+6, pPaymentData->c_phone+9,
pPaymentData->c_phone+12 );
        c += sprintf(szForm+c,
        "Amount Paid:
%$7.2f New Cust-Balance: %$14.2f<BR>"
        "Credit Limit:
%$13.2f<BR> <BR>"
        , pPaymentData-
>h_amount, pPaymentData->c_balance
        , pPaymentData-
>c_credit_lim
        );
        if ( pPaymentData->c_credit[0] ==
'B' && pPaymentData->c_credit[1] == 'C' )
            c += sprintf(szForm+c,

```

```

        "Cust-Data: %-50.50s<BR>
50.50s<BR>
50.50s<BR>"
        ,
        pPaymentData->c_data, pPaymentData-
>c_data+50, pPaymentData->c_data+100, pPaymentData-
>c_data+150 );
        else
            strcpy(szForm+c, "Cust-
Data: <BR> <BR> <BR> <BR>");
        strcat(szForm,
        "
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..NewOrder..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Payment..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Delivery..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Order-Status..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Stock-Level..\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\"
VALUE=\"..Exit..\">"
        "</BODY></FORM></HTML>");
    }
}
/* FUNCTION: MakeOrderStatusForm
*
* COMMENTS: The internal client buffer is
created when the terminal id is assigned and should
not
* be freed
* except when the client terminal id is no longer
needed.
*/
void MakeOrderStatusForm(int iTermId,
ORDER_STATUS_DATA *pOrderStatusData, BOOL bInput,
char *szForm)
{
    int i, c;
    static char szBR[] = " <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR>";
    c = sprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C Order-
Status</TITLE></HEAD><BODY>"
        "<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"

```

```

        "<INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\"
NAME=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
        "<PRE><font face=\"Courier\">
Order-Status<BR>"
        "Warehouse: %4.4d ",
        ORDER_STATUS_FORM, iTermId,
Term.pClientData[iTermId].iSyncId,
Term.pClientData[iTermId].w_id);

        if ( bInput )
        {
            strcpy(szForm+c,
                "District: <INPUT
NAME=\"DID*\" SIZE=1><BR>"
                "Customer: <INPUT
NAME=\"CID*\" SIZE=4> Name:
<INPUT NAME=\"CLT*\" SIZE=23><BR>"
                "Cust-Balance:<BR>
<BR>"
                "Order-Number:
                Carrier-
Entry-Date:
Number:<BR>"
                "Supply-W Item-Id
Qty Amount Delivery-Date<BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> <BR> <BR> </font></PRE>"
                "<HR><INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Process\"><INPUT
TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">"
                "</BODY></FORM></HTML\"");
        }
        else
        {
            c += sprintf(szForm+c,
                "District: %2.2d<BR>"
                "Customer: %4.4d
Name: %16s %2s %16s<BR>",
                pOrderStatusData->d_id,
                pOrderStatusData->c_id,
                pOrderStatusData->c_first, pOrderStatusData->c_middle,
                pOrderStatusData->c_last);
            c += sprintf(szForm+c, "Cust-
Balance: %9.2f<BR> <BR>",
                pOrderStatusData->c_balance);
            c += sprintf(szForm+c,
                "Order-Number: %8.8d
Entry-Date: %2.2d-%2.2d-%4.4d %2.2d:%2.2d:%2.2d
Carrier-Number: %2.2d<BR>"

```

```

        "Supply-W Item-Id
Qty Amount Delivery-Date<BR>",
        pOrderStatusData->o_id,
        pOrderStatusData->o_entry_d.day,
        pOrderStatusData->o_entry_d.month,
        pOrderStatusData->o_entry_d.year,
        pOrderStatusData->o_entry_d.hour,
        pOrderStatusData->o_entry_d.minute,
        pOrderStatusData->o_entry_d.second,
        pOrderStatusData->o_carrier_id);
        for(i=0; i< pOrderStatusData->o_ol_cnt; i++)
        {
            c += sprintf(szForm+c,
                "%4.4d %6.6d %2.2d %9.2f %2.2d-
%2.2d-%4.4d<BR>",
                pOrderStatusData->OL[i].ol_supply_w_id,
                pOrderStatusData->OL[i].ol_i_id,
                pOrderStatusData->OL[i].ol_quantity,
                pOrderStatusData->OL[i].ol_amount,
                pOrderStatusData->OL[i].ol_delivery_d.day,
                pOrderStatusData->OL[i].ol_delivery_d.month,
                pOrderStatusData->OL[i].ol_delivery_d.year);
        }
        strcpy( szForm+c, szBR, (15-i)*5 );
        c += (15-i)*5;
        strcpy(szForm+c,
            "</font></PRE><HR><INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..NewOrder..\">"
            "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Payment..\">"
            "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Delivery..\">"
            "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Order-Status..\">"
            "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Stock-Level..\">"
            "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"..Exit..\">"
            "</BODY></FORM></HTML\"");
    };
}

```

```

}
/* FUNCTION: MakeDeliveryForm
*
* COMMENTS: The internal client buffer is
created when the terminal id is assigned and should
not
* be freed
except when the client terminal id is no longer
needed.
*/
void MakeDeliveryForm(int iTermId, DELIVERY_DATA
*pDeliveryData, BOOL bInput, char *szForm)
{
    int c;
    c = sprintf(szForm,
        "<HTML><HEAD><TITLE>TPC-C
Delivery</TITLE></HEAD><BODY>"
        "<FORM ACTION=\"tpcc.dll\"
METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\"
NAME=\"STATUSID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\"
NAME=\"ERROR\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\"
NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\"
NAME=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\"
NAME=\"SYNCID\" VALUE=\"%d\">"
        "<PRE><font face=\"Courier\">
Delivery<BR>"
        "Warehouse: %4.4d<BR> <BR>",
        (!bInput && (pDeliveryData->exec_status_code != eOK)) ? ERR_TYPE_DELIVERY_POST :
        0,
        DELIVERY_FORM, iTermId,
        Term.pClientData[iTermId].iSyncId,
        Term.pClientData[iTermId].w_id);
    if ( bInput )
    {
        strcpy( szForm+c,
            "Carrier Number: <INPUT
NAME=\"OCD*\" SIZE=1><BR> <BR>"
            "Execution Status: <BR>
<BR> <BR> <BR> <BR> <BR> <BR>
" <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> </font></PRE><HR>"
            "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Process\">"
            "<INPUT TYPE=\"submit\"
NAME=\"CMD\" VALUE=\"Menu\">"
            "</BODY></FORM></HTML\"");
    }
    else
    {
        sprintf( szForm+c,
            "Carrier Number:
%2.2d<BR> <BR>"

```

```

"Execution Status: %s
<BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
" <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR> <BR>
<BR> <BR> <BR> <BR> </font></PRE>"
"<HR><INPUT
TYPE="submit" NAME="CMD" VALUE="..NewOrder..">"
"<INPUT TYPE="submit\"
NAME="CMD" VALUE="..Payment..">"
"<INPUT TYPE="submit\"
NAME="CMD" VALUE="..Delivery..">"
"<INPUT TYPE="submit\"
NAME="CMD" VALUE="..Order-Status..">"
"<INPUT TYPE="submit\"
NAME="CMD" VALUE="..Stock-Level..">"
"<INPUT TYPE="submit\"
NAME="CMD" VALUE="..Exit..">"
"</BODY></FORM></HTML>"
, pDeliveryData-
(pDeliveryData-
>exec_status_code == eOK) ? "Delivery has been
queued." : "Delivery Post Failed "
);
}
}
/* FUNCTION: ProcessNewOrderForm
*
* PURPOSE: This function gets and validates
the input data from the new order form
* filling in the required
input variables. it then calls the SQLNewOrder
transaction, constructs
the output form and writes it back to client
browser.
*/
void ProcessNewOrderForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer)
{
PNEW_ORDER_DATA pNewOrder;
pNewOrder = Term.pClientData[iTermId].pTxn-
>BuffAddr_NewOrder();
ZeroMemory(pNewOrder,
sizeof(NEW_ORDER_DATA));
pNewOrder->w_id =
Term.pClientData[iTermId].w_id;
GetNewOrderData(pECB->lpszQueryString,
pNewOrder);
Term.pClientData[iTermId].pTxn->NewOrder();
pNewOrder = Term.pClientData[iTermId].pTxn-
>BuffAddr_NewOrder();
MakeNewOrderForm(iTermId, pNewOrder,
OUTPUT_FORM, szBuffer);
}
/* FUNCTION: void ProcessPaymentForm
*

```

```

* PURPOSE: This function gets and validates
the input data from the payment form
* filling in the required
input variables. It then calls the SQLPayment
transaction, constructs
the output form and writes it back to client
browser.
*
* ARGUMENTS: EXTENSION_CONTROL_BLOCK
*pECB passed in structure pointer from
inetsrv.
* int
* iTermId client browser terminal id
*/
void ProcessPaymentForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer)
{
PPAYMENT_DATA pPayment;
pPayment = Term.pClientData[iTermId].pTxn-
>BuffAddr_Payment();
ZeroMemory(pPayment, sizeof(PAYMENT_DATA));
pPayment->w_id =
Term.pClientData[iTermId].w_id;
GetPaymentData(pECB->lpszQueryString,
pPayment);
Term.pClientData[iTermId].pTxn->Payment();
pPayment = Term.pClientData[iTermId].pTxn-
>BuffAddr_Payment();
MakePaymentForm(iTermId, pPayment,
OUTPUT_FORM, szBuffer);
}
/* FUNCTION: ProcessOrderStatusForm
*
* PURPOSE: This function gets and validates
the input data from the Order Status
form filling in the
required input variables. It then calls the
SQLOrderStatus
transaction, constructs the output form and writes it
back to client browser.
*
* ARGUMENTS: EXTENSION_CONTROL_BLOCK
*pECB passed in structure pointer from
inetsrv.
* int
* iTermId client browser terminal id
*/
void ProcessOrderStatusForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer)
{
PORDER_STATUS_DATA pOrderStatus;

```

```

pOrderStatus =
Term.pClientData[iTermId].pTxn-
>BuffAddr_OrderStatus();
ZeroMemory(pOrderStatus,
sizeof(ORDER_STATUS_DATA));
pOrderStatus->w_id =
Term.pClientData[iTermId].w_id;
GetOrderStatusData(pECB->lpszQueryString,
pOrderStatus);
Term.pClientData[iTermId].pTxn-
>OrderStatus();
pOrderStatus =
Term.pClientData[iTermId].pTxn-
>BuffAddr_OrderStatus();
MakeOrderStatusForm(iTermId, pOrderStatus,
OUTPUT_FORM, szBuffer);
}
/* FUNCTION: ProcessDeliveryForm
*
* PURPOSE: This function gets and validates
the input data from the delivery form
* filling in the required
input variables. It then calls the PostDeliveryInfo
Api, The client is then
informed that the transaction has been posted.
*
* ARGUMENTS: EXTENSION_CONTROL_BLOCK
*pECB passed in structure pointer from
inetsrv.
* int
* iTermId client browser terminal id
*/
void ProcessDeliveryForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer)
{
char *ptr = pECB->lpszQueryString;
PDELIVERY_DATA pDelivery;
pDelivery = Term.pClientData[iTermId].pTxn-
>BuffAddr_Delivery();
ZeroMemory(pDelivery,
sizeof(DELIVERY_DATA));
pDelivery->w_id =
Term.pClientData[iTermId].w_id;
pDelivery->o_carrier_id =
GetIntKeyValue(&ptr, "OCD*",
ERR_DELIVERY_MISSING_OCD_KEY,
ERR_DELIVERY_CARRIER_INVALID);
if ( pDelivery->o_carrier_id > 10 ||
pDelivery->o_carrier_id < 1 )
throw new CWBCLNT_ERR(
ERR_DELIVERY_CARRIER_ID_RANGE );
if (dwNumDeliveryThreads)
{

```



```

        //post delivery info
        if ( PostDeliveryInfo(pDelivery-
>w_id, pDelivery->o_carrier_id) )
            pDelivery-
>exec_status_code = eDeliveryFailed;
        else
            pDelivery-
>exec_status_code = eOK;
    }
    else // delivery is done synchronously if
no delivery threads configured
        Term.pClientData[iTermId].pTxn-
>Delivery();

    pDelivery = Term.pClientData[iTermId].pTxn-
>BuffAddr_Delivery();
    MakeDeliveryForm(iTermId, pDelivery,
OUTPUT_FORM, szBuffer);
}

/* FUNCTION: ProcessStockLevelForm
*
* PURPOSE: This function gets and validates
the input data from the Stock Level
*           form filling in the
required input variables. It then calls the
SQLStockLevel
transaction, constructs the output form and writes it
back to client browser.
*
* ARGUMENTS: EXTENSION_CONTROL_BLOCK
*PECB passed in structure pointer from
inetsrv.
*           int
*           iTermId client browser terminal id
*/

void ProcessStockLevelForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer)
{
    char *ptr = pECB-
>lpszQueryString;

    PSTOCK_LEVEL_DATA pStockLevel;

    pStockLevel =
Term.pClientData[iTermId].pTxn-
>BuffAddr_StockLevel();
    ZeroMemory( pStockLevel,
sizeof( STOCK_LEVEL_DATA ) );

    pStockLevel->w_id =
Term.pClientData[iTermId].w_id;
    pStockLevel->d_id =
Term.pClientData[iTermId].d_id;

    pStockLevel->threshold =
GetIntKeyValue(&ptr, "TT*",
ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
ERR_STOCKLEVEL_THRESHOLD_INVALID);

```

```

        if ( pStockLevel->threshold >= 100 ||
pStockLevel->threshold < 0 )
            throw new CWBCLNT_ERR(
ERR_STOCKLEVEL_THRESHOLD_RANGE );

    Term.pClientData[iTermId].pTxn-
>StockLevel();

    pStockLevel =
Term.pClientData[iTermId].pTxn-
>BuffAddr_StockLevel();
    MakeStockLevelForm(iTermId, pStockLevel,
OUTPUT_FORM, szBuffer);
}

/* FUNCTION: GetNewOrderData
*
* PURPOSE: This function extracts and
validates the new order form data from an http
command string.
*
* ARGUMENTS: LPSTR client
lpszQueryString browser http command string
*
NEW_ORDER_DATA *pNewOrderData
pointer to new order data structure
*
*/

void GetNewOrderData(LPSTR lpszQueryString,
NEW_ORDER_DATA *pNewOrderData)
{
    char szTmp[26];
    int i;
    short items;
    int ol_i_id, ol_quantity;
    char *ptr = lpszQueryString;

    static char szSP[MAX_OL_NEW_ORDER_ITEMS][6]
=
"SP03*", "SP04*", {"SP00*", "SP01*", "SP02*",
"SP08*", "SP09*", "SP05*", "SP06*", "SP07*",
"SP13*", "SP14*"};
    static char
szIID[MAX_OL_NEW_ORDER_ITEMS][7] =
{"IID00*", "IID01*", "IID02*",
"IID03*", "IID04*", "IID05*", "IID06*", "IID07*",
"IID08*", "IID09*", "IID10*", "IID11*", "IID12*",
"IID13*", "IID14*"};
    static char
szQty[MAX_OL_NEW_ORDER_ITEMS][7] =
"Qty03*", "Qty04*", {"Qty00*", "Qty01*", "Qty02*",
"Qty08*", "Qty09*", "Qty05*", "Qty06*", "Qty07*",
"Qty13*", "Qty14*"};

```

```

    pNewOrderData->d_id = GetIntKeyValue(&ptr,
"DID*", ERR_NEWORDER_FORM_MISSING_DID,
ERR_NEWORDER_DISTRICT_INVALID);
    pNewOrderData->c_id = GetIntKeyValue(&ptr,
"CID*", ERR_NEWORDER_CUSTOMER_KEY,
ERR_NEWORDER_CUSTOMER_INVALID);

    for(i=0, items=0; i<MAX_OL_NEW_ORDER_ITEMS;
i++)
    {
        GetKeyValue(&ptr, szSP[i], szTmp,
sizeof(szTmp), ERR_NEWORDER_MISSING_SUPPW_KEY);
        if ( szTmp[0] )
        {
            if ( !IsNumeric(szTmp)
throw new
CWBCLNT_ERR( ERR_NEWORDER_SUPPW_INVALID );
            pNewOrderData-
>OL[items].ol_supply_w_id = (short)atoi(szTmp);

            ol_i_id =
pNewOrderData->OL[items].ol_i_id =
GetIntKeyValue(&ptr, szIID[i],
ERR_NEWORDER_MISSING_IID_KEY,
ERR_NEWORDER_ITEMID_INVALID);
            if ( ol_i_id > 999999
|| ol_i_id < 1 )
                throw new
CWBCLNT_ERR( ERR_NEWORDER_ITEMID_RANGE );

            ol_quantity =
pNewOrderData->OL[items].ol_quantity =
GetIntKeyValue(&ptr, szQty[i],
ERR_NEWORDER_MISSING_QTY_KEY,
ERR_NEWORDER_QTY_INVALID);
            if ( ol_quantity > 99
|| ol_quantity < 1 )
                throw new
CWBCLNT_ERR( ERR_NEWORDER_QTY_RANGE );

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

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

```

```

    }
    if ( items == 0 )
        throw new CWBCLNT_ERR(
ERR_NEWORDER_NOITEMS_ENTERED );
    pNewOrderData->o_ol_cnt = items;
}

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

void GetPaymentData(LPSTR lpszQueryString,
PAYMENT_DATA *pPaymentData)
{
    char    szTmp[26];
    char    *ptr = lpszQueryString;
    BOOL    bCustIdBlank;

    pPaymentData->d_id = GetIntKeyValue(&ptr,
"DID*", ERR_PAYMENT_MISSING_DID_KEY,
ERR_PAYMENT_DISTRICT_INVALID);

    GetKeyValue(&ptr, "CID*", szTmp,
sizeof(szTmp), ERR_PAYMENT_MISSING_CID_KEY);
    if ( szTmp[0] == 0 )
    {
        bCustIdBlank = TRUE;
        pPaymentData->c_id = 0;
    }
    else
    {
        // parse customer id and verify
that last name was NOT entered
        bCustIdBlank = FALSE;
        if ( !IsNumeric(szTmp) )
            throw new CWBCLNT_ERR(
ERR_PAYMENT_CUSTOMER_INVALID );
        pPaymentData->c_id = atoi(szTmp);
    }

    pPaymentData->c_w_id = GetIntKeyValue(&ptr,
"CWI*", ERR_PAYMENT_MISSING_CWI_KEY,
ERR_PAYMENT_CWI_INVALID);
    pPaymentData->c_d_id = GetIntKeyValue(&ptr,
"CDI*", ERR_PAYMENT_MISSING_CDI_KEY,
ERR_PAYMENT_CDI_INVALID);

    if ( bCustIdBlank )
    {
        // customer id is blank, so last
name must be entered
        GetKeyValue(&ptr, "CLT*", szTmp,
sizeof(szTmp), ERR_PAYMENT_MISSING_CLT_KEY);

```

```

        if ( szTmp[0] == 0 )
            throw new CWBCLNT_ERR(
ERR_PAYMENT_MISSING_CID_CLT );
        _strupr( szTmp );
        if ( strlen(pPaymentData->c_last)
> LAST_NAME_LEN )
            throw new CWBCLNT_ERR(
ERR_PAYMENT_LAST_NAME_TO_LONG );
        strcpy(pPaymentData->c_last,
szTmp);
    }
    else
    {
        // parse customer id and verify
that last name was NOT entered
        GetKeyValue(&ptr, "CLT*", szTmp,
sizeof(szTmp), ERR_PAYMENT_MISSING_CLT_KEY);
        if ( szTmp[0] != 0 )
            throw new CWBCLNT_ERR(
ERR_PAYMENT_CID_AND_CLT );
    }

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

/* FUNCTION: GetOrderStatusData
 *
 * PURPOSE:      This function extracts and
validates the payment form data from an http command
string.
 *
 * ARGUMENTS:   LPSTR lpszQueryString,
                ORDER_STATUS_DATA *pOrderStatusData)
 */
void GetOrderStatusData(LPSTR lpszQueryString,
ORDER_STATUS_DATA *pOrderStatusData)
{
    char    szTmp[26];
    char    *ptr = lpszQueryString;

    pOrderStatusData->d_id =
GetIntKeyValue(&ptr, "DID*",
ERR_ORDERSTATUS_MISSING_DID_KEY,
ERR_ORDERSTATUS_DID_INVALID);

    GetKeyValue(&ptr, "CID*", szTmp,
sizeof(szTmp), ERR_ORDERSTATUS_MISSING_CID_KEY);
    if ( szTmp[0] == 0 )
    {
        // customer id is blank, so last
name must be entered
        pOrderStatusData->c_id = 0;
        GetKeyValue(&ptr, "CLT*", szTmp,
sizeof(szTmp), ERR_ORDERSTATUS_MISSING_CLT_KEY);
        if ( szTmp[0] == 0 )
            throw new CWBCLNT_ERR(
ERR_ORDERSTATUS_MISSING_CID_CLT );

```

```

        _strupr( szTmp );
        if ( strlen(pOrderStatusData-
>c_last) > LAST_NAME_LEN )
            throw new CWBCLNT_ERR(
ERR_ORDERSTATUS_CLT_RANGE );
        strcpy(pOrderStatusData->c_last,
szTmp);
    }
    else
    {
        // parse customer id and verify
that last name was NOT entered
        if ( !IsNumeric(szTmp) )
            throw new CWBCLNT_ERR(
ERR_ORDERSTATUS_CID_INVALID );
        pOrderStatusData->c_id =
atoi(szTmp);
        GetKeyValue(&ptr, "CLT*", szTmp,
sizeof(szTmp), ERR_ORDERSTATUS_MISSING_CLT_KEY);
        if ( szTmp[0] != 0 )
            throw new CWBCLNT_ERR(
ERR_ORDERSTATUS_CID_AND_CLT );
    }
}

/* FUNCTION: BOOL IsNumeric(char *ptr)
 *
 * PURPOSE:      This function determines if a
string is numeric. It fails if any characters other
than numeric and null
terminator are present.
 *
 * ARGUMENTS:   char
                *ptr      pointer to string to check.
 *
 * RETURNS:     BOOL      FALSE    if
string is not all numeric
                TRUE      if string contains only numeric
characters i.e. '0' - '9'
 */
BOOL IsNumeric(char *ptr)
{
    if ( *ptr == 0 )
        return FALSE;

    while( *ptr && !isdigit(*ptr) )
        ptr++;
    return ( !*ptr );
}

/* FUNCTION: BOOL IsDecimal(char *ptr)
 *
 * PURPOSE:      This function determines if a
string is a non-negative decimal value.
 *
 * It fails if any characters other than a
series of numbers followed by
                a decimal point,
another series of numbers, and a null terminator are
present.
 *

```

```

* ARGUMENTS:      char
                  *ptr      pointer to string to check.
*
* RETURNS:        BOOL      FALSE   if
string is not a valid non-negative decimal value
*
                  TRUE       if string is OK
*/

BOOL IsDecimal(char *ptr)
{
    char *dotptr;
    BOOL  bValid;

    if ( *ptr == 0 )
        return FALSE;

    // find decimal point
    dotptr = strchr( ptr, '.' );
    if (dotptr == NULL)
        // no decimal point, so just
        // check for numeric
        return IsNumeric(ptr);
    *dotptr = 0; // temporarily replace
    decimal with a terminator

    if ( *ptr != 0 )
        bValid = IsNumeric(ptr);
    // string starts with decimal point
    else if (*(dotptr+1) == 0)
        return FALSE; // nothing but a
    decimal point is bad
    else
        bValid = TRUE;

    if (*(dotptr+1) != 0)
        // check text after decimal point
        bValid &= IsNumeric(dotptr+1);

    *dotptr = '.'; // replace decimal point
    return bValid;
}

```

tpcc.def

LIBRARY TPCC.DLL

EXPORTS

```

GetExtensionVersion @1
HttpExtensionProc   @2
TerminateExtension  @3

```

tpcc.h

```

/*      FILE:      TPCC.H

```

```

*
*      Microsoft
TPC-C Kit Ver. 4.20.000
*
*      Copyright
Microsoft, 1999
*
*      All Rights Reserved
*
*
*      Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
*
*      PURPOSE:  Header file for ISAPI TPCC.DLL,
defines structures and functions used in the isapi
tpcc.dll.
*
*/

//VERSION RESOURCE DEFINES
#define _APS_NEXT_RESOURCE_VALUE        101
#define _APS_NEXT_COMMAND_VALUE        40001
#define _APS_NEXT_CONTROL_VALUE        1000
#define _APS_NEXT_SYMED_VALUE          101

#define TP_MAX_RETRIES                    50

//note that the welcome form must be processed first
as terminal ids assigned here, once the
//terminal id is assigned then the forms can be
processed in any order.
#define WELCOME_FORM                       1
//beginning form no term id assigned, form
id
#define MAIN_MENU_FORM                     2
//term id assigned main menu form id
#define NEW_ORDER_FORM                     3
//new order form id
#define PAYMENT_FORM                       4
//payment form id
#define DELIVERY_FORM                      5
//delivery form id
#define ORDER_STATUS_FORM                  6
//order
status id
#define STOCK_LEVEL_FORM                   7
//stock level
form id

//This macro is used to prevent the compiler error
unused formal parameter
#define UNUSEDPARAM(x) (x = x)

```

```

//This structure defines the data necessary to keep
distinct for each terminal or client connection.
typedef struct _CLIENTDATA
{
    int                iNextFree;
//index of
next free element or -1 if this entry in use.
    int                w_id;
//warehouse
id assigned at welcome form
    int                d_id;
//district id
assigned at welcome form
    int                iSyncId;
//synchronization id
    int                iTickCount;
//time of
last access;
    CTPCC_BASE         *pTxn;
} CLIENTDATA, *PCLIENTDATA;

//This structure is used to define the operational
interface for terminal id support
typedef struct _TERM
{
    int                iNumEntries;
//total allocated terminal array entries
    int                iFreeList;
//next available terminal array element or
-1 if none
    int                iMasterSyncId;
//synchronization id
    CLIENTDATA         *pClientData;
//pointer to
allocated client data
} TERM;
typedef TERM *PTERM;
//pointer to
terminal structure type

enum WEBERROR
{
    NO_ERR,
    ERR_COMMAND_UNDEFINED,
    ERR_D_ID_INVALID,
    ERR_DELIVERY_CARRIER_ID_RANGE,
    ERR_DELIVERY_CARRIER_INVALID,
    ERR_DELIVERY_MISSING_OCD_KEY,
    ERR_DELIVERY_THREAD_FAILED,
    ERR_GETPROCADDR_FAILED,
    ERR_HTML_ILL_FORMED,
    ERR_INVALID_SYNC_CONNECTION,
    ERR_INVALID_TERMID,
    ERR_LOADDLL_FAILED,

```

```

ERR_MAX_CONNECTIONS_EXCEEDED,
ERR_MEM_ALLOC_FAILED,
ERR_MISSING_REGISTRY_ENTRIES,
ERR_NEWORDER_CUSTOMER_INVALID,
ERR_NEWORDER_CUSTOMER_KEY,
ERR_NEWORDER_DISTRICT_INVALID,
ERR_NEWORDER_FORM_MISSING_DID,
ERR_NEWORDER_ITEMID_INVALID,
ERR_NEWORDER_ITEMID_RANGE,

ERR_NEWORDER_ITEMID_WITHOUT_SUPPW,
ERR_NEWORDER_MISSING_IID_KEY,
ERR_NEWORDER_MISSING_QTY_KEY,
ERR_NEWORDER_MISSING_SUPPW_KEY,
ERR_NEWORDER_NOITEMS_ENTERED,
ERR_NEWORDER_QTY_INVALID,
ERR_NEWORDER_QTY_RANGE,
ERR_NEWORDER_QTY_WITHOUT_SUPPW,
ERR_NEWORDER_SUPPW_INVALID,
ERR_NO_SERVER_SPECIFIED,
ERR_ORDERSTATUS_CID_AND_CLT,
ERR_ORDERSTATUS_CID_INVALID,
ERR_ORDERSTATUS_CLT_RANGE,
ERR_ORDERSTATUS_DID_INVALID,
ERR_ORDERSTATUS_MISSING_CID_CLT,
ERR_ORDERSTATUS_MISSING_CID_KEY,
ERR_ORDERSTATUS_MISSING_CLT_KEY,
ERR_ORDERSTATUS_MISSING_DID_KEY,
ERR_PAYMENT_CDI_INVALID,
ERR_PAYMENT_CID_AND_CLT,
ERR_PAYMENT_CUSTOMER_INVALID,
ERR_PAYMENT_CWI_INVALID,
ERR_PAYMENT_DISTRICT_INVALID,
ERR_PAYMENT_HAM_INVALID,
ERR_PAYMENT_HAM_RANGE,
ERR_PAYMENT_LAST_NAME_TO_LONG,
ERR_PAYMENT_MISSING_CDI_KEY,
ERR_PAYMENT_MISSING_CID_CLT,
ERR_PAYMENT_MISSING_CID_KEY,
ERR_PAYMENT_MISSING_CLT,
ERR_PAYMENT_MISSING_CLT_KEY,
ERR_PAYMENT_MISSING_CWI_KEY,
ERR_PAYMENT_MISSING_DID_KEY,
ERR_PAYMENT_MISSING_HAM_KEY,

ERR_STOCKLEVEL_MISSING_THRESHOLD_KEY,
ERR_STOCKLEVEL_THRESHOLD_INVALID,
ERR_STOCKLEVEL_THRESHOLD_RANGE,
ERR_VERSION_MISMATCH,
ERR_W_ID_INVALID
};

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

```

```

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

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

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

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

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

//function prototypes

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

```

```

void ProcessCmd(EXTENSION_CONTROL_BLOCK *pECB, int
iFormId, int iTermId);
void StatsCmd(EXTENSION_CONTROL_BLOCK *pECB, char
*szBuffer);
void ErrorMessage(EXTENSION_CONTROL_BLOCK *pECB, int
iError, int iErrorType, char *szMsg, int iTermId);
void GetKeyValue(char **pQueryString, char *pKey,
char *pValue, int iMax, WEBERROR err);
int GetIntKeyValue(char **pQueryString, char *pKey,
WEBERROR NoKeyErr, WEBERROR NotIntErr);
void TermInit(void);
void TermDeleteAll(void);
int TermAdd(void);
void TermDelete(int id);
void ErrorForm(EXTENSION_CONTROL_BLOCK *pECB, int
iType, int iErrorNum, int iTermId, int iSyncId, char
*szErrorText, char *szBuffer );
void MakeMainMenuForm(int iTermId, int iSyncId, char
*szForm);
void MakeStockLevelForm(int iTermId, STOCK_LEVEL_DATA
*pStockLevelData, BOOL bInput, char *szForm);
void MakeNewOrderForm(int iTermId, NEW_ORDER_DATA
*pNewOrderData, BOOL bInput, char *szForm);
void MakePaymentForm(int iTermId, PAYMENT_DATA
*pPaymentData, BOOL bInput, char *szForm);
void MakeOrderStatusForm(int iTermId,
ORDER_STATUS_DATA *pOrderStatusData, BOOL bInput,
char *szForm);
void MakeDeliveryForm(int iTermId, DELIVERY_DATA
*pDeliveryData, BOOL bInput, char *szForm);
void ProcessNewOrderForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void ProcessPaymentForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void ProcessOrderStatusForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void ProcessDeliveryForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void ProcessStockLevelForm(EXTENSION_CONTROL_BLOCK
*pECB, int iTermId, char *szBuffer);
void GetNewOrderData(LPSTR lpszQueryString,
NEW_ORDER_DATA *pNewOrderData);
void GetPaymentData(LPSTR lpszQueryString,
PAYMENT_DATA *pPaymentData);
void GetOrderStatusData(LPSTR lpszQueryString,
ORDER_STATUS_DATA *pOrderStatusData);
BOOL PostDeliveryInfo(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
#endif // APSTUDIO_INVOKED

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

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

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

```

Tpcc.ubb

```

*RESOURCES
IPCKEY 133133

MAXACCESSERS 500
MAXSERVERS 100
MAXSERVICES 100
MODEL SHM
MASTER Master
LDBAL Y
SCANUNIT 15
BLOCKTIME 60
BBLQUERY 60

*MACHINES
DEFAULT:
IIS_NODE LMID= Master
TUXDIR="C:\tuxedo"
APPDIR="C:\InetPub\wwwroot"
TUXCONFIG="C:\InetPub\wwwroot\tuxconfig"
ULOGFPX="C:\InetPub\wwwroot\ULOG"
TYPE="WinNT"
UID= 0
GID= 0

*GROUPS
GROUPNO
LMID=Master GRPNO=1 OPENINFO=NONE

GROUPPAY
LMID=Master GRPNO=2 OPENINFO=NONE

GROUPOS

```

```

LMID=Master GRPNO=3 OPENINFO=NONE
GROUPSL LMID=Master GRPNO=4 OPENINFO=NONE
GROUPDEL LMID=Master GRPNO=5 OPENINFO=NONE
*SERVERS
DEFAULT:
tuxapp SRVGRP=GROUPNO
SRVID=100
MIN=2 MAX=10
CLOPT="-s NEWORDER -- -Sdbserver"
RQADDR=newq REPLYQ=Y
tuxapp SRVGRP=GROUPPAY
SRVID=200
MIN=2 MAX=10
CLOPT="-s PAYMENT -- -Sdbserver"
RQADDR=payq REPLYQ=Y
tuxapp SRVGRP=GROUPOS
SRVID=300
MIN=1 MAX=2
CLOPT="-s ORDERSTATUS -- -Sdbserver"
RQADDR=ordq REPLYQ=Y
tuxapp SRVGRP=GROUPSL
SRVID=400
MIN=2 MAX=5
CLOPT="-s STOCKLEVEL -- -Sdbserver"
RQADDR=stkq REPLYQ=Y
tuxapp SRVGRP=GROUPDEL
SRVID=500
MIN=1 MAX=5
CLOPT="-s DELIVERY -- -Sdbserver"
RQADDR=delq REPLYQ=N
*SERVICES

```

tpcc_com.cpp

```

/* FILE: TPC_C_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)

```

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*
* 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;
COINIT_MULTITHREADED);
if (FAILED(hr))
{
throw new CCOMERR( hr );
}
}

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// 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);
}
}

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        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);

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```

        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: TPC_COM.H
 * Microsoft
 * TPC-C Kit Ver. 4.20.000
 * Copyright
 * Microsoft, 1999
 * All Rights Reserved
 *
 * not yet
 * audited
 *
 * PURPOSE: Header file for TPC-C COM+ class
 * implementation.
 * Change history:
 * 4.20.000 - first version
 */

#pragma once

#include <stdio.h>
#include "..\..\tpcc_com_ps\src\tpcc_com_ps.h"

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

class CCOMERR : public CBaseErr

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{
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 =
        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)

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        {
                pUnk->Release();
                pUnk = NULL;
        }
}

// wrapper routine for class constructor
extern "C" __declspec(dllexport) CTPCC_COM*
CTPCC_COM_new(BOOL);

typedef CTPCC_COM* (TYPE_CTPCC_COM)(BOOL);

tpcc_com_all.cpp

/*      FILE:          TPCC_COM_ALL.CPP
 *      Microsoft
 *      TPC-C Kit Ver. 4.20.000
 *      Copyright
 *      Microsoft, 1999
 *      All Rights Reserved
 *      Version
 *      4.10.000 audited by Richard Gimarc, Performance
 *      Metrics, 3/17/99
 *
 *      PURPOSE:  Implementation for TPC-C Tuxedo
 *      class.
 *      Contact:  Charles Levine
 *      (clevine@microsoft.com)
 *
 *      Change history:
 *      4.20.000 - updated rev number to
 *      match kit
 */

#define STRICT
#define WIN32_WINNT 0x0400
#define ATL_APARTMENT_THREADED

#include <stdio.h>
#include <atbase.h>
//You may derive a class from CComModule and use it
if you want to override
//something, but do not change the name of _Module
extern CComModule _Module;

#include <atlcom.h>
#include <initguid.h>
#include <transact.h>
#include <atlimpl.cpp>
#include <comsvcs.h>

#include <sqltypes.h>
#include <sql.h>
#include <sqlext.h>

#include "tpcc_com_ps.h"
#include "..\..\common\src\trans.h"
//tpckit transaction

```

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header contains definitions of structures specific to
TPC-C
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\error.h"
#include "..\..\common\src\ReadRegistry.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h"
// DBLIB implementation of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h"
// ODBC implementation of TPC-C txns

#include "resource.h"
#include "tpcc_com_all.h"
#include "tpcc_com_all_i.c"
#include "Methods.h"
#include "..\..\tpcc_com_ps\src\tpcc_com_ps_i.c"
#include "..\..\common\src\ReadRegistry.cpp"

CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)
        OBJECT_ENTRY(CLSID_TPCC, CTPCC)
        OBJECT_ENTRY(CLSID_NewOrder, CNewOrder)
        OBJECT_ENTRY(CLSID_OrderStatus,
COrderStatus)
        OBJECT_ENTRY(CLSID_Payment, CPayment)
        OBJECT_ENTRY(CLSID_StockLevel, CStockLevel)
END_OBJECT_MAP()

// configuration settings from registry
TPCCREGISTRYDATA Reg;
char
        szMyComputerName(MAX_COMPUTERNAME_LENGTH+1)
;

static HINSTANCE hLibInstanceDb = NULL;

TYPE_CTPCC_DBLIB *pCTPCC_DBLIB_new;
TYPE_CTPCC_ODBC *pCTPCC_ODBC_new;

////////////////////////////////////
// DLL Entry Point

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInstance, DWORD
dwReason, LPVOID /*lpReserved*/)
{
        char szDllName[128];

        try
        {
                if (dwReason ==
DLL_PROCESS_ATTACH)
                {
                        _Module.Init(ObjectMap,
hInstance);

                        DisableThreadLibraryCalls(hInstance);

```



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        DWORD dwSize =
MAX_COMPUTERNAME_LENGTH+1;
        GetComputerName(szMyComputerName, &dwSize);
        szMyComputerName[dwSize] = 0;

        if (
ReadTPCCRegistrySettings( &Reg ) )
            throw new
CCOMPONENT_ERR( ERR_MISSING_REGISTRY_ENTRIES );
        if (Reg.eDB_Protocol ==
DBLIB)
        {
            strcpy(
szDllName, Reg.szPath );
            strcat(
szDllName, "tpcc_dblib.dll");

            hLibInstanceDb = LoadLibrary( szDllName );
            if
(hLibInstanceDb == NULL)
                throw new CCOMPONENT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );

            // get
function pointer to wrapper for class constructor
            pCTPCC_DBLIB_new = (TYPE_CTPCC_DBLIB*)
GetProcAddress(hLibInstanceDb, "CTPCC_DBLIB_new");
            if
(pCTPCC_DBLIB_new == NULL)
                throw new CCOMPONENT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );
            else if
(Reg.eDB_Protocol == ODBC)
            {
                strcpy(
szDllName, Reg.szPath );
                strcat(
szDllName, "tpcc_odbc.dll");

                hLibInstanceDb = LoadLibrary( szDllName );
                if
(hLibInstanceDb == NULL)
                    throw new CCOMPONENT_ERR(
ERR_LOADDLL_FAILED, szDllName, GetLastError() );

                // get
function pointer to wrapper for class constructor
                pCTPCC_ODBC_new = (TYPE_CTPCC_ODBC*)
GetProcAddress(hLibInstanceDb, "CTPCC_ODBC_new");
                if
(pCTPCC_ODBC_new == NULL)
                    throw new CCOMPONENT_ERR(
ERR_GETPROCADDR_FAILED, szDllName, GetLastError() );

```

```

        }
        else
            throw new
CCOMPONENT_ERR( ERR_UNKNOWN_DB_PROTOCOL );
        }
        else if (dwReason ==
DLL_PROCESS_DETACH)
            _Module.Term();
    }
    catch (CBaseErr *e)
    {
        WriteMessageToEventLog(e-
>ErrorText());
        delete e;
        return FALSE;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception in object DllMain"));
        return FALSE;
    }
    return TRUE;    // OK
}

////////////////////////////////////
// Used to determine whether the DLL can be unloaded
by OLE
STDAPI DllCanUnloadNow(void)
{
    return (_Module.GetLockCount()==0) ? S_OK :
S_FALSE;
}

////////////////////////////////////
// Returns a class factory to create an object of the
requested type
STDAPI DllGetClassObject(REFCLSID rclsid, REFIID
riid, LPVOID* ppv)
{
    return _Module.GetClassObject(rclsid, riid,
ppv);
}

////////////////////////////////////
// DllRegisterServer - Adds entries to the system
registry
STDAPI DllRegisterServer(void)
{
    // registers object, typelib and all
interfaces in typelib
    return _Module.RegisterServer(TRUE);
}

```

```

////////////////////////////////////
// DllUnregisterServer - Removes entries from the
system registry
STDAPI DllUnregisterServer(void)
{
    _Module.UnregisterServer();
    return S_OK;
}

static void WriteMessageToEventLog(LPTSTR lpszMsg)
{
    TCHAR szMsg[256];
    HANDLE hEventSource;
    LPTSTR lpszStrings[2];

    // Use event logging to log the error.
    //
    hEventSource = RegisterEventSource(NULL,
TEXT("tpcc_com_all.dll"));

    _sprintf(szMsg, TEXT("Error in COM+ TPC-C
Component: "));
    lpszStrings[0] = szMsg;
    lpszStrings[1] = lpszMsg;

    if (hEventSource != NULL)
    {
        ReportEvent(hEventSource, // handle of event
source
            EVENTLOG_ERROR_TYPE, // event type
            0, // event category
            0, // event ID
            NULL, // current user's
SID
            2, // strings in
lpszStrings
            0, // no bytes of raw
data
            (LPCTSTR *)lpszStrings, // array of
error strings
            NULL); // no raw data
        (VOID) DeregisterEventSource(hEventSource);
    }
}

inline void ReleaseInterface(IUnknown *pUnk)
{
    if (pUnk)
    {
        pUnk->Release();
        pUnk = NULL;
    }
}

/* FUNCTION: CCOMPONENT_ERR::ErrorText
*
*/
char* CCOMPONENT_ERR::ErrorText(void)

```

```

{
    static SERRORMSG errorMsgs[] =
    {
        { ERR_MISSING_REGISTRY_ENTRIES,
        "Required entries missing from registry." },
        { ERR_LOADDLL_FAILED,
        "Load of DLL failed. DLL=" },
        { ERR_GETPROCADDR_FAILED,
        "Could not map proc in DLL. GetProcAddress. DLL=" },
        { ERR_UNKNOWN_DB_PROTOCOL,
        "Unknown database protocol specified in registry." },
        { 0, "" }
    };

    char szTmp[256];
    int i = 0;
    while (TRUE)
    {
        if (errorMsgs[i].szMsg[0] == 0)
            break;
        strcpy( szTmp, "Unknown
error number. ");
        if (m_Error ==
errorMsgs[i].iError)
            strcpy( szTmp,
errorMsgs[i].szMsg );
        i++;
    }

    if (m_szTextDetail)
        strcat( szTmp, m_szTextDetail );
    if (m_SystemErr)
        sprintf( szTmp+strlen(szTmp), "
Error=%d", m_SystemErr );

    m_szErrorText = new char[strlen(szTmp)+1];
    strcpy( m_szErrorText, szTmp );
    return m_szErrorText;
}

CTPCC_Common::CTPCC_Common()
{
    m_pTxn = NULL;
    m_bCanBePooled = TRUE;
}

CTPCC_Common::~CTPCC_Common()
{

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    if (m_pTxn)
        delete m_pTxn;
}

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

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

//
// called by the ctor activator
//
STDMETHODIMP CTPCC_Common::Construct(IDispatch *
pUnk)
{
    // Code to access construction string, if
needed later...
    // if (!pUnk)
    // return E_UNEXPECTED;
    // IObjectConstructString * pString
= NULL;
    // HRESULT hr = pUnk-
>QueryInterface(IID_IObjectConstructString, (void
**)&pString);
    // pString->Release();

    try
    {
        if (Reg.eDB_Protocol == ODBC)
            m_pTxn =
pCTPCC_ODBC_new( Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword, szMyComputerName, Reg.szDbName );
        else if (Reg.eDB_Protocol ==
DBLIB)
            m_pTxn =
pCTPCC_DBLIB_new( Reg.szDbServer, Reg.szDbUser,
Reg.szDbPassword, szMyComputerName, Reg.szDbName );
    }
    catch (CBaseErr *e)
    {
        WriteMessageToEventLog(e-
>ErrorText());
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception in object ::Construct"));
        return E_FAIL;
    }

    return S_OK;
}

```

```

HRESULT CTPCC_Common::NewOrder(VARIANT txn_in,
VARIANT* txn_out)
{
    PNEW_ORDER_DATA pNewOrder;
    COM_DATA *pData;
    try
    {
        pData = (COM_DATA*)txn_in.parray-
>pvData;
        pNewOrder = m_pTxn-
>BuffAddr_NewOrder();
        memcpy(pNewOrder, &pData-
>u.NewOrder, sizeof(NEW_ORDER_DATA));

        m_pTxn->NewOrder(); //
do the actual txn

        VariantInit(txn_out);
        txn_out->vt = VT_SAFEARRAY;
        txn_out->parray =
SafeArrayCreateVector(VT_UI1,
txn_in.parray->rgsabound-
>cElements,
txn_in.parray->rgsabound-
>cElements);
        pData = (COM_DATA*) txn_out-
>parray->pvData;
        memcpy( &pData->u.NewOrder,
pNewOrder, sizeof(NEW_ORDER_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database
connection; if yes, component is toast
        if ( (e->ErrorType() ==
ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005) ||
((e->ErrorType() ==
ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) )
            m_bCanBePooled = FALSE;

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}

```

```

}
HRESULT CTPCC_Common::Payment(VARIANT txn_in,
VARIANT* txn_out)
{
    PPAYMENT_DATA    pPayment;
    COM_DATA          *pData;
    try
    {
        pData = (COM_DATA*)txn_in.parray-
>pvData;
        pPayment = m_pTxn-
>BuffAddr_Payment();

        memcpy(pPayment, &pData-
>u.Payment, sizeof(PAYMENT_DATA));

        m_pTxn->Payment();           //
do the actual txn

        VariantInit(txn_out);
        txn_out->vt = VT_SAFEARRAY;
        txn_out->parray =
SafeArrayCreateVector( VT_UI1,
>cElements,
        txn_in.parray->rgsabound-
>cElements);
        pData = (COM_DATA*) txn_out-
>parray->pvData;

        memcpy( &pData->u.Payment,
pPayment, sizeof(PAYMENT_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database
        connection; if yes, component is toast
        if ( ((e->ErrorType() ==
ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ||
((e->ErrorType() ==
ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) )
            m_bCanBePooled = FALSE;

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        m_bCanBePooled = FALSE;
    }
}

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```

        return E_FAIL;
    }
}
HRESULT CTPCC_Common::StockLevel(VARIANT txn_in,
VARIANT* txn_out)
{
    PSTOCK_LEVEL_DATA pStockLevel;
    COM_DATA          *pData;
    try
    {
        pData = (COM_DATA*)txn_in.parray-
>pvData;
        pStockLevel = m_pTxn-
>BuffAddr_StockLevel();

        memcpy(pStockLevel, &pData-
>u.StockLevel, sizeof(STOCK_LEVEL_DATA));

        m_pTxn->StockLevel();

        VariantInit(txn_out);
        txn_out->vt = VT_SAFEARRAY;
        txn_out->parray =
SafeArrayCreateVector( VT_UI1,
>cElements,
        txn_in.parray->rgsabound-
>cElements);
        pData = (COM_DATA*)txn_out-
>parray->pvData;

        memcpy( &pData->u.StockLevel,
pStockLevel, sizeof(STOCK_LEVEL_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database
        connection; if yes, component is toast
        if ( ((e->ErrorType() ==
ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ||
((e->ErrorType() ==
ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) )
            m_bCanBePooled = FALSE;

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
        pData->retval = ERR_TYPE_LOGIC;
    }
}

```

```

        pData->error = 0;
        m_bCanBePooled = FALSE;
        return E_FAIL;
    }
}
HRESULT CTPCC_Common::OrderStatus(VARIANT txn_in,
VARIANT* txn_out)
{
    PORDER_STATUS_DATA pOrderStatus;
    COM_DATA          *pData;
    try
    {
        pData = (COM_DATA*)txn_in.parray-
>pvData;
        pOrderStatus = m_pTxn-
>BuffAddr_OrderStatus();

        memcpy(pOrderStatus, &pData-
>u.OrderStatus, sizeof(ORDER_STATUS_DATA));

        m_pTxn->OrderStatus();

        VariantInit(txn_out);
        txn_out->vt = VT_SAFEARRAY;
        txn_out->parray =
SafeArrayCreateVector( VT_UI1,
>cElements,
        txn_in.parray->rgsabound-
>cElements);
        pData = (COM_DATA*)txn_out-
>parray->pvData;

        memcpy( &pData->u.OrderStatus,
pOrderStatus, sizeof(ORDER_STATUS_DATA));

        pData->retval = ERR_SUCCESS;
        pData->error = 0;
        return S_OK;
    }
    catch (CBaseErr *e)
    {
        // check for lost database
        connection; if yes, component is toast
        if ( ((e->ErrorType() ==
ERR_TYPE_DBLIB) && (e->ErrorNum() == 10005)) ||
((e->ErrorType() ==
ERR_TYPE_ODBC) && (e->ErrorNum() == 10054)) )
            m_bCanBePooled = FALSE;

        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        delete e;
        return E_FAIL;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
    }
}

```

```

pData->retval = ERR_TYPE_LOGIC;
pData->error = 0;
m_bCanBePooled = FALSE;
return E_FAIL;
}
}

```

tpcc_com_all.def

```
; tpcc_com_all.def : Declares the module parameters.
```

```

LIBRARY      "tpcc_com_all.dll"

EXPORTS
    DllCanUnloadNow      @1 PRIVATE
    DllGetClassObject    @2 PRIVATE
    DllRegisterServer    @3 PRIVATE
    DllUnregisterServer  @4 PRIVATE

```

tpcc_com_all.dsp

```

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

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

CFG=tpcc_com_all - 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 "tpcc_com_all.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 "tpcc_com_all.mak"
CFG="tpcc_com_all - Win32 Debug"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "tpcc_com_all - Win32 Release" (based on
"Win32 (x86) Dynamic-Link Library")
!MESSAGE "tpcc_com_all - 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)" == "tpcc_com_all - 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 /MT /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
odbccp32.lib /nologo /subsystem:windows /dll /debug
/machine:I386
# ADD LINK32 ..\db_dblib_dll\bin\tpcc_dblib.lib
..\db_odbc_dll\bin\tpcc_odbc.lib kernel32.lib
user32.lib gdi32.lib winspool.lib comdlg32.lib
advapi32.lib shell32.lib ole32.lib oleaut32.lib
uuid.lib odbc32.lib odbccp32.lib /nologo
/subsystem:windows /dll /machine:I386

!ELSEIF "$(CFG)" == "tpcc_com_all - 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 /MTd /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
odbccp32.lib /nologo /subsystem:windows /dll /debug
/machine:I386 /pdctype:sept
# ADD LINK32 ..\db_dblib_dll\bin\tpcc_dblib.lib
..\db_odbc_dll\bin\tpcc_odbc.lib kernel32.lib
user32.lib gdi32.lib winspool.lib comdlg32.lib
advapi32.lib shell32.lib ole32.lib oleaut32.lib
uuid.lib odbc32.lib odbccp32.lib /nologo
/subsystem:windows /dll /debug /machine:I386
/pdctype:sept

!ENDIF

# Begin Target

# Name "tpcc_com_all - Win32 Release"
# Name "tpcc_com_all - Win32 Debug"
# Begin Group "Source"

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

SOURCE=.\src\tpcc_com_all.cpp
# SUBTRACT CPP /YX
# End Source File
# Begin Source File

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

SOURCE=.\src\tpcc_com_all.idl

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

# PROP Ignore_Default_Tool 1
# Begin Custom Build - Performing MIDL step
InputPath=.\src\tpcc_com_all.idl

BuildCmds= \
midl /Oicf /h "tpcc_com_all.h" /iid
"tpcc_com_all_i.c" ".\src\tpcc_com_all.idl"
/out ".\src"

".\src\tpcc_com_all.tlb" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
$(BuildCmds)

".\src\tpcc_com_all.h" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
$(BuildCmds)

".\src\tpcc_com_all_i.c" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
$(BuildCmds)

# End Custom Build

```

```

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

# PROP Ignore_Default_Tool 1
# Begin Custom Build - Performing MIDL step
InputPath=.\src\tpcc_com_all.idl

BuildCmds= \
    midl /Oicf /h "tpcc_com_all.h" /iid
"tpcc_com_all_i.c"      ".\src\tpcc_com_all.idl"
/out ".\src"

".\src\tpcc_com_all.tlb" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
    $(BuildCmds)

".\src\tpcc_com_all.h" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
    $(BuildCmds)

".\src\tpcc_com_all_i.c" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
    $(BuildCmds)
# End Custom Build

!ENDIF

# End Source File
# End Group
# Begin Group "Header"

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

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

SOURCE=.\src\resource.h
# End Source File
# End Group
# Begin Source File

SOURCE=.\src\tpcc_com_all.rc
# End Source File
# End Target
# End Project

```

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_HEADERING( )

/* verify that the <rpcndr.h> version is high enough
to compile this file*/
#ifndef __REQUIRED_RPCNDR_H_VERSION__
#define __REQUIRED_RPCNDR_H_VERSION__ 440
#endif

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

#ifndef __tpcc_com_all_h__
#define __tpcc_com_all_h__

/* Forward Declarations */

#ifndef __TPCC_FWD_DEFINED__
#define __TPCC_FWD_DEFINED__

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

#endif /* __TPCC_FWD_DEFINED__ */

#ifndef __NewOrder_FWD_DEFINED__
#define __NewOrder_FWD_DEFINED__

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

#endif /* __NewOrder_FWD_DEFINED__ */

#ifndef __OrderStatus_FWD_DEFINED__
#define __OrderStatus_FWD_DEFINED__

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

#endif /* __OrderStatus_FWD_DEFINED__ */

```

```

#ifndef __Payment_FWD_DEFINED__
#define __Payment_FWD_DEFINED__

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

#endif /* __Payment_FWD_DEFINED__ */

#ifndef __StockLevel_FWD_DEFINED__
#define __StockLevel_FWD_DEFINED__

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

#endif /* __StockLevel_FWD_DEFINED__ */

/* header files for imported files */
#include "oaidl.h"
#include "ocidl.h"
#include "tpcc_com_ps.h"

#ifdef __cplusplus
extern "C"{
#endif

void __RPC_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;

#ifndef __TPCCLib_LIBRARY_DEFINED__
#define __TPCCLib_LIBRARY_DEFINED__

/* library TPCCLib */
/* [helpstring] [version] [uuid] */

EXTERN_C const IID LIBID_TPCCLib;

```

```

EXTERN_C const CLSID CLSID_TPCC;

#ifdef __cplusplus
class DECLSPEC_UUID("122A3128-2520-11D3-BA71-00C04FBFE08B")
TPCC;
#endif

EXTERN_C const CLSID CLSID_NewOrder;

#ifdef __cplusplus
class DECLSPEC_UUID("975BAABF-84A7-11D2-BA47-00C04FBFE08B")
NewOrder;
#endif

EXTERN_C const CLSID CLSID_OrderStatus;

#ifdef __cplusplus
class DECLSPEC_UUID("266836AD-A50D-11D2-BA4E-00C04FBFE08B")
OrderStatus;
#endif

EXTERN_C const CLSID CLSID_Payment;

#ifdef __cplusplus
class DECLSPEC_UUID("CD02F7EF-A4FA-11D2-BA4E-00C04FBFE08B")
Payment;
#endif

EXTERN_C const CLSID CLSID_StockLevel;

#ifdef __cplusplus
class DECLSPEC_UUID("2668369E-A50D-11D2-BA4E-00C04FBFE08B")
StockLevel;
#endif
#endif /* __TPCClib_LIBRARY_DEFINED__ */

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

#ifdef __cplusplus
}
#endif

#endif

```

tpcc_com_all.idl

```

/* FILE: TPCC.IDL Microsoft
 * TPC-C Kit Ver. 4.20.000 Copyright
 * Microsoft, 1999 All Rights Reserved
 * not yet audited
 * PURPOSE: IDL source for TPCC.dll. This
file is processed by the MIDL tool to
 * produce the
type library (TPCC.tlb) and marshalling code.
 *
 * Change history:
 * 4.20.000 - first version
 */

interface TPCC;
interface NewOrder;
interface OrderStatus;
interface Payment;
interface StockLevel;

import "oaidl.idl";
import "ocidl.idl";
import "..\tpcc_com_ps\src\tpcc_com_ps.idl";

[
    uuid(122A3117-2520-11D3-BA71-00C04FBFE08B),
    version(1.0),
    helpstring("TPC-C 1.0 Type Library")
]
library TPCClib
{
    importlib("stdole32.tlb");
    importlib("stdole2.tlb");

    [
        uuid(122A3128-2520-11D3-BA71-00C04FBFE08B),
        helpstring("All Txns Class")
    ]
    coclass TPCC
    {
        [default] interface ITPCC;
    };

    [
        uuid(975BAABF-84A7-11D2-BA47-00C04FBFE08B),
        helpstring("NewOrder Class")
    ]
    coclass NewOrder
    {
        [default] interface ITPCC;
    };
}

```

```

};

[
    uuid(266836AD-A50D-11D2-BA4E-00C04FBFE08B),
    helpstring("OrderStatus Class")
]
coclass OrderStatus
{
    [default] interface ITPCC;
};

[
    uuid(CD02F7EF-A4FA-11D2-BA4E-00C04FBFE08B),
    helpstring("Payment Class")
]
coclass Payment
{
    [default] interface ITPCC;
};

[
    uuid(2668369E-A50D-11D2-BA4E-00C04FBFE08B),
    helpstring("StockLevel Class")
]
coclass StockLevel
{
    [default] interface ITPCC;
};
};

```

tpcc_com_all.rc

```

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

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

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

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

```

```

#if !defined(APX_RESOURCE_DLL) ||
defined(APX_TARG_ENU)
#ifdef WIN32
LANGUAGE LANG_ENGLISH, SUBLANG_ENGLISH_US
#pragma code_page(1252)
#endif // WIN32

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

1 TEXTINCLUDE DISCARDABLE
BEGIN
    "resource.h\0"
END

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

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

#endif // APSTUDIO_INVOKED

#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
#endif // !_MAC

////////////////////////////////////
////////////////////////////////////
//
// REGISTRY
//

IDR_TPCC                REGISTRY DISCARDABLE
"tpcc_com_all.rgs"
IDR_NEWORDER            REGISTRY DISCARDABLE
"tpcc_com_no.rgs"
IDR_ORDERSTATUS         REGISTRY DISCARDABLE
"tpcc_com_os.rgs"
IDR_PAYMENT              REGISTRY DISCARDABLE
"tpcc_com_pay.rgs"
IDR_STOCKLEVEL          REGISTRY DISCARDABLE
"tpcc_com_sl.rgs"

////////////////////////////////////
////////////////////////////////////
//
// String Table
//

STRINGTABLE DISCARDABLE
BEGIN
    IDS_PROJNAME          "tpcc_com_all"
END

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

#ifdef APSTUDIO_INVOKED
////////////////////////////////////
////////////////////////////////////
//
// Generated from the TEXTINCLUDE 3 resource.
//
1 TYPELIB "tpcc_com_all.tlb"

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

```

```

#endif // not APSTUDIO_INVOKED



---


tpcc_com_all.rgs


---


HKCR
{
    TPCC.AllTxns.1 = s 'All Txns Class'
    {
        CLSID = s '{122A3128-2520-11D3-
BA71-00C04FBFE08B}'
    }
    TPCC.AllTxns = s 'TPCC Class'
    {
        CurVer = s 'TPCC.AllTxns.1'
    }
    NoRemove CLSID
    {
        ForceRemove {122A3128-2520-11D3-
BA71-00C04FBFE08B} = s 'TPCC Class'
        {
            ProgID = s
'TPCC.AllTxns.1'
            VersionIndependentProgID = s 'TPCC.AllTxns'
            InprocServer32 = s
'%MODULE%'
        }
        ThreadingModel = s 'Both'
    }
}



---


tpcc_com_all_i.c


---


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

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

/* link this file in with the server and any clients
*/

/* File created by MIDL compiler version 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_HEADERING( )

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

#ifdef __cplusplus
extern "C"{
#endif

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

#ifdef _MIDL_USE_GUIDDEF_

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

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

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

#else // !_MIDL_USE_GUIDDEF_

#ifdef __IID_DEFINED__
#define __IID_DEFINED__

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

#endif // __IID_DEFINED__

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

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

#endif !_MIDL_USE_GUIDDEF_

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

```

```

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

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

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

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

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

#undef MIDL_DEFINE_GUID

#ifdef __cplusplus
}
#endif

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

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

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

/* link this file in with the server and any clients
*/

/* File created by MIDL compiler version 5.03.0280
*/
/* at Thu Dec 13 23:13:14 2001
*/
/* Compiler settings for .\src\tpcc_com_all.idl:
Oicf (OptLev=i2), 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)

#ifdef __cplusplus
extern "C"{
#endif

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

#ifdef _MIDL_USE_GUIDDEF_

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

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

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

#else // !_MIDL_USE_GUIDDEF_

#ifdef __IID_DEFINED__
#define __IID_DEFINED__

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

#endif // __IID_DEFINED__

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

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

#endif !_MIDL_USE_GUIDDEF_

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

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

```



```

!MESSAGE "tpcc_com_ps - Win32 Debug" (based on "Win32
(x86) Application")
!MESSAGE

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

!IF "$(CFG)" == "tpcc_com_ps - 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 /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /W3 /GX /O2 /D "WIN32" /D "NDEBUG"
/D _WIN32_WINNT=0x0400 /D "REGISTER_PROXY_DLL" /FD /c
# SUBTRACT CPP /YX
# 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 odbcc32.lib
odbc32.lib /nologo /subsystem:windows /machine:I386
# ADD LINK32 kernel32.lib rpcndr.lib rpcns4.lib
rpctr4.lib oleaut32.lib uuid.lib /nologo
/entry:"DllMain" /subsystem:windows /dll /pdb:none
/machine:I386 /def:".src\tpcc_com_ps.def"
# Begin Custom Build - Copying tpcc_com_ps.h
InputPath=.bin\tpcc_com_ps.dll
SOURCE=$(InputPath)

"..\tpcc_com_all\src\tpcc_com_ps.h" : $(SOURCE)
"$(INTDIR)" "$(OUTDIR)"
copy .\src\tpcc_com_ps.h
..\tpcc_com_all\src\

# End Custom Build

!ELSEIF "$(CFG)" == "tpcc_com_ps - 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 /W3 /Gm /GX /Zi /Od /D "WIN32"
/D "_DEBUG" /D "_WINDOWS" /YX /FD /c
# ADD CPP /nologo /ZI /Od /D "WIN32" /D "_DEBUG" /D
_WIN32_WINNT=0x0400 /D "REGISTER_PROXY_DLL" /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 odbcc32.lib
odbc32.lib /nologo /subsystem:windows /debug
/machine:I386 /pdbtype:sept
# ADD LINK32 kernel32.lib rpcndr.lib rpcns4.lib
rpctr4.lib oleaut32.lib uuid.lib /nologo
/entry:"DllMain" /dll /debug /machine:IX86
/def:".src\tpcc_com_ps.def" /pdbtype:sept
# SUBTRACT LINK32 /pdb:none
# Begin Custom Build - Copying tpcc_com_ps.h
InputPath=.bin\tpcc_com_ps.dll
SOURCE=$(InputPath)

"..\tpcc_com_all\src\tpcc_com_ps.h" : $(SOURCE)
"$(INTDIR)" "$(OUTDIR)"
copy .\src\tpcc_com_ps.h
..\tpcc_com_all\src\

# End Custom Build

!ENDIF

# Begin Target

# Name "tpcc_com_ps - Win32 Release"
# Name "tpcc_com_ps - Win32 Debug"
# Begin Group "Source"

# PROP Default_Filter ""
# Begin Source File

SOURCE=.src\dlldata.c
# End Source File
# Begin Source File

SOURCE=.src\tpcc_com_ps.def
# PROP Exclude_From_Build 1
# End Source File
# Begin Source File

```

```

SOURCE=.src\tpcc_com_ps.idl

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

# PROP Ignore_Default_Tool 1
# Begin Custom Build
InputPath=.src\tpcc_com_ps.idl

BuildCmds= \
midl /Oicf /h "tpcc_com_ps.h" /iid
"tpcc_com_ps_i.c" ".src\tpcc_com_ps.idl" /out
".src"

".src\tpcc_com_ps.h" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
$(BuildCmds)

".src\tpcc_com_ps_i.c" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
$(BuildCmds)

".src\dlldata.c" : $(SOURCE) "$(INTDIR)" "$(OUTDIR)"
$(BuildCmds)

".src\tpcc_com_ps_p.c" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
$(BuildCmds)
# End Custom Build

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

# PROP Ignore_Default_Tool 1
# Begin Custom Build
InputPath=.src\tpcc_com_ps.idl

BuildCmds= \
midl /Oicf /h "tpcc_com_ps.h" /iid
"tpcc_com_ps_i.c" ".src\tpcc_com_ps.idl" /out
".src"

".src\tpcc_com_ps.h" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
$(BuildCmds)

".src\tpcc_com_ps_i.c" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
$(BuildCmds)

".src\dlldata.c" : $(SOURCE) "$(INTDIR)" "$(OUTDIR)"
$(BuildCmds)

".src\tpcc_com_ps_p.c" : $(SOURCE) "$(INTDIR)"
"$(OUTDIR)"
$(BuildCmds)
# End Custom Build

!ENDIF

# End Source File
# Begin Source File

SOURCE=.src\tpcc_com_ps_i.c

```

```

# End Source File
# Begin Source File

SOURCE=.\src\tpcc_com_ps_p.c
# End Source File
# End Group
# End Target
# End Project

```

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_HEADERING( )

```

```

/* verify that the <rpcndr.h> version is high enough
to compile this file*/
#ifndef __REQUIRED_RPCNDR_H_VERSION__
#define __REQUIRED_RPCNDR_H_VERSION__ 440
#endif

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

#ifndef __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-
00C04FBE08B")
ITPCC : public IUnknown
{
public:
virtual HRESULT STDMETHODCALLTYPE NewOrder(
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out) =
0;

virtual HRESULT STDMETHODCALLTYPE Payment(
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out) =
0;

virtual HRESULT STDMETHODCALLTYPE Delivery(
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out) =
0;

virtual HRESULT STDMETHODCALLTYPE StockLevel(
/* [in] */ VARIANT txn_in,

```

```

/* [out] */ VARIANT __RPC_FAR *txn_out) =
0;

virtual HRESULT STDMETHODCALLTYPE OrderStatus(
/* [in] */ VARIANT txn_in,
/* [out] */ VARIANT __RPC_FAR *txn_out) =
0;

virtual HRESULT STDMETHODCALLTYPE 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
*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) \
    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 STDMETHODCALLTYPE 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_USER
VARIANT_UserMarshal(    unsigned long __RPC_FAR *,
    unsigned char __RPC_FAR *, VARIANT __RPC_FAR * );
unsigned char             __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.idl

```

/* FILE: ITPCC.IDL
 * Microsoft
 * TPC-C Kit Ver. 4.20.000
 * Copyright
 * Microsoft, 1999
 * All Rights Reserved
 * not yet
 * audited
 *
 * PURPOSE: Defines the interface used by
 * TPCC. This interface can be implemented by C++
 * components.
 *
 * Change history:
 * 4.20.000 - first version
 */

// Forward declare all types defined
interface ITPCC;
import "oidl.idl";
import "ocidl.idl";

[
    object,
    oleautomation,
    uuid(FEEE6AA2-84B1-11d2-BA47-
00C04FBFE08B),

```

```

        helpstring("ITPCC Interface"),
        pointer_default(unique)
    ]
    interface ITPCC : IUnknown
    {
HRESULT _stdcall NewOrder
    (
        [in] VARIANT txn_in,
        [out] VARIANT *txn_out
    );
HRESULT _stdcall Payment
    (
        [in] VARIANT txn_in,
        [out] VARIANT *txn_out
    );
HRESULT _stdcall Delivery
    (
        [in] VARIANT txn_in,
        [out] VARIANT *txn_out
    );
HRESULT _stdcall StockLevel
    (
        [in] VARIANT txn_in,
        [out] VARIANT *txn_out
    );
HRESULT _stdcall OrderStatus
    (
        [in] VARIANT txn_in,
        [out] VARIANT *txn_out
    );
HRESULT _stdcall CallSetComplete
    (
    );
    }; // interface ITPCC

```

tpcc_com_ps_i.c

```

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

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

/* link this file in with the server and any clients
*/

/* File created by MIDL compiler version 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win32 (32b run),
ms_ext, c_ext
error checks: allocation ref bounds_check enum
stub_data
VC __declspec() decoration level:
__declspec(uuid()), __declspec(selectany),
__declspec(novtable)
DECLSPEC_UUID(), MIDL_INTERFACE()
*/
/**/@MIDL_FILE_HEADER( )

#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}}

#ifdef !_MIDL_USE_GUIDDEF_

MIDL_DEFINE_GUID(IID,
IID_ITPCC,0xFEEEE6AA2,0x84B1,0x11d2,0xBA,0x47,0x00,0x0
0,0x4F,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 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run,appending), ms_ext, c_ext, robust
error checks: allocation ref bounds_check enum
stub_data
VC __declspec() decoration level:
__declspec(uuid()), __declspec(selectany),
__declspec(novtable)

```

```

DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADING( )
#if defined(_M_IA64) || defined(_M_AXP64)

#ifdef __cplusplus
extern "C"{
#endif

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

#ifdef _MIDL_USE_GUIDDEF_

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

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

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

#else // !_MIDL_USE_GUIDDEF_

#ifndef __IID_DEFINED__
#define __IID_DEFINED__

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

#endif // __IID_DEFINED__

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

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

#endif !_MIDL_USE_GUIDDEF_

MIDL_DEFINE_GUID(IID,
IID_ITPCC,0xFEEE6AA2,0x84B1,0x11d2,0xBA,0x47,0x00,0xC
0,0x4F,0xBF,0xE0,0x8B);

#undef MIDL_DEFINE_GUID

```

```

#ifdef __cplusplus
}
#endif

#endif /* defined(_M_IA64) || defined(_M_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*/
#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={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
};

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_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 */
        #ifndef _ALPHA_
        #ifndef _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, */
#ifndef _ALPHA_
#ifndef _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 */
#ifndef _ALPHA_
#ifndef _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( 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
#endif
#endif

```

```

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
#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 */
#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 */
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 */
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( 0xffff ), /* -4 */
/* 296 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 298 */
0x17, /*
FC_CSTRUCT */
0x3, /*
3 */
/* 300 */ NdrFcShort( 0x8 ), /* 8 */
/* 302 */ NdrFcShort( 0xfffff2 ), /* 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 */
FC_IP */
0x2f, /*
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 */
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( 0xffffffffe0 ), /* Offset= -
32 (470) */
/* 504 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 506 */ NdrFcShort( 0x0 ), /* 0 */
/* 508 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 510 */ NdrFcShort( 0x0 ), /* 0 */
/* 512 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/

```

```

0x0, /*
0 */
/* 518 */ NdrFcShort( 0xffffffff40 ), /* Offset= -
192 (326) */
/* 520 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 522 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 524 */ NdrFcShort( 0x8 ), /* 8 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
0x36, /*
FC_POINTER */
/* 532 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 534 */
0x11, 0x0, /*
FC_RP */
/* 536 */ NdrFcShort( 0xffffffffe0 ), /* Offset= -
32 (504) */
/* 538 */
0x1b, /*
FC_CARRAY */
0x3, /*
3 */
/* 540 */ NdrFcShort( 0x4 ), /* 4 */
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 544 */ NdrFcShort( 0x0 ), /* 0 */
/* 546 */
0x4b, /*
FC_PP */
0x5c, /*
FC_PAD */
/* 548 */
0x48, /*
FC_VARIABLE_REPEAT */
0x49, /*
FC_FIXED_OFFSET */
/* 550 */ NdrFcShort( 0x4 ), /* 4 */
/* 552 */ NdrFcShort( 0x0 ), /* 0 */
/* 554 */ NdrFcShort( 0x1 ), /* 1 */
/* 556 */ NdrFcShort( 0x0 ), /* 0 */
/* 558 */ NdrFcShort( 0x0 ), /* 0 */
/* 560 */ 0x12, 0x0, /* FC_UP */
/* 562 */ NdrFcShort( 0x182 ), /* Offset=
386 (948) */
/* 564 */
0x5b, /*
FC_END */
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_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 */
FC_PP */
0x4b, /*
FC_PAD */
0x5c, /*
/* 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 */
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( 0xfffffe8 ), /* 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( 0xfffffe8 ), /* Offset= -
24 (806) */
/* 832 */
0x5b, /*
FC_END */
0x8, /*
FC_LONG */
/* 834 */ 0x8, /* FC_LONG */
0x5b, /*
FC_END */
/* 836 */
0x15, /*
FC_STRUCT */
0x3, /*
3 */
/* 838 */ NdrFcShort( 0x8 ), /* 8 */
/* 840 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 842 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 844 */

```

```

                                0x1b,          /*
FC_CARRAY */
                                0x3,           /*
3 */
/* 846 */ NdrFcShort( 0x8 ), /* 8 */
/* 848 */ 0x7, /* Corr desc: FC_USHORT */
                                0x0,          /*
*/
/* 850 */ NdrFcShort( 0xffd8 ), /* -40 */
/* 852 */ 0x4c, /* FC_EMBEDDED_COMPLEX */
                                0x0,          /*
0 */
/* 854 */ NdrFcShort( 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( 0xffffef6 ), /* 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( 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( 0xffffc42 ), /* 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( 0xffffc32 ), /* Offset= -
974 (2) */
/* 978 */
                                0x11, 0x4,      /*
FC_RP [allocated_on_stack] */
/* 980 */ NdrFcShort( 0x6 ), /* Offset= 6 (986) */
/* 982 */
                                0x13, 0x0,      /*
FC_OP */
/* 984 */ NdrFcShort( 0xfffffddc ), /* Offset= -
36 (948) */
/* 986 */ 0xb4, /* FC_USER_MARSHAL */
                                0x83,          /*
131 */
/* 988 */ NdrFcShort( 0x0 ), /* 0 */
/* 990 */ NdrFcShort( 0x10 ), /* 16 */
/* 992 */ NdrFcShort( 0x0 ), /* 0 */

```

```

/* 994 */ NdrFcShort( 0xfffffff4 ), /* Offset= -
12 (982) */

                                0x0
    }
};

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

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

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

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

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

    return 0;
}

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

```

```

};

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

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

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

/* File created by MIDL compiler version 5.03.0280
*/
/* at Thu Dec 13 23:13:08 2001
*/
/* Compiler settings for .\src\tpcc_com_ps.idl:
Oicf (OptLev=i2), Wl, Zp8, env=Win64 (32b
run,appending), ms_ext, c_ext, robust
error checks: allocation ref bounds_check enum
stub_data
VC __declspec() decoration level:
__declspec(uuid()), __declspec(selectany),
__declspec(novtable)
DECLSPEC_UUID(), MIDL_INTERFACE()
*/
//@@MIDL_FILE_HEADER( )

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

/* verify that the <rpcproxy.h> version is high
enough to compile this file*/
#ifndef __REDQ_RPCPROXY_H_VERSION__
#define __REQUIRED_RPCPROXY_H_VERSION__ 475
#endif

#include "rpcproxy.h"
#ifndef __RPCPROXY_H_VERSION__
#error this stub requires an updated version of
<rpcproxy.h>
#endif // __RPCPROXY_H_VERSION__

#include "tpcc_com_ps.h"

#define TYPE_FORMAT_STRING_SIZE 979
#define PROC_FORMAT_STRING_SIZE 253
#define TRANSMIT_AS_TABLE_SIZE 0
#define WIRE_MARSHAL_TABLE_SIZE 1

typedef struct _MIDL_TYPE_FORMAT_STRING
{
    short Pad;
    unsigned char Format[ TYPE_FORMAT_STRING_SIZE ];
} MIDL_TYPE_FORMAT_STRING;

typedef struct _MIDL_PROC_FORMAT_STRING
{
    short Pad;

```

```

    unsigned char Format[ PROC_FORMAT_STRING_SIZE ];
} MIDL_PROC_FORMAT_STRING;

extern const MIDL_TYPE_FORMAT_STRING
__MIDL_TypeFormatString;
extern const MIDL_PROC_FORMAT_STRING
__MIDL_ProcFormatString;

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

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

/* Object interface: ITPCC, ver. 0.0,
GUID={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,
    0
};

static const MIDL_STUBLESS_PROXY_INFO ITPCC_ProxyInfo
=
{
    &Object_StubDesc,
    __MIDL_ProcFormatString.Format,

```



```

/* 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 */

```



```

/* 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 */
0x15, /*
FC_STRUCT */
0x7, /*
7 */
/* 282 */ NdrFcShort( 0x8 ), /* 8 */
/* 284 */ 0xb, /* FC_HYPER */
0x5b, /*
FC_END */
/* 286 */
0x12, 0x0, /*
FC_UP */
/* 288 */ NdrFcShort( 0xe ), /* Offset= 14 (302) */
/* 290 */
0x1b, /*
FC_CARRAY */
0x1, /*
1 */
/* 292 */ NdrFcShort( 0x2 ), /* 2 */
/* 294 */ 0x9, /* Corr desc: FC_ULONG */
/*
0x0, /*
*/
/* 296 */ NdrFcShort( 0xfffc ), /* -4 */
/* 298 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 300 */ 0x6, /* FC_SHORT */
0x5b, /*
FC_END */
/* 302 */
0x17, /*
FC_CSTRUCT */
0x3, /*
3 */
/* 304 */ NdrFcShort( 0x8 ), /* 8 */
/* 306 */ NdrFcShort( 0xffffffff0 ), /* Offset= -
16 (290) */
/* 308 */ 0x8, /* FC_LONG */
0x8, /*
FC_LONG */
/* 310 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 312 */
0x2f, /*
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 */
0x2f, /*
FC_IP */
0x5a, /*
FC_CONSTANT_IID */
/* 332 */ NdrFcLong( 0x20400 ), /* 132096 */
/* 336 */ NdrFcShort( 0x0 ), /* 0 */
/* 338 */ NdrFcShort( 0x0 ), /* 0 */
/* 340 */ 0xc0, /* 192 */
0x0, /*
0 */
/* 342 */ 0x0, /* 0 */
0x0, /*
0 */
/* 344 */ 0x0, /* 0 */
0x0, /*
0 */
/* 346 */ 0x0, /* 0 */
0x46, /*
70 */
/* 348 */
0x12, 0x10, /*
FC_UP [pointer_deref] */
/* 350 */ NdrFcShort( 0x2 ), /* Offset= 2 (352) */
/* 352 */
0x12, 0x0, /*
FC_UP */
/* 354 */ NdrFcShort( 0x1e6 ), /* Offset=
486 (840) */
/* 356 */
0x2a, /*
FC_ENCAPSULATED_UNION */
0x89, /*
137 */
/* 358 */ NdrFcShort( 0x20 ), /* 32 */
/* 360 */ NdrFcShort( 0xa ), /* 10 */
/* 362 */ NdrFcLong( 0x8 ), /* 8 */
/* 366 */ NdrFcShort( 0x50 ), /* Offset= 80 (446) */
/* 368 */ NdrFcLong( 0xd ), /* 13 */
/* 372 */ NdrFcShort( 0x70 ), /* Offset= 112 (484) */
/* 374 */ NdrFcLong( 0x9 ), /* 9 */
/* 378 */ NdrFcShort( 0x90 ), /* Offset= 144 (522) */
/* 380 */ NdrFcLong( 0xc ), /* 12 */
/* 384 */ NdrFcShort( 0xb0 ), /* Offset= 176 (560) */
/* 386 */ NdrFcLong( 0x24 ), /* 36 */
/* 390 */ NdrFcShort( 0x104 ), /* Offset=
260 (650) */
/* 392 */ NdrFcLong( 0x800d ), /* 32781 */
/* 396 */ NdrFcShort( 0x120 ), /* Offset=
288 (684) */
/* 398 */ NdrFcLong( 0x10 ), /* 16 */

```

```

/* 402 */ NdrFcShort( 0x13a ), /* Offset=
314 (716) */
/* 404 */ NdrFcLong( 0x2 ), /* 2 */
/* 408 */ NdrFcShort( 0x150 ), /* Offset=
336 (744) */
/* 410 */ NdrFcLong( 0x3 ), /* 3 */
/* 414 */ NdrFcShort( 0x166 ), /* Offset=
358 (772) */
/* 416 */ NdrFcLong( 0x14 ), /* 20 */
/* 420 */ NdrFcShort( 0x17c ), /* Offset=
380 (800) */
/* 422 */ NdrFcShort( 0xffffffff ), /* Offset= -1
(421) */
/* 424 */
FC_BOGUS_ARRAY */
0x21, /*
0x3, /*
3 */
/* 426 */ NdrFcShort( 0x0 ), /* 0 */
/* 428 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 430 */ NdrFcShort( 0x0 ), /* 0 */
/* 432 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 434 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 438 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 440 */
0x12, 0x0, /*
FC_UP */
/* 442 */ NdrFcShort( 0xffffffff74 ), /* Offset= -
140 (302) */
/* 444 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 446 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 448 */ NdrFcShort( 0x10 ), /* 16 */
/* 450 */ NdrFcShort( 0x0 ), /* 0 */
/* 452 */ NdrFcShort( 0x6 ), /* Offset= 6 (458) */
/* 454 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 456 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 458 */
0x11, 0x0, /*
FC_RP */
/* 460 */ NdrFcShort( 0xffffffffdc ), /* Offset= -
36 (424) */
/* 462 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 464 */ NdrFcShort( 0x0 ), /* 0 */
/* 466 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */

```

```

0x0, /*
*/
/* 468 */ NdrFcShort( 0x0 ), /* 0 */
/* 470 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 472 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 476 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 478 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 480 */ NdrFcShort( 0xffffffff58 ), /* Offset= -
168 (312) */
/* 482 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 484 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 486 */ NdrFcShort( 0x10 ), /* 16 */
/* 488 */ NdrFcShort( 0x0 ), /* 0 */
/* 490 */ NdrFcShort( 0x6 ), /* Offset= 6 (496) */
/* 492 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 494 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 496 */
0x11, 0x0, /*
FC_RP */
/* 498 */ NdrFcShort( 0xffffffffdc ), /* Offset= -
36 (462) */
/* 500 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 502 */ NdrFcShort( 0x0 ), /* 0 */
/* 504 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 506 */ NdrFcShort( 0x0 ), /* 0 */
/* 508 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 510 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 514 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 516 */ 0x4c, /* FC_EMBEDDED_COMPLEX
*/
0x0, /*
0 */
/* 518 */ NdrFcShort( 0xffffffff44 ), /* Offset= -
188 (330) */
/* 520 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 522 */
0x1a, /*
FC_BOGUS_STRUCT */

```

```

0x3, /*
3 */
/* 524 */ NdrFcShort( 0x10 ), /* 16 */
/* 526 */ NdrFcShort( 0x0 ), /* 0 */
/* 528 */ NdrFcShort( 0x6 ), /* Offset= 6 (534) */
/* 530 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 532 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 534 */
0x11, 0x0, /*
FC_RP */
/* 536 */ NdrFcShort( 0xffffffffdc ), /* Offset= -
36 (500) */
/* 538 */
0x21, /*
FC_BOGUS_ARRAY */
0x3, /*
3 */
/* 540 */ NdrFcShort( 0x0 ), /* 0 */
/* 542 */ 0x19, /* Corr desc: field
pointer, FC_ULONG */
0x0, /*
*/
/* 544 */ NdrFcShort( 0x0 ), /* 0 */
/* 546 */ NdrFcShort( 0x1 ), /* Corr flags: early,
*/
/* 548 */ NdrFcLong( 0xffffffff ), /* -1 */
/* 552 */ NdrFcShort( 0x0 ), /* Corr flags: */
/* 554 */
0x12, 0x0, /*
FC_UP */
/* 556 */ NdrFcShort( 0x176 ), /* Offset=
374 (930) */
/* 558 */ 0x5c, /* FC_PAD */
0x5b, /*
FC_END */
/* 560 */
0x1a, /*
FC_BOGUS_STRUCT */
0x3, /*
3 */
/* 562 */ NdrFcShort( 0x10 ), /* 16 */
/* 564 */ NdrFcShort( 0x0 ), /* 0 */
/* 566 */ NdrFcShort( 0x6 ), /* Offset= 6 (572) */
/* 568 */ 0x8, /* FC_LONG */
0x39, /*
FC_ALIGNM8 */
/* 570 */ 0x36, /* FC_POINTER */
0x5b, /*
FC_END */
/* 572 */
0x11, 0x0, /*
FC_RP */
/* 574 */ NdrFcShort( 0xffffffffdc ), /* Offset= -
36 (538) */
/* 576 */
0x2E, /*
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 */
0x0b, /*
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( 0xfffffddc ), /* Offset= -
36 (628) */
/* 666 */
0x1d, /*
FC_SMFARRAY */
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( 0xfffffff1
), /* 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( 0xffffffe7
), /* Offset= -25 (672) */
0x5b, /*
FC_END */
/* 700 */
0x11, 0x0, /*
FC_RP */
/* 702 */ NdrFcShort( 0xfffffff10 ), /* 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( 0xffffffe6 ), /* Offset= -
26 (704) */
/* 732 */

```

```

FC_CARRAY */          0x1b,          /*
1 */
/* 734 */ NdrPcShort( 0x2 ), /* 2 */
/* 736 */ 0x19,          /* Corr desc: field
pointer, FC_ULONG */
0x0,          /*
*/
/* 738 */ NdrPcShort( 0x0 ), /* 0 */
/* 740 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 742 */ 0x6,          /* FC_SHORT */
FC_END */
/* 744 */
0x1a,          /*
FC_BOGUS_STRUCT */
0x3,          /*
3 */
/* 746 */ NdrPcShort( 0x10 ), /* 16 */
/* 748 */ NdrPcShort( 0x0 ), /* 0 */
/* 750 */ NdrPcShort( 0x6 ), /* Offset= 6 (756) */
/* 752 */ 0x8,          /* FC_LONG */
0x39,          /*
FC_ALIGNM8 */
/* 754 */ 0x36,          /* FC_POINTER */
FC_END */
/* 756 */
0x12, 0x0,          /*
FC_UP */
/* 758 */ NdrPcShort( 0xfffffe6 ), /* Offset= -
26 (732) */
/* 760 */
0x1b,          /*
FC_CARRAY */
0x3,          /*
3 */
/* 762 */ NdrPcShort( 0x4 ), /* 4 */
/* 764 */ 0x19,          /* Corr desc: field
pointer, FC_ULONG */
0x0,          /*
*/
/* 766 */ NdrPcShort( 0x0 ), /* 0 */
/* 768 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 770 */ 0x8,          /* FC_LONG */
FC_END */
/* 772 */
0x1a,          /*
FC_BOGUS_STRUCT */
0x3,          /*
3 */
/* 774 */ NdrPcShort( 0x10 ), /* 16 */
/* 776 */ NdrPcShort( 0x0 ), /* 0 */
/* 778 */ NdrPcShort( 0x6 ), /* Offset= 6 (784) */
/* 780 */ 0x8,          /* FC_LONG */
0x39,          /*
FC_ALIGNM8 */
/* 782 */ 0x36,          /* FC_POINTER */

```

```

FC_END */
/* 784 */
0x12, 0x0,          /*
FC_UP */
/* 786 */ NdrPcShort( 0xfffffe6 ), /* Offset= -
26 (760) */
/* 788 */
0x1b,          /*
FC_CARRAY */
0x7,          /*
7 */
/* 790 */ NdrPcShort( 0x8 ), /* 8 */
/* 792 */ 0x19,          /* Corr desc: field
pointer, FC_ULONG */
0x0,          /*
*/
/* 794 */ NdrPcShort( 0x0 ), /* 0 */
/* 796 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 798 */ 0xb,          /* FC_HYPER */
FC_END */
/* 800 */
0x1a,          /*
FC_BOGUS_STRUCT */
0x3,          /*
3 */
/* 802 */ NdrPcShort( 0x10 ), /* 16 */
/* 804 */ NdrPcShort( 0x0 ), /* 0 */
/* 806 */ NdrPcShort( 0x6 ), /* Offset= 6 (812) */
/* 808 */ 0x8,          /* FC_LONG */
0x39,          /*
FC_ALIGNM8 */
/* 810 */ 0x36,          /* FC_POINTER */
FC_END */
/* 812 */
0x12, 0x0,          /*
FC_UP */
/* 814 */ NdrPcShort( 0xfffffe6 ), /* Offset= -
26 (788) */
/* 816 */
0x15,          /*
FC_STRUCT */
0x3,          /*
3 */
/* 818 */ NdrPcShort( 0x8 ), /* 8 */
/* 820 */ 0x8,          /* FC_LONG */
0x8,          /*
FC_LONG */
/* 822 */ 0x5c,          /* FC_PAD */
FC_END */
/* 824 */
0x1b,          /*
FC_CARRAY */
0x3,          /*
3 */
/* 826 */ NdrPcShort( 0x8 ), /* 8 */
/* 828 */ 0x7,          /* Corr desc: FC_USHORT
*/

```

```

0x0,          /*
*/
/* 830 */ NdrPcShort( 0xffc8 ), /* -56 */
/* 832 */ NdrPcShort( 0x1 ), /* Corr flags: early,
*/
/* 834 */ 0x4c,          /* FC_EMBEDDED_COMPLEX
*/
0x0,          /*
0 */
/* 836 */ NdrPcShort( 0xfffffec ), /* Offset= -
20 (816) */
/* 838 */ 0x5c,          /* FC_PAD */
0x5b,          /*
FC_END */
/* 840 */
0x1a,          /*
FC_BOGUS_STRUCT */
0x3,          /*
3 */
/* 842 */ NdrPcShort( 0x38 ), /* 56 */
/* 844 */ NdrPcShort( 0xfffffec ), /* Offset= -
20 (824) */
/* 846 */ NdrPcShort( 0x0 ), /* Offset= 0 (846) */
/* 848 */ 0x6,          /* FC_SHORT */
0x6,          /*
FC_SHORT */
/* 850 */ 0x38,          /* FC_ALIGNM4 */
0x8,          /*
FC_LONG */
/* 852 */ 0x8,          /* FC_LONG */
0x4c,          /*
FC_EMBEDDED_COMPLEX */
/* 854 */ 0x4,          /* 4 */
NdrPcShort( 0xfffffe0d
), /* Offset= -499 (356) */
0x5b,          /*
FC_END */
/* 858 */
0x12, 0x0,          /*
FC_UP */
/* 860 */ NdrPcShort( 0xfffff02 ), /* Offset= -
254 (606) */
/* 862 */
0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 864 */ 0x1,          /* FC_BYTE */
0x5c,          /*
FC_PAD */
/* 866 */
0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 868 */ 0x6,          /* FC_SHORT */
0x5c,          /*
FC_PAD */
/* 870 */
0x12, 0x8,          /*
FC_UP [simple_pointer] */
/* 872 */ 0x8,          /* FC_LONG */
0x5c,          /*
FC_PAD */
/* 874 */
0x12, 0x8,          /*
FC_UP [simple_pointer] */

```

```

/* 876 */ 0xa,          /* FC_FLOAT */
FC_PAD /*
/* 878 */
FC_UP [simple_pointer] /*
/* 880 */ 0xc,          /* FC_DOUBLE */
FC_PAD /*
/* 882 */
FC_UP /*
/* 884 */ NdrFcShort( 0xfffffa4 ), /* 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 /*
/* 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( 0xfffff2 ), /* 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( 0xffffff4 ), /* 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_uid] interfaces */
    0, /* Filler1 */
    0, /* Filler2 */
    0 /* Filler3 */
};

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

```


tpcc_com_sl.rgs

```
HKCR
{
    TPCC.StockLevel.1 = s 'StockLevel Class'
    {
        CLSID = s '{2668369E-A50D-11D2-BA4E-00C04FBFE08B}'
    }
    TPCC.StockLevel = s 'StockLevel Class'
    {
        CurVer = s 'TPCC.StockLevel.1'
    }
    NoRemove CLSID
    {
        ForceRemove {2668369E-A50D-11D2-BA4E-00C04FBFE08B} = s 'StockLevel Class'
    }
    ProgID = s
    'TPCC.StockLevel.1'
    VersionIndependentProgID = s
    'TPCC.StockLevel'
    InprocServer32 = s
    {
        val
    }
    ThreadingModel = s 'Both'
}
}
```

tpcc_dblib.cpp

```
/* FILE: TPCC_DBLIB.CPP
 * Microsoft
 * TPC-C Kit Ver. 4.20.000
 * Copyright
 * Microsoft, 1999
 * All Rights Reserved
 *
 * Version
 * 4.10.000 audited by Richard Gimarc, Performance
 * Metrics, 3/17/99
 *
 * PURPOSE: Implements dblib calls for TPC-C
 * txns.
 * Contact: Charles Levine
 * (clevine@microsoft.com)
 *
 * Change history:
 * 4.20.000 - updated rev number to
 * match kit
 * 4.10.001 - not deleting error
 * class in catch handler on deadlock retry;
 * not a
 * functional bug, but a memory leak
```

```
* - had to
* tweak some declarations to compile with latest SDK;
* no functional change
*/

#include <windows.h>
#include <stdio.h>
#include <assert.h>

#define DBNTWIN32
#include <sqlfront.h>
#include <sqldb.h>

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

// need to declare functions for export
#define DllDecl __declspec( dllexport )

#include "..\..\common\src\error.h"
#include "..\..\common\src\trans.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_dblib.h"

#define DEFCLPCKSIZE
4096

// version string; must match return value from
tpcc_version stored proc
const char sVersion[] = "4.10.000";

const iMaxRetries = 10;
// how many retries on deadlock
static long iConnectionCount = 0; // number
of current dblib connections

const int iErrOleDbProvider = 7312;
const char sErrTimeoutExpired[] = "Timeout expired";

BOOL APIENTRY DllMain(HMODULE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{
    switch( ul_reason_for_call )
    {
        case DLL_PROCESS_ATTACH:
            DisableThreadLibraryCalls(hModule);
            dbinit(); //
            initialize dblib
            break;

        case DLL_PROCESS_DETACH:
            close all dblib structures/connections
            break;

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

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

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

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

/* FUNCTION: int msg_handler(DBPROCESS *dbproc, DBINT
msgno, int msgstate, int severity, char *msgtext)
 *
 * PURPOSE: This function handles DB-Library
 * SQL Server error messages
 *
 * ARGUMENTS: DBPROCESS *dbproc
 * DBPROCESS id pointer
 * DBINT
 *
 * msgno
 * message number
 *
 * msgstate
 * message state
 *
 * severity
 * message severity
 *
 * msgtext
 * char
 * printable
 *
 * message description
 *
 * RETURNS: int
 * INT_CONTINUE continue if
 * error is SQLETIME else INT_CANCEL action
 *
 * INT_CANCEL
 *
 * cancel operation
 *
 * COMMENTS: This function also sets the dead
 * lock dbproc variable if necessary.
 *
 */

// typedef INT (SQLAPI *DBMSGHANDLE_PROC) (PDBPROCESS,
DBINT, INT, INT, LPCSTR, LPCSTR, LPCSTR,
DBUSMALLINT);

int msg_handler(DBPROCESS *dbproc, DBINT msgno, int
msgstate, int severity,
LPCSTR
msgtext, LPCSTR srvname, LPCSTR procname, DBUSMALLINT
line)
{
}
```

```

CTPCC_DBLIB
*pConn;

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

if (pConn != NULL)
{
    pConn->SetSqlError( msgno,
msgstate, severity, msgtext );
}

return 0;
}

/* FUNCTION: void UtilStrCpy(char * pDest, char *
pSrc, int n)
*
* PURPOSE:      This function copies n characters
from string pSrc to pDst and places a
*              null character at the
end of the destination string.
*
* ARGUMENTS:   char
               *pDest destination string pointer
               char
               *pSrc  source string pointer
               int
               n
               number of characters to copy
*
* RETURNS:     None
*
* COMMENTS:    Unlike strncpy this function
ensures that the result string is
               always null
terminated.
*
*/

inline static void UtilStrCpy(char * pDest, const
BYTE * pSrc, int n)
{
    strncpy(pDest, (char *)pSrc, n);
    pDest[n] = '\0';

    return;
}

/* FUNCTION: CTPCC_DBLIB_ERR::ErrorText
*
*/

char* CTPCC_DBLIB_ERR::ErrorText(void)
{
    int i;

    static SERRORMSG errorMsgs[] =
    {
        { ERR_WRONG_SP_VERSION,
"Wrong version of stored procs on database
server" },

```

```

        { ERR_INVALID_CUST,
"Invalid Customer id,name." },
        { ERR_NO_SUCH_ORDER,
"No orders found for customer." },
        { ERR_RETRIED_TRANS,
"Retries before transaction succeeded."
        },
        { 0, ""
        }
    };

    static char szNotFound[] = "Unknown error
number.";

    for(i=0; errorMsgs[i].szMsg[0]; i++)
    {
        if ( m_errno ==
errorMsgs[i].iError )
            break;
    }
    if ( !errorMsgs[i].szMsg[0] )
        return szNotFound;
    else
        return errorMsgs[i].szMsg;
}

// wrapper routine for class constructor
__declspec(dllexport) CTPCC_DBLIB* CTPCC_DBLIB_new(
LPCSTR szServer, // name of
SQL server
LPCSTR szUser, //
user name for login
LPCSTR szPassword, // password
for login
LPCSTR szHost, //
workstation name; shows up in sp_who; max 30 chars,
only first 10 kept by SQL Server
LPCSTR szDatabase ) // name of
database to use
{
    return new CTPCC_DBLIB( szServer, szUser,
szPassword, szHost, szDatabase );
}

CTPCC_DBLIB::CTPCC_DBLIB (
LPCSTR szServer, // name of
SQL server
LPCSTR szUser, //
user name for login
LPCSTR szPassword, // password
for login
LPCSTR szHost, //
workstation name; shows up in sp_who; max 30 chars,
only first 10 kept by SQL Server
LPCSTR szDatabase ) // name of
database to use
{

```

```

LOGINREC *login;
const BYTE *pData;

// initialization
m_dbproc = NULL;
m_DbLibErr = (CDBLIBERR*)NULL;
m_SqlErr = (CSQLERR*)NULL;

m_MaxRetries = 10; // how many
retries on deadlock

// increase max number of connections if
getting close
if ( dbgetmaxprocs() < (iConnectionCount+5)
)
{
    if (
dbsetmaxprocs(iConnectionCount+10) == FAIL )
        ThrowError(CDBLIBERR::eDbSetMaxProcs);
}

// allocate a login structure
login = dblogin();
if (login == NULL)
    ThrowError(CDBLIBERR::eLogin);
InterlockedIncrement( &iConnectionCount );

// register error and message handler
functions
if (dbprocerrhandle(login, err_handler) ==
NULL)
    ThrowError(CDBLIBERR::eDbProcHandler);

if (dbprocmsghandle(login, msg_handler) ==
NULL)
    ThrowError(CDBLIBERR::eDbProcHandler);

DBSETLUSER(login, szUser);
DBSETLPWD(login, szPassword);
DBSETLHOST(login, szHost);
DBSETLPACKET(login, (unsigned
short)DEFCLPACKSIZE);
DBSETLVERSION(login, DBVER60);
// use dblink ver 6.0 client behavior

// set time to wait for login
if (dbsetlogintime(60) == FAIL)
    ThrowError(CDBLIBERR::eDbSet);

// set time to wait for statement execution
if (dbsettime(180) == FAIL)
    ThrowError(CDBLIBERR::eDbSet);

m_dbproc = dbopen(login, szServer);

// deallocate login structure before
checking for success
dbfreelogin( login );

```

```

    if (m_dbproc == NULL)
        ThrowError(CDBLIBERR::eDbOpen);

    // save address of class instance so that
    the message and error handler
    // can get to data.
    dbsetuserdata(m_dbproc, (LPVOID)this);

    // Use the the right database
    if (dbuse(m_dbproc, szDatabase) == FAIL)
        ThrowError(CDBLIBERR::eDbUse);

    dbcmd(m_dbproc, "set nocount on ");
    // do not return row counts
    dbcmd(m_dbproc, "set XACT_ABORT ON");
    // rollback transaction on abort

    if (dbsqlexec(m_dbproc) == FAIL)
        ThrowError(CDBLIBERR::eDbSqlExec);

    DiscardNextResults(2);

    // verify that version of stored procs on
    server is correct
    dbrpcinit(m_dbproc, "tpcc_version", 0);
    if (dbrpcexec(m_dbproc) == FAIL)
        ThrowError(CDBLIBERR::eDbRpcExec);

    if (dbresults(m_dbproc) != SUCCEED)
        ThrowError(CDBLIBERR::eDbResults);

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

    char szSrvVersion[16];
    pData=dbdata(m_dbproc, 1);
    if (pData)
        UtilStrCpy(szSrvVersion, pData,
    dbdatlen(m_dbproc, 1));
    else
        szSrvVersion[0]=0;
    if (strcmp(szSrvVersion,sVersion))
        throw new CTPCC_DBLIB_ERR(
    CTPCC_DBLIB_ERR::ERR_WRONG_SP_VERSION );

    DiscardNextRows(0);
    DiscardNextResults(0);
}

CTPCC_DBLIB::~CTPCC_DBLIB( void )
{
    // close db connection and deallocate
    resources
    dbclose(m_dbproc);
    InterlockedDecrement( &iConnectionCount );
    if (m_DbLibErr != NULL)

```

```

        delete m_DbLibErr;
    if (m_SqlErr != NULL)
        delete m_SqlErr;
}

void CTPCC_DBLIB::SetDbLibError(int severity, int
dberr, int oserr, LPCSTR dberrstr, LPCSTR oserrstr)
{
    delete m_DbLibErr;
    m_DbLibErr = new
    CDBLIBERR(CDBLIBERR::eUnknown, severity, dberr,
    oserr);

    if (dberrstr != NULL)
    {
        m_DbLibErr->m_dberrstr = new
    char[ strlen(dberrstr)+1 ];
        strcpy( m_DbLibErr->m_dberrstr,
    dberrstr );
    }

    if (oserrstr != NULL)
    {
        m_DbLibErr->m_oserrstr = new
    char[ strlen(oserrstr)+1 ];
        strcpy( m_DbLibErr->m_oserrstr,
    oserrstr );
    }
}

void CTPCC_DBLIB::SetSqlError( int /*DBINT*/ msgno,
int msgstate, int severity, LPCSTR msgtext )
{
    if (m_SqlErr == NULL)
        m_SqlErr = new CSQLERR();

    m_SqlErr->m_msgno = msgno;
    m_SqlErr->m_msgstate = msgstate;
    m_SqlErr->m_severity = severity;

    delete [] m_SqlErr->m_msgtext;
    if (msgtext != NULL)
    {
        m_SqlErr->m_msgtext = new char[
    strlen(msgtext)+1 ];
        strcpy( m_SqlErr->m_msgtext,
    msgtext );
    }
}

void CTPCC_DBLIB::ThrowError( CDBLIBERR::ACTION
eAction )
{
    // discard anything still in return buffer
    DiscardNextRows(-1);
    DiscardNextResults(-1);

    // check for SQL Server error first; if
    yes, throw it and ignore any DBLib error.
    if (m_SqlErr != NULL)
    {
        CSQLERR *pSqlErr;

```

```

        pSqlErr = m_SqlErr;
        m_SqlErr = NULL; // clear our
        pointer to instance; catch handler will delete
        throw pSqlErr;
    }

    CDBLIBERR *pDbLibErr;
    if (m_DbLibErr == NULL)
        // this case isn't expected to
        happen, since it means that an error was returned
        // but the error handlers were
        not called.
        pDbLibErr = new
    CDBLIBERR(eAction);
    else
    {
        pDbLibErr = m_DbLibErr;
        pDbLibErr->m_eAction = eAction;
        m_DbLibErr = NULL; //
        clear our pointer to instance; catch handler will
        delete
    }

    throw pDbLibErr;
}

// Read and discard rows until no more. Throw an
exception if number of rows read doesn't
// match number of rows expected. The row count will
be ignored if the expected count value
// passed in is negative. A typical use of this
routine is to verify that there are no more
// rows to be read.
void CTPCC_DBLIB::DiscardNextRows(int iExpectedCount)
{
    int iRowsRead = 0;
    RETCODE rc;

    while (TRUE)
    {
        rc = dbnextrow(m_dbproc);
        if (rc == NO_MORE_ROWS)
            break;
        if (rc == FAIL)
        {
            if (iExpectedCount >=
    0)
                ThrowError(CDBLIBERR::eDbNextRow);
            else
                break;
        }
        iRowsRead++;
    }

    if ((iExpectedCount >= 0) &&
    (iExpectedCount != iRowsRead))
        ThrowError(CDBLIBERR::eWrongRowCount);
}

// Read and discard results until no more. Throw an
exception if number of result sets read doesn't

```

```

// match number expected. The result set count will
// be ignored if the expected count value
// passed in is negative. A typical use of this
// routine is to verify that there are no more
// result sets to be read.
void CTPCC_DBLIB::DiscardNextResults(int
iExpectedCount)
{
    int          iResultsRead = 0;
    RETCODE     rc;

    while (TRUE)
    {
        rc = dbresults(m_dbproc);
        if (rc == NO_MORE_RESULTS)
            break;
        if (rc == FAIL)
        {
            if (iExpectedCount >=
0)

                ThrowError(CDBLIBERR::eDbResults);
            else
                break;
        }

        DiscardNextRows(-1);
        iResultsRead++;
    }

    if ((iExpectedCount >= 0) &&
        (iExpectedCount != iResultsRead))

        ThrowError(CDBLIBERR::eWrongRowCount);
}

void CTPCC_DBLIB::StockLevel()
{
    int          iTryCount =
0;
    const BYTE   *pData;

    ResetError();

    while (TRUE)
    {
        try
        {
            dbrpcinit(m_dbproc,
"tpcc_stocklevel", 0);

            dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -1, -1, (BYTE *)
&m_txn.StockLevel.w_id); // @w_id
            smallint
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.StockLevel.d_id); // @d_id
            tinyint
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -1, -1, (BYTE *)
&m_txn.StockLevel.threshold); // @threshold
            smallint

```

```

            if (dbrpcexec(m_dbproc)
== FAIL)

                ThrowError(CDBLIBERR::eDbRpcExec);

            if (dbresults(m_dbproc)
!= SUCCEEDED)

                ThrowError(CDBLIBERR::eDbResults);

            if (dbnextrow(m_dbproc)
!= REG_ROW)

                ThrowError(CDBLIBERR::eDbNextRow);

            if
(pData=dbdata(m_dbproc, 1))

                m_txn.StockLevel.low_stock = *((long *)
pData);

            DiscardNextRows(0);
            DiscardNextResults(0);

            m_txn.StockLevel.exec_status_code = eOK;
            return;
        }
        catch (CSQLERR *e)
        {
            if ((e->m_msgno == 1205

||

== iErrOleDbProvider &&
>m_msgtext, sErrTimeoutExpired) != NULL) &&
<= iMaxRetries))

                {
                    // hit
                    deadlock; backoff for increasingly longer period
                    delete e;
                    Sleep(10 *
iTryCount);

                }
            else
                throw;
        }
    } // while (TRUE)

    //if (iTryCount)
    //    throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_DBLIB::NewOrder()
{
    int          i;
    DBINT        commit_flag;
    DBDATETIME   datetime;

```

```

    DBDATEREC   daterec;

    int          iTryCount =
0;
    const BYTE   *pData;

    ResetError();

    while (TRUE)
    {
        try
        {
            dbrpcinit(m_dbproc,
"tpcc_neworder", 0);

            dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -1, -1, (BYTE *)
&m_txn.NewOrder.w_id);
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.NewOrder.d_id);
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.NewOrder.c_id);
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.NewOrder.o_ol_cnt);

            // check whether any
            order lines are for a remote warehouse

            m_txn.NewOrder.o_all_local = 1;
            for (i = 0; i <
m_txn.NewOrder.o_ol_cnt; i++)

                {
                    if
(m_txn.NewOrder.OL[i].ol_supply_w_id !=
m_txn.NewOrder.w_id)

                        {
                            m_txn.NewOrder.o_all_local = 0; // at
                            least one remote warehouse

                            break;
                        }
                }

            dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.NewOrder.o_all_local);

            for (i = 0; i <
m_txn.NewOrder.o_ol_cnt; i++)

                {
                    dbrpcparam(m_dbproc, NULL, 0, SQLINT4, -1,
-1, (BYTE *) &m_txn.NewOrder.OL[i].ol_i_id);
                    dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1,
-1, (BYTE *) &m_txn.NewOrder.OL[i].ol_supply_w_id);
                    dbrpcparam(m_dbproc, NULL, 0, SQLINT2, -1,
-1, (BYTE *) &m_txn.NewOrder.OL[i].ol_quantity);
                }

```

```

        if (dbrpcexec(m_dbproc)
== FAIL)
    ThrowError(CDBLIBERR::eDbRpcExec);

    // Get order line
results
    m_txn.NewOrder.total_amount = 0;
    for (i = 0;
i<m_txn.NewOrder.o_ol_cnt; i++)
    {
        if
(dbresults(m_dbproc) != SUCCEEDED)
            ThrowError(CDBLIBERR::eDbResults);

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

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

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

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

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

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

        if (pData=dbdata(m_dbproc, 5))

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

```

```

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

        DiscardNextRows(0);
    }

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

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

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

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

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

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

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

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

    if
(pData=dbdata(m_dbproc, 6))

```

```

        UtilStrCpy(m_txn.NewOrder.c_credit, pData,
dbdatlen(m_dbproc, 6));
    if
(pData=dbdata(m_dbproc, 7))
    {
        datetime =
*(DBDATETIME *) pData);

        dbdatecrack(m_dbproc, &daterec, &datetime);

        m_txn.NewOrder.o_entry_d.year =
daterec.year;

        m_txn.NewOrder.o_entry_d.month =
daterec.month;

        m_txn.NewOrder.o_entry_d.day =
daterec.day;

        m_txn.NewOrder.o_entry_d.hour =
daterec.hour;

        m_txn.NewOrder.o_entry_d.minute =
daterec.minute;

        m_txn.NewOrder.o_entry_d.second =
daterec.second;
    }
    if
(pData=dbdata(m_dbproc, 8))
        commit_flag =
*(DBTINYINT *) pData);

        DiscardNextRows(0);
        DiscardNextResults(0);

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

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

        return;
    }
    catch (CSQLERR *e)
    {
        if ((e->m_msgno == 1205
||
== 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;
    DBDATETIME    daterec;

    int            iTryCount =
0;
    const BYTE     *pData;

    ResetError();

    while (TRUE)
    {
        try
        {
            dbrpcinit(m_dbproc,
"tpcc_payment", 0);

            dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -1, -1, (BYTE *)
&m_txn.Payment.w_id);
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -1, -1, (BYTE *)
&m_txn.Payment.c_w_id);
            dbrpcparam(m_dbproc,
NULL, 0, SQLFLT8, -1, -1, (BYTE *)
&m_txn.Payment.h_amount);
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.Payment.d_id);
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.Payment.c_d_id);
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT4, -1, -1, (BYTE *)
&m_txn.Payment.c_id);

            // if customer id is
zero, then payment is by name
            if (m_txn.Payment.c_id
== 0)

```

```

            dbrpcparam(m_dbproc, NULL, 0, SQLCHAR, -1,
strlen(m_txn.Payment.c_last), (unsigned char
*)m_txn.Payment.c_last);

            if (dbrpcexec(m_dbproc)
== FAIL)
                ThrowError(CDBLIBERR::eDbRpcExec);

            if (dbresults(m_dbproc)
!= SUCCEEDED)
                ThrowError(CDBLIBERR::eDbResults);

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

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

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

```

```

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

```



```

rc =
dbnextrow(m_dbproc);
NO_MORE_ROWS)
    break;
REG_ROW)
    if (rc !=
        ThrowError(CDBLIBERR::eDbNextRow);
        if (pData=dbdata(m_dbproc, 1))
            m_txn.OrderStatus.OL[i].ol_supply_w_id =
            (*DBSMALLINT *) pData);
            if (pData=dbdata(m_dbproc, 2))
                m_txn.OrderStatus.OL[i].ol_i_id = (*DBINT
                *) pData);
                if (pData=dbdata(m_dbproc, 3))
                    m_txn.OrderStatus.OL[i].ol_quantity =
                    (*DBSMALLINT *) pData);
                    if (pData=dbdata(m_dbproc, 4))
                        dbconvert(m_dbproc, SQLNUMERIC,
                        (LPCBYTE)pData, dbdatlen(m_dbproc,4),
                        SQLFLT8, (BYTE
                        *)&m_txn.OrderStatus.OL[i].ol_amount, 8);
                        if (pData=dbdata(m_dbproc, 5))
                            {
                                datetime = *((DBDATETIME *) pData);
                                dbdatecrack(m_dbproc, &daterec, &datetime);
                                m_txn.OrderStatus.OL[i].ol_delivery_d.year
                                = daterec.year;
                                m_txn.OrderStatus.OL[i].ol_delivery_d.month
                                = daterec.month;
                                m_txn.OrderStatus.OL[i].ol_delivery_d.day
                                = daterec.day;
                                m_txn.OrderStatus.OL[i].ol_delivery_d.hour
                                = daterec.hour;
                                m_txn.OrderStatus.OL[i].ol_delivery_d.minut
                                e = daterec.minute;
                                m_txn.OrderStatus.OL[i].ol_delivery_d.secon
                                d = daterec.second;
                                }
                                i++;
                            }
    }

```

```

m_txn.OrderStatus.o_ol_cnt = i;
    if (dbresults(m_dbproc)
    != SUCCEEDED)
        ThrowError(CDBLIBERR::eDbResults);
        if (dbnextrow(m_dbproc)
    != REG_ROW)
            ThrowError(CDBLIBERR::eDbNextRow);
            if (dbnumcols(m_dbproc)
    != 8)
                ThrowError(CDBLIBERR::eWrongNumCols);
                if (pData=dbdata(m_dbproc, 1))
                    m_txn.OrderStatus.c_id = (*DBINT *)
                    pData);
                    if (pData=dbdata(m_dbproc, 2))
                        UtilStrCpy(m_txn.OrderStatus.c_last, pData,
                        dbdatlen(m_dbproc,2));
                        if (pData=dbdata(m_dbproc, 3))
                            UtilStrCpy(m_txn.OrderStatus.c_first,
                            pData, dbdatlen(m_dbproc,3));
                            if (pData=dbdata(m_dbproc, 4))
                                UtilStrCpy(m_txn.OrderStatus.c_middle,
                                pData, dbdatlen(m_dbproc, 4));
                                if (pData=dbdata(m_dbproc, 5))
                                    {
                                        datetime =
                                        *((DBDATETIME *) pData);
                                        dbdatecrack(m_dbproc, &daterec, &datetime);
                                        m_txn.OrderStatus.o_entry_d.year
                                        =
                                        daterec.year;
                                        m_txn.OrderStatus.o_entry_d.month
                                        =
                                        daterec.month;
                                        m_txn.OrderStatus.o_entry_d.day
                                        =
                                        daterec.day;
                                        m_txn.OrderStatus.o_entry_d.hour
                                        =
                                        daterec.hour;
                                        m_txn.OrderStatus.o_entry_d.minute
                                        =
                                        daterec.minute;
                                    }

```

```

m_txn.OrderStatus.o_entry_d.second =
daterec.second;
    }
    if (pData=dbdata(m_dbproc, 6))
        m_txn.OrderStatus.o_carrier_id =
        (*DBSMALLINT *) pData);
        if (pData=dbdata(m_dbproc, 7))
            dbconvert(m_dbproc, SQLNUMERIC,
            (LPCBYTE)pData, dbdatlen(m_dbproc,7),
            SQLFLT8, (BYTE
            *)&m_txn.OrderStatus.c_balance, 8);
            if (pData=dbdata(m_dbproc, 8))
                m_txn.OrderStatus.o_id = (*DBINT *)
                pData);
                DiscardNextRows(0);
                DiscardNextResults(0);
                if
                (m_txn.OrderStatus.o_ol_cnt == 0)
                    throw new
                    CTPCC_DBLIB_ERR( CTPCC_DBLIB_ERR::ERR_NO_SUCH_ORDER
                    );
                    else if
                    (m_txn.OrderStatus.c_id == 0 &&
                    m_txn.OrderStatus.c_last[0] == 0)
                        throw new
                        CTPCC_DBLIB_ERR( CTPCC_DBLIB_ERR::ERR_INVALID_CUST );
                        else
                            m_txn.OrderStatus.exec_status_code = eOK;
                            return;
                    }
                    catch (CSQLERR *e)
                    {
                        if ((e->m_msgno == 1205
                        (e->m_msgno
                        == iErrOleDbProvider &&
                        strstr(e-
                        >m_msgtext, sErrTimeoutExpired) != NULL)) &&
                        (++iTryCount
                        <= iMaxRetries))
                            {
                                // hit
                                deadlock; backoff for increasingly longer period
                                delete e;
                                Sleep(10 *
                                iTryCount);
                                }
                                else
                                    throw;
                            }

```



```

    } // while (TRUE)

// if (iTryCount)
// throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_DBLIB::Delivery()
{
    int i;
    int iTryCount =
0;
    const BYTE *pData;

    ResetError();

    while (TRUE)
    {
        try
        {
            dbrpcinit(m_dbproc,
"tpcc_delivery", 0);

            dbrpcparam(m_dbproc,
NULL, 0, SQLINT2, -1, -1, (BYTE *)
&m_txn.Delivery.w_id);
            dbrpcparam(m_dbproc,
NULL, 0, SQLINT1, -1, -1, (BYTE *)
&m_txn.Delivery.o_carrier_id);

            if (dbrpcexec(m_dbproc)
== FAIL)
                ThrowError(CDBLIBERR::eDbRpcExec);

            if (dbresults(m_dbproc)
!= SUCCEEDED)
                ThrowError(CDBLIBERR::eDbResults);

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

            if (dbnumcols(m_dbproc)
!= 10)
                ThrowError(CDBLIBERR::eWrongNumCols);

            for (i=0; i<10; i++)
            {
                if (pData =
dbdata(m_dbproc, i+1))
                    m_txn.Delivery.o_id[i] = *((DBINT *)pData);
            }

            DiscardNextRows(0);
            DiscardNextResults(0);
        }
    }
}

```

```

    m_txn.Delivery.exec_status_code = eOK;
    return;
}
catch (CSQLERR *e)
{
    if ((e->m_msgno == 1205
||
(e->m_msgno
== iErrOleDbProvider &&
strstr(e-
>m_msgtext, sErrTimeoutExpired) != NULL)) &&
(++iTryCount
<= iMaxRetries))
    {
        // hit
        deadlock; backoff for increasingly longer period
        delete e;
        Sleep(10 *
iTryCount);
    }
    else
        throw;
}
} // while (TRUE)

// if (iTryCount)
// throw new
CTPCC_DBLIB_ERR(CTPCC_DBLIB_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

void CTPCC_DBLIB::ResetError()
{
    if (m_DbLibErr != NULL)
    {
        delete m_DbLibErr;
        m_DbLibErr = (CDBLIBERR*)NULL;
    }

    if (m_SqlErr != NULL)
    {
        delete m_SqlErr;
        m_SqlErr = (CSQLERR*)NULL;
    }

    return;
}

```

tpcc_dblib.h

```

/* FILE: TPC_C_DBLIB.H
 * Microsoft
 * TPC-C Kit Ver. 4.20.000
 * Copyright
 * Microsoft, 1999
 * All Rights Reserved
 * Version
 * 4.10.000 audited by Richard Gimarc, Performance
 * Metrics, 3/17/99

```

```

 *
 * PURPOSE: Header file for TPC-C txn class
 * implementation.
 *
 * Change history:
 * 4.20.000 - updated rev number to
 * match kit
 */
#pragma once

#ifndef PDBPROCESS
#define DBPROCESS void // dbprocess structure type
typedef DBPROCESS * PDBPROCESS;
#endif

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

class CSQLERR : public CBaseErr
{
public:
    CSQLERR(void)
    {
        m_msgno = 0;
        m_msgstate = 0;
        m_severity = 0;
        m_msgtext = NULL;
    };

    ~CSQLERR()
    {
        delete [] m_msgtext;
    };

    int m_msgno;
    int m_msgstate;
    int m_severity;
    char *m_msgtext;

    int ErrorType() {return
ERR_TYPE_SQL;};

    int ErrorNum() {return m_msgno;};
    char *ErrorText() {return
m_msgtext;};
};

class CDBLIBERR : public CBaseErr
{
public:
    enum ACTION
    {
        eNone,
        eUnknown,
        eLogin,
        // error from dblogin
        eDbOpen,
        // error from dbopen
    };
};

```

```

        eDbUse,
// error from dbuse
        eDbSqlExec,
// error from dbsqlexec
        eDbSet,
// error from one of the dbset*
routines
        eDbNextRow,
// error from dbnextrow
        eWrongRowCount,
// more or less rows returned than expected
        eWrongNumCols,
// more or less columns returned than
expected
        eDbResults,
// error from dbresults
        eDbRpcExec,
// error from dbrpcexec
        eDbSetMaxProcs,
// error from dbsetmaxprocs
        eDbProcHandler
// error from either dbprocerrhandle or
dbprocmsghandle
    };

    CDBLIBERR(ACTION eAction, int
severity = 0, int dberror = 0, int oserr = 0)
    {
        m_eAction = eAction;
        m_severity = severity;
        m_dberror = dberror;
        m_oserr = oserr;

        m_dberrstr = NULL;
        m_oserrstr = NULL;
    };

~CDBLIBERR()
{
    delete [] m_dberrstr;
    delete [] m_oserrstr;
};

ACTION    m_eAction;
int       m_severity;
int       m_dberror;
int       m_oserr;
char     *m_dberrstr;
char     *m_oserrstr;

int ErrorType() {return
ERR_TYPE_DBLIB;};
int ErrorNum() {return
m_dberror;};
char *ErrorText() {return
m_dberrstr;};
};

class CTPCC_DBLIB_ERR : public CBaseErr
{
public:
    enum CTPCC_DBLIB_ERRS

```

```

    {
        ERR_WRONG_SP_VERSION =
1, // "Wrong version of stored procs on
database server"
        ERR_INVALID_CUST,
// "Invalid Customer id,name."
        ERR_NO_SUCH_ORDER,
// "No orders found for
customer."
        ERR_RETRIED_TRANS,
// "Retries before transaction
succeeded."
    };

    CTPCC_DBLIB_ERR( int iErr ) {
m_errno = iErr; m_iTryCount = 0; };

    CTPCC_DBLIB_ERR( int iErr, int
iTryCount ) { m_errno = iErr; m_iTryCount =
iTryCount; };

    int m_errno;
    int m_iTryCount;

    int ErrorType() {return
ERR_TYPE_TPCC_DBLIB;};
    int ErrorNum() {return m_errno;};

    char *ErrorText();
};

class DllDecl CTPCC_DBLIB : public CTPCC_BASE
{
private:
// declare variables and private
functions here...
    PDBPROCESS m_dbproc;
    CDBLIBERR *m_DbLibErr;
// not allocated until needed (maybe never)
    CSQLERR *m_SqlErr;
// not allocated until
needed (maybe never)
    int m_MaxRetries; // retry
count on deadlock

    void DiscardNextRows(int
iExpectedCount);
    void DiscardNextResults(int
iExpectedCount);
    void ThrowError(
CDBLIBERR::ACTION eAction );
    void ResetError();

    union
    {
        NEW_ORDER_DATA
NewOrder;
        PAYMENT_DATA
Payment;
        DELIVERY_DATA
Delivery;

```

```

        STOCK_LEVEL_DATA
StockLevel;
        ORDER_STATUS_DATA
OrderStatus;
    }
    m_txn;

public:
    CTPCC_DBLIB(LPCSTR szServer,
LPCSTR szUser, LPCSTR szPassword, LPCSTR szHost,
LPCSTR szDatabase );
    ~CTPCC_DBLIB(void);

    inline PNEW_ORDER_DATA
BuffAddr_NewOrder() { return
&m_txn.NewOrder; };
    inline PPAYMENT_DATA
BuffAddr_Payment() { return
&m_txn.Payment; };
    inline PDELIVERY_DATA
BuffAddr_Delivery() { return
&m_txn.Delivery; };
    inline PSTOCK_LEVEL_DATA
BuffAddr_StockLevel() { return
&m_txn.StockLevel; };
    inline PORDER_STATUS_DATA
BuffAddr_OrderStatus() { return
&m_txn.OrderStatus; };

    void NewOrder ();
    void Payment ();
    void Delivery ();
    void StockLevel ();
    void OrderStatus ();

// these are public because they
must be called from the dblib err_handler and
msg_hangler
// outside of the class
    void SetDbLibError(int severity,
int dberr, int oserr, LPCSTR dberrstr, LPCSTR
oserrstr);
    void SetSqlError( int msgno, int
msgstate, int severity, LPCSTR msgtext );
};

extern "C" DllDecl CTPCC_DBLIB* CTPCC_DBLIB_new
( LPCSTR szServer, LPCSTR szUser, LPCSTR
szPassword, LPCSTR szHost, LPCSTR szDatabase );

typedef CTPCC_DBLIB* (TYPE_CTPCC_DBLIB)(LPCSTR,
LPCSTR, LPCSTR, LPCSTR, LPCSTR);

tpcc_enc.cpp
// tpcc_enc.cpp: implementation of the CTPCC_ENCINA
class.
//

```

```

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

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

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

// need to declare functions for export
#define DllDecl __declspec( dllexport )

#include "..\..\common\src\trans.h"
//tpckit transaction header contains definitions of
structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_enc.h"
#include "..\include\tpcc_type.h"
#include "mon_client.h"
#include "client_utils.h"

static CRITICAL_SECTION TpCriticalSection;
extern "C" char *errFile;

BOOL WINAPI DllMain(HANDLE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{
    switch( ul_reason_for_call )
    {
        case DLL_PROCESS_ATTACH:

DisableThreadLibraryCalls(hModule);

InitializeCriticalSection(&TpCriticalSection);
break;

        case DLL_PROCESS_DETACH:

DeleteCriticalSection(&TpCriticalSection);
break;

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

// wrapper routine for class constructor
__declspec( dllexport ) CTPCC_ENCINA*
CTPCC_ENCINA_new()
{

```

```

return new CTPCC_ENCINA();
}

// wrapper routine for enroll_client
__declspec( dllexport ) CTPCC_ENCINA*
CTPCC_ENCINA_post_init()
{
    enroll_client();
    return NULL;
}

// constructor and destructor
CTPCC_ENCINA::CTPCC_ENCINA()
{
    // Add initialization of ENCINA
Structures if any
    m_txn = (ENC_DATA
*)malloc(sizeof(ENC_DATA));
    if (m_txn == NULL)
        throw new
CENCERR(ERR_TYPE_MEMORY, ERR_FATAL_LEVEL);
}

CTPCC_ENCINA::~CTPCC_ENCINA()
{
    // free the data structure allocated with
tpalloc
    free((char *)m_txn);
}

void CTPCC_ENCINA::NewOrder()
{
    // question: if we need to prepare the
data?
    if (send_new_order(sizeof(ENC_DATA), (unsigned
char *)m_txn) == TRPC_ERROR)
        throw new CENCERR(TRPC_ERROR);

    if ( m_txn->ErrorType != ERR_SUCCESS )
        throw new CENCERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_ENCINA::Payment()
{
    if (send_payment(sizeof(ENC_DATA), (unsigned char
*)m_txn) == TRPC_ERROR)
        throw new CENCERR(TRPC_ERROR);

    if ( m_txn->ErrorType != ERR_SUCCESS )
        throw new CENCERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_ENCINA::Delivery()
{
    // Note: Delivery txn code in the tuxedo
server does not implement logging of the delivery
// txn results, so cannot be used as
is to run an auditable TPC-C result. For that

```

```

// reason, delivery txns should not
be done via Tuxedo.
// The code is included for
completeness.
//m_txn->u.Delivery.exec_status_code =
eDeliveryFailed;
//return;

// Note: If we use the delivery thread in
tpcc.dll, it is not possible to get to this
// point for delivery txns. But if we
use Encina delivery server, the code is
// needed. It is suggested using the
delivery thread in tpcc.dll since it is
// convenient and provides best
performance.
    GetLocalTime(&m_txn-
>u.Delivery.queue_time);

    if (send_delivery(sizeof(ENC_DATA), (unsigned
char *)m_txn) == TRPC_ERROR)
        m_txn-
>u.Delivery.exec_status_code = eDeliveryFailed;
    else
        m_txn-
>u.Delivery.exec_status_code = eOK;
}

void CTPCC_ENCINA::StockLevel()
{
    if (send_stock_level(sizeof(ENC_DATA), (unsigned
char *)m_txn) == TRPC_ERROR)
        throw new CENCERR(TRPC_ERROR);

    if ( m_txn->ErrorType != ERR_SUCCESS )
        throw new CENCERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_ENCINA::OrderStatus()
{
    if (send_order_status(sizeof(ENC_DATA), (unsigned
char *)m_txn) == TRPC_ERROR)
        throw new CENCERR(TRPC_ERROR);

    if ( m_txn->ErrorType != ERR_SUCCESS )
        throw new CENCERR( m_txn-
>ErrorType, m_txn->error );
}

char *CENCERR::ErrorText()
{
    if (m_iErrorType == TRPC_ERROR)
    {
        sprintf( m_szErrorText, "Error:
ENCINA TRPC error (see log file %s for details)",
errFile);
    }
    else
        sprintf( m_szErrorText, "Error:
Class %d, error # %d", m_iErrorType, m_iError );
}

```

```

        return m_szErrorText;
};

```

tpcc_enc.h

```

/*      FILE:          TPCC_ENCINA.H
 *      Microsoft
TPC-C Kit Ver. 4.10.000
 *      not yet
 *      audited
 *
 *      PURPOSE:  Header file for TPC-C Encina
class implementation.
 *      Copyright
Microsoft, 1999
 *      All Rights Reserved
 *
 */

#if !defined(_TPCC_ENCINA_H_)
#define _TPCC_ENCINA_H_

#pragma once

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

class CTPCC_ENCINA : public CTPCC_BASE
{
private:
    struct ENC_DATA
    {
        int
        ErrorType;
        int
        error;

        union
        {
            NEW_ORDER_DATA      NewOrder;
            PAYMENT_DATA        Payment;
            DELIVERY_DATA       Delivery;

            STOCK_LEVEL_DATA    StockLevel;

            ORDER_STATUS_DATA    OrderStatus;
        } u;
    } *m_txn;

public:
    CTPCC_ENCINA();

```

```

    virtual ~CTPCC_ENCINA();

    inline PNEW_ORDER_DATA
    BuffAddr_NewOrder() { return
&m_txn->u.NewOrder; };
    inline PPAYMENT_DATA
    BuffAddr_Payment() { return
&m_txn->u.Payment; };
    inline PDELIVERY_DATA
    BuffAddr_Delivery() { return
&m_txn->u.Delivery; };
    inline PSTOCK_LEVEL_DATA
    BuffAddr_StockLevel() { return
&m_txn->u.StockLevel; };
    inline PORDER_STATUS_DATA
    BuffAddr_OrderStatus() { return
&m_txn->u.OrderStatus; };

    void NewOrder          ();
    void Payment           ();
    void Delivery          ();
    void StockLevel        ();
    void OrderStatus      ();
};

class CENCERR : public CBaseErr
{
private:
    char    m_szErrorText[64];
public:
    int     m_errno;
    //
    int     m_iErrorType;
// match ErrorType in CTPCC_ENCINA
    int     m_iError;
// machine error in CTPCC_ENCINA

    // use this interface for genuine
Encina errors
    CENCERR( int iErr )
    {
        m_errno = iErr; //
        m_iErrorType =
ERR_TYPE_ENCINA;
        m_iError = 0; //
// only meaningful if m_errno == TPEOS
    };

    // use this interface to
impersonate a non-Encina error type
    CENCERR( int iErrorType, int
iError )
    {
        m_iErrorType =
iErrorType;
        m_iError = iError;
        m_errno = iError; //
    };
};

```

```

// A CENCERR class can
impersonate another class, which happens if the error
// was not actually a Tuxedo
error, but was simply transmitted back via Tuxedo.
    int ErrorType()
    {
        return m_iErrorType;
    }

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

// wrapper routine for class constructor:
extern "C" __declspec(dllexport) CTPCC_ENCINA*
CTPCC_ENCINA_new();
extern "C" __declspec(dllexport) CTPCC_ENCINA*
CTPCC_ENCINA_post_init();

typedef CTPCC_ENCINA* (TYPE_CTPCC_ENCINA)();

#endif // !defined(_TPCC_ENCINA_H_)

```

tpcc_odbc.cpp

```

/*      FILE:          TPCC_ODBC.CPP
 *      Microsoft
TPC-C Kit Ver. 4.20.000
 *      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 APIENTRY DllMain(HMODULE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{
    switch( ul_reason_for_call )
    {
        case DLL_PROCESS_ATTACH:

            DisableThreadLibraryCalls(hModule);
            if (
SQLAllocHandleStd(SQL_HANDLE_ENV, SQL_NULL_HANDLE,
&henv) != SQL_SUCCESS )
                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
(strcmp(db_sp_version,sVersion))
    throw new
CTPCC_ODBC_ERR( CTPCC_ODBC_ERR::ERR_WRONG_SP_VERSION
);
SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmt);
}

// Bind parameters for each of the
transactions
InitNewOrderParams();
InitPaymentParams();
InitOrderStatusParams();
InitDeliveryParams();
InitStockLevelParams();
}

CTPCC_ODBC::~CTPCC_ODBC( void )
{
    // note: descriptors are automatically
released when the connection is dropped
SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtNewOrder);
SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtPayment);
SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtDelivery);
SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtOrderStatus);
}

```

```

SQLFreeHandle(SQL_HANDLE_STMT,
m_hstmtStockLevel);

SQLDisconnect(m_hdbc);
SQLFreeHandle(SQL_HANDLE_DBC, m_hdbc);
}

void CTPCC_ODBC::ThrowError( CODBCERR::ACTION eAction
)
{
    RETCODE rc;
    SDWORD lNativeError;
    char szState[6];
    char szMsg[SQL_MAX_MESSAGE_LENGTH];
    char szTmp[6*SQL_MAX_MESSAGE_LENGTH];
    CODBCERR *pODBCErr;
    // not allocated until needed (maybe never)
    pODBCErr = new CODBCERR();

    pODBCErr->m_NativeError = 0;
    pODBCErr->m_eAction = eAction;
    pODBCErr->m_bDeadLock = FALSE;

    szTmp[0] = 0;
    while (TRUE)
    {
        rc = SQLError(henv, m_hdbc,
m_hstmt, (BYTE *)&szState, &lNativeError,
(BYTE *)&szMsg, sizeof(szMsg), NULL);
if (rc == SQL_NO_DATA)
    break;

        // check for deadlock
if (lNativeError == 1205 ||
(lNativeError == iErrOleDbProvider &&
strstr(szMsg,
sErrTimeoutExpired) != NULL))
    pODBCErr->m_bDeadLock =
TRUE;

        // capture the (first) database
error
if (pODBCErr->m_NativeError == 0
&& lNativeError != 0)
    pODBCErr->m_NativeError
= lNativeError;

        // quit if there isn't enough
room to concatenate error text
if ( ( strlen(szMsg) + 2 ) >
(sizeof(szTmp) - strlen(szTmp)) )
    break;

        // include line break after first
error msg
if (szTmp[0] != 0)
    strcat( szTmp, "\n");
    strcat( szTmp, szMsg );
}
}

```

```

if (pODBCErr->m_odbcerrstr != NULL)
{
    delete [] pODBCErr->m_odbcerrstr;
    pODBCErr->m_odbcerrstr = NULL;
}

if (strlen(szTmp) > 0)
{
    pODBCErr->m_odbcerrstr = new
char[ strlen(szTmp)+1 ];
    strcpy( pODBCErr->m_odbcerrstr,
szTmp );
}

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);
}
}

```



```

        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 (CODBCERR *e)
        {
            if (!(e->m_bDeadLock))
                || (++iTryCount > iMaxRetries))
                    throw;

            // hit deadlock;
            backoff for increasingly longer period
            delete e;
            Sleep(10 * iTryCount);
        }
    }

    if (iTryCount)
        // throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);

```

```

}

void CTPCC_ODBC::InitDeliveryParams()
{
    if ( SQLAllocHandle(SQL_HANDLE_STMT,
m_hdbc, &m_hstmtDelivery) != SQL_SUCCESS )

        ThrowError(CODBCERR::eAllocHandle);

    m_hstmt = m_hstmtDelivery;

    int i = 0;
    if ( SQLBindParameter(m_hstmt, ++i,
SQL_PARAM_INPUT, SQL_C_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(CODBCERR::eBindParam);

    for (i=0; i<10; i++)
    {
        if ( SQLBindCol(m_hstmt,
(UWORD)(i+1), SQL_C_SLONG, &m_txn.Delivery.o_id[i],
0, NULL) != SQL_SUCCESS )

            ThrowError(CODBCERR::eBindCol);
    }
}

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(CODBCERR::eExecDirect);

            if ( SQLFetch(m_hstmt)
== SQL_ERROR )

                ThrowError(CODBCERR::eFetch);

            SQLFreeStmt(m_hstmt,
SQL_CLOSE);

            m_txn.Delivery.exec_status_code = eOK;
            break;
        }
        catch (CODBCERR *e)

```

```

{
        if (!(e->m_bDeadLock)
|| (++iTryCount > iMaxRetries))
            throw;

        // hit deadlock;
        backoff for increasingly longer period
        delete e;
        Sleep(10 * iTryCount);
    }
}

// if (iTryCount)
// throw new
CTPCC_ODBC_ERR(CTPCC_ODBC_ERR::ERR_RETRIED_TRANS,
iTryCount);
}

```

tpcc_odbc.h

```

/* FILE:          TPCC_ODBC.H
 *               Microsoft
 * TPC-C Kit Ver. 4.20.000
 *               Copyright
 * Microsoft, 1999
 *               All Rights Reserved
 *
 *               Version
 * 4.10.000 audited by Richard Gimarc, Performance
 * Metrics, 3/17/99
 *
 * PURPOSE: Header file for TPC-C txn class
 * implementation.
 *
 * Change history:
 * 4.20.000 - updated rev number to
 * match kit
 */
#pragma once

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

class CODBCERR : public CBaseErr
{
public:
    enum ACTION
    {
        eNone,
        eUnknown,
        eAllocConn,
        // error from SQLAllocConnect
        eAllocHandle,
        // error from SQLAllocHandle
        eConnOption,
        // error from SQLSetConnectOption
    }

```

```

    eConnect,
    // error from SQLConnect
    eAllocStmt,
    // error from SQLAllocStmt
    eExecDirect,
    // error from SQLExecDirect
    eBindParam,
    // error from SQLBindParameter
    eBindCol,
    // error from SQLBindCol
    eFetch,
    // error from SQLFetch
    eFetchScroll,
    // error from SQLFetchScroll
    eMoreResults,
    // error from SQLMoreResults
    ePrepare,
    // error from SQLPrepare
    eExecute,
    // error from SQLExecute
    eSetEnvAttr,
    // error from SQLSetEnvAttr
    eSetStmtAttr,
    // error from SQLSetStmtAttr
};

CODBCERR(void)
{
    m_eAction = eNone;
    m_NativeError = 0;
    m_bDeadLock = FALSE;
    m_odbcerrstr = NULL;
};

~CODBCERR()
{
    if (m_odbcerrstr !=
NULL)
        delete []
m_odbcerrstr;
};

ACTION m_eAction;
int m_NativeError;
BOOL m_bDeadLock;
char *m_odbcerrstr;

int ErrorType() {return
ERR_TYPE_ODBC;};
int ErrorNum() {return
m_NativeError;};
char *ErrorText() {return
m_odbcerrstr;};
};

class CTPCC_ODBC_ERR : public CBaseErr
{
public:
    enum TPCC_ODBC_ERRS

```

```

        ERR_WRONG_SP_VERSION =
1, // "Wrong version of stored procs on
database server"
        ERR_INVALID_CUST,
// "Invalid Customer id,name."
        ERR_NO_SUCH_ORDER,
// "No orders found for
customer."
        ERR_RETRIED_TRANS,
// "Retries before transaction
succeeded."
    };
    CTPCC_ODBC_ERR( int iErr ) {
m_errno = iErr; m_iTryCount = 0; };
    CTPCC_ODBC_ERR( int iErr, int
iTryCount ) { m_errno = iErr; m_iTryCount =
iTryCount; };
        int m_errno;
        int m_iTryCount;
        int ErrorType() {return
ERR_TYPE_TPCC_ODBC;};
        int ErrorNum() {return m_errno;};
        char *ErrorText();
};
class DllDecl CTPCC_ODBC : public CTPCC_BASE
{
private: // declare variables and private
functions here...
        BOOL m_bDeadlock;
// transaction was selected as
deadlock victim
        int m_MaxRetries; // retry
count on deadlock
        SQLHENV m_henv;
// ODBC environment
handle
        SQLHDBC m_hdbc;
        SQLHSTMT m_hstmt;
// the current hstmt
        SQLHSTMT m_hstmtNewOrder;
        SQLHSTMT m_hstmtPayment;
        SQLHSTMT m_hstmtDelivery;
        SQLHSTMT m_hstmtOrderStatus;
        SQLHSTMT m_hstmtStockLevel;
        SQLHDESC m_descNewOrderCols1;
        SQLHDESC m_descNewOrderCols2;
        SQLHDESC m_descOrderStatusCols1;
        SQLHDESC m_descOrderStatusCols2;
        // new-order specific fields
        SQLINTEGER m_BindOffset;

```

```

        SQLINTEGER
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_TPCC_ODBC) (LPCSTR, LPCSTR,
LPCSTR, LPCSTR, LPCSTR);

```

tpcc_tux.cpp

```

/* FILE: TPCX_TUX.CPP
* Microsoft
TPC-C Kit Ver. 4.20.000
* Copyright
Microsoft, 1999
* All Rights Reserved
* Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
* PURPOSE: Implementation for TPC-C Tuxedo
class.
* Contact: Charles Levine
(clevine@microsoft.com)
* Change history:
* 4.20.000 - updated rev number to
match kit
*/
#include <windows.h>
#include <process.h>
#include <stdio.h>
#include <stdarg.h>
#include <malloc.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <io.h>
#include <assert.h>
#include <tmenv.h>
#include <xa.h>
#include <atmi.h>
#ifdef ICECAP
// for IceCAP profiling
#include <icapexp.h>
#endif
// need to declare functions for export
#define DllDecl __declspec( dllexport )
#include "..\..\common\src\trans.h"
//tpckit transaction header contains
definitions of structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"
#include "tpcc_tux.h"
// interface to Tuxedo libraries

```

```

static TPINIT
*tpinf;
static DWORD
  TLSIsTpInitedKey;
static CRITICAL_SECTION
  TpCriticalSection;

BOOL APIENTRY DllMain(HMODULE hModule, DWORD
ul_reason_for_call, LPVOID lpReserved)
{
    switch( ul_reason_for_call )
    {
        case DLL_PROCESS_ATTACH:

            DisableThreadLibraryCalls(hModule);

            // create thread local
            // storage to determine Tuxedo initialization per
            // thread.
            // it really should be
            // possible to do this in the DLL_THREAD_ATTACH call,
            // but
            // Ed says he could not
            // get it to work.
            // assumption: value
            // init'd to 0
            TLSIsTpInitedKey =
            TlsAlloc();

            if ((tpinf = (TPINIT
*)tpalloc("TPINIT", NULL, sizeof(TPINIT))) == NULL)
            {
                // int TpRc =
                // tperrno;
                return FALSE;
            }
            tpinf->flags |=
            TPMULTICONTEXTS;

            InitializeCriticalSection(&TpCriticalSection);
            break;

            case DLL_PROCESS_DETACH:

                TlsFree(TLSIsTpInitedKey);

                DeleteCriticalSection(&TpCriticalSection);
                break;

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

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

```

```

        // has this thread been initialized? check
        // thread local storage
        if (!TlsGetValue(TLSIsTpInitedKey))
        {
            EnterCriticalSection(&TpCriticalSection);
            itoa(++num_tpinit, tpinf-
>cltname, 10);

            iRc = tpinit(tpinf);
            TpRc = tperrno;

            LeaveCriticalSection(&TpCriticalSection);

            if (iRc < 0)
                throw new CTUXERR(
tperrno );

            int value = 1;

            TlsSetValue(TLSIsTpInitedKey, &value);
        }
    }

    // wrapper routine for class constructor
    __declspec(dllexport) CTPCC_TUXEDO*
    CTPCC_TUXEDO_new()
    {
        return new CTPCC_TUXEDO();
    }

    CTPCC_TUXEDO::CTPCC_TUXEDO()
    {
        // Add initialization of Tuxedo
        Structures
        m_txn = (TUX_DATA *)tpalloc("CARRAY", NULL,
sizeof(TUX_DATA));
        if (m_txn == NULL)
            throw new CTUXERR( tperrno );
    }

    CTPCC_TUXEDO::~CTPCC_TUXEDO()
    {
        // free the data structure allocated with
        tpalloc
        tpfree((char *)m_txn);
    }

    void CTPCC_TUXEDO::NewOrder()
    {
        long ilen, *olen;

        ThrTpInit();

        ilen = sizeof(TUX_DATA);
        olen = &ilen;

        if (tpcall("NEWORDER", (char *)m_txn, ilen,
(char **)&m_txn, (long *)olen, TPSIGRSTRT) == -1)
            throw new CTUXERR( tperrno );

        if ( m_txn->ErrorType != ERR_SUCCESS )

```

```

            throw new CTUXERR( m_txn-
>ErrorType, m_txn->error );
    }

    void CTPCC_TUXEDO::Payment()
    {
        long ilen, *olen;

        ThrTpInit();

        ilen = sizeof(TUX_DATA);
        olen = &ilen;

        if (tpcall("PAYMENT", (char *)m_txn, ilen,
(char **)&m_txn, (long *)olen, TPSIGRSTRT) == -1)
            throw new CTUXERR( tperrno );

        if ( m_txn->ErrorType != ERR_SUCCESS )
            throw new CTUXERR( m_txn-
>ErrorType, m_txn->error );
    }

    void CTPCC_TUXEDO::Delivery()
    {
        int iRc;
        long ilen, *olen;

        // Note: Delivery txn code in the tuxedo
        // server does not implement logging of the delivery
        // txn results, so cannot be used as
        // is to run an auditable TPC-C result. For that
        // reason, delivery txns should not
        // be done via tuxedo.
        // The code is included for
        // completeness.
        m_txn->u.Delivery.exec_status_code =
eDeliveryFailed;
        return;

        // normal path...

        ThrTpInit();

        GetLocalTime(&m_txn-
>u.Delivery.queue_time);

        ilen = sizeof(TUX_DATA);
        olen = &ilen;

        if ((iRc = tpcall("DELIVERY", (char
*)m_txn, ilen, TPNOREPLY)) == -1)
        {
            int TpRc = tperrno;
            m_txn-
>u.Delivery.exec_status_code = eDeliveryFailed;
        }
        else
            m_txn-
>u.Delivery.exec_status_code = eOK;
    }

    void CTPCC_TUXEDO::StockLevel()

```

```

{
    long      ilen, *olen;

    ThrTpInit();

    ilen = sizeof(TUX_DATA);
    olen = &ilen;

    if (tpcall("STOCKLEVEL", (char *)m_txn,
    ilen, (char **)&txn, (long *)olen, TPSIGRSTRT) == -
    1)
        throw new CTUXERR( tperrno );

    if ( m_txn->ErrorType != ERR_SUCCESS )
        throw new CTUXERR( m_txn-
>ErrorType, m_txn->error );
}

void CTPCC_TUXEDO::OrderStatus()
{
    long      ilen, *olen;

    ThrTpInit();

    ilen = sizeof(TUX_DATA);
    olen = &ilen;

    if (tpcall("ORDERSTATUS", (char *)m_txn,
    ilen, (char **)&txn, (long *)olen, TPSIGRSTRT) == -
    1)
        throw new CTUXERR( tperrno );

    if ( m_txn->ErrorType != ERR_SUCCESS )
        throw new CTUXERR( m_txn-
>ErrorType, m_txn->error );
}

char *CTUXERR::ErrorText()
{
    if (m_iErrorType == 0)
    {
        if (m_errno == TPEOS)
            sprintf( m_szErrorText,
"Error: TUXEDO error # %d, OS error # %d", m_errno,
m_iError );
        else
            sprintf( m_szErrorText,
"Error: TUXEDO error # %d", m_errno );
    }
    else
        sprintf( m_szErrorText, "Error:
Class %d, error # %d", m_iErrorType, m_iError );
    return m_szErrorText;
};

```

tpcc_tux.h

```

/*      FILE:          TPCC_TUX.H          Microsoft
*
TPC-C Kit Ver. 4.20.000

```

```

*
*      Copyright
Microsoft, 1999
*      All Rights Reserved
*
*      Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
*
*      PURPOSE:  Header file for TPC-C Tuxedo
class implementation.
*
*      Change history:
*      4.20.000 - updated rev number to
match kit
*/

#pragma once

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

class DllDecl CTPCC_TUXEDO : public CTPCC_BASE
{
private:
    struct TUX_DATA
    {
        int
        ErrorType;
        int
        error;

        union
        {
            NEW_ORDER_DATA      NewOrder;
            PAYMENT_DATA        Payment;
            DELIVERY_DATA       Delivery;

            STOCK_LEVEL_DATA    StockLevel;

            ORDER_STATUS_DATA   OrderStatus;
        } *m_txn;

public:
    CTPCC_TUXEDO();
    ~CTPCC_TUXEDO(void);

    inline PNEW_ORDER_DATA
    BuffAddr_NewOrder() { return
&m_txn->u.NewOrder; };
    inline PPAYMENT_DATA
    BuffAddr_Payment() { return
&m_txn->u.Payment; };
    inline PDELIVERY_DATA
    BuffAddr_Delivery() { return
&m_txn->u.Delivery; };

```

```

    inline PSTOCK_LEVEL_DATA
    BuffAddr_StockLevel() { return
&m_txn->u.StockLevel; };
    inline PORDER_STATUS_DATA
    BuffAddr_OrderStatus() { return
&m_txn->u.OrderStatus; };

    void NewOrder      ();
    void Payment       ();
    void Delivery      ();
    void StockLevel    ();
    void OrderStatus   ();
};

class CTUXERR : public CBaseErr
{
private:
    // TODO: should use the sz_Msg
field of the base class instead
    char m_szErrorText[64];

public:
    // use this interface for genuine
Tuxedo errors
    CTUXERR( int iErr )
    {
        m_errno = iErr;
        m_iErrorType = 0;
        m_iError =
        GetLastError(); // only meaningful if m_errno ==
TPEOS
    };

    // use this interface to
impersonate a non-Tuxedo error type
    CTUXERR( int iErrorType, int
iError )
    {
        m_iErrorType =
        m_iError = iError;
        m_errno = 0;
    }

    int      m_errno;
    int      m_iErrorType;
    int      m_iError;

    // A CTUXERR class can
impersonate another
class, which happens if the error
// was not actually a Tuxedo
error, but was simply transmitted back via Tuxedo.
    int ErrorType()
    {
        if (m_iErrorType == 0)
            return
ERR_TYPE_TUXEDO;
        else
            return
m_iErrorType;
    }
};

```

```

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

// wrapper routine for class constructor
extern "C" __declspec(dllexport) CTPCC_TUXEDO*
CTPCC_TUXEDO_new();

typedef CTPCC_TUXEDO* (TYPE_CTPCC_TUXEDO)();

```

tpcc_type.h

```

/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifndef tpcc_types_v1_0_included
#define tpcc_types_v1_0_included
#ifndef IDLBASE_H
#include <dce\idlbase.h>
#endif
#ifndef __cplusplus
extern "C" {
#endif
#ifndef nbase_v0_0_included
#include "dce\nbase.h"
#endif
#define NAME_LENGTH (32)
#define NEWO_INTERFACE (1)
#define PAYMENT_INTERFACE (2)
#define ORDER_STAT_INTERFACE (4)
#define DELIVERY_INTERFACE (8)
#define STOCK_INTERFACE (16)
#define ONLINE_INTERFACES (23)
#define ALL_INTERFACE (65535)
#define NEWO_TRANS (1)
#define PAYMENT_TRANS (2)
#define ORDER_STAT_TRANS (3)
#define DELIVERY_TRANS (4)
#define STOCK_TRANS (5)
#define MAX_TRAN_TYPE (5)
#define TPC_SUCCESS (0)
#define TRPC_ERROR (1)
#define INVALID_NEWO (100)
typedef struct {
    idl_long_int sec;
    idl_long_int usec;
} time_type;
typedef struct {
    idl_short_int returncode;
    idl_short_int stats;
    time_type srv_start;
    time_type srv_end;
    time_type clnt_start;
    time_type clnt_end;
} data_header;
typedef struct {
    idl_long_int first_wh;
    idl_long_int last_wh;

```

```

    idl_long_int server_id;
} dbInfo_data_t;
#endif
#endif

```

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 dllib, 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
{
    /* SQLSMALLINT */ short
    /* SQLSMALLINT */ unsigned short
    /* SQLSMALLINT */ month; unsigned short
    /* SQLSMALLINT */ day; unsigned short
    /* SQLSMALLINT */ hour; unsigned short
    /* SQLSMALLINT */ minute; unsigned short
    /* SQLSMALLINT */ second; unsigned long
    /* SQLINTEGER */ fraction; unsigned long
} TIMESTAMP_STRUCT;
#endif

// possible values for exec_status_code after
transaction completes
enum EXEC_STATUS
{
    eOK, // 0
    "Transaction committed."
    eInvalidItem, // 1 "Item number
is not valid."
    eDeliveryFailed // 2 "Delivery
Post Failed."
};

// transaction structures
typedef struct
{
    // input params
    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];
    char
    c_credit [CREDIT_LEN+1];
    double
    c_discount;
    double
    w_tax;
    double
    d_tax;
    long
    o_id;
    short
    o_commit_flag;
    TIMESTAMP_STRUCT
    o_entry_d;
    short
    o_all_local;
    double
    total_amount;
    OL_NEW_ORDER_DATA
    OL [MAX_OL_NEW_ORDER_ITEMS];
} NEW_ORDER_DATA, *PNEW_ORDER_DATA;

typedef struct
{
    // input params
    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;
} 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;

```

tuxapp.cpp

```

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

```



```

*           All Rights Reserved
*
*           Version
4.10.000 audited by Richard Gimarc, Performance
Metrics, 3/17/99
*
*   PURPOSE: Implementation for TPC-C Tuxedo
server.
*   Contact: Charles Levine
(clevine@microsoft.com)
*
*   Change history:
*           4.20.000 - updated rev number to
match kit
*/

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

#include <sqltypes.h>
#include <sql.h>
#include <sqlx.h>

#include <tmenv.h>
#include <xa.h>
#include <atmi.h>

#include "..\..\common\src\trans.h"
//tpckit transaction header contains
definitions of structures specific to TPC-C
#include "..\..\common\src\error.h"
#include "..\..\common\src\txn_base.h"
#include "..\..\common\src\ReadRegistry.h"
#include "..\..\db_dblib_dll\src\tpcc_dblib.h"
// DBLIB implementation of TPC-C txns
#include "..\..\db_odbc_dll\src\tpcc_odbc.h"
// ODBC implementation of TPC-C txns
#include "tuxapp.h"

char
    szMyComputerName[MAX_COMPUTERNAME_LENGTH+1]
;

// configuration settings from registry
TPCCREGISTRYDATA    Reg;

CTPCC_BASE          *pTxn = NULL;

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

/* FUNCTION: tpsvrinit ( int argc, char *argv[] )

```

```

*
* PURPOSE:      Initialize the Server to Database
connection.
*
* RETURNS:      int      0
                Success
                int      -1
                Failure
*/

int tpsvrinit ( int argc, char *argv[] )
{
    try
    {
        DWORD dwSize =
MAX_COMPUTERNAME_LENGTH+1;
        GetComputerName(szMyComputerName,
&dwSize);
        szMyComputerName[dwSize] = 0;

        if ( ReadTPCCRegistrySettings(
&Reg ) )
            throw new CTUXAPP_ERR(
ERR_MISSING_REGISTRY_ENTRIES );

        GetParameters(argc, argv);

        switch (Reg.eDB_Protocol)
        {
            case ODBC:
                pTxn = new CTPCC_ODBC(
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword,
szMyComputerName, Reg.szDbName );
                break;

            case DBLIB:
                pTxn = new CTPCC_DBLIB(
Reg.szDbServer, Reg.szDbUser, Reg.szDbPassword,
szMyComputerName, Reg.szDbName );
                break;
        }
    }
    catch (CBaseErr *e)
    {
        WriteMessageToEventLog(e-
>ErrorText());
        delete e;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
    }

    return 0;
}

/* FUNCTION: tpsvrdone ( void )
*
*/

void tpsvrdone ( void )
{

```

```

        delete pTxn;
        pTxn = NULL;
    }

/* FUNCTION: BOOL GetParameters(int argc, char
*argv[] )
*
* PURPOSE:      This function parses the command
line passed in to the delivery executable,
initializing
                and filling in global
variable parameters.
*
* ARGUMENTS:    int      argc
                number of command line arguments passed to
delivery
                char
                *argv[] array of command line argument
pointers
*
*/

static void GetParameters(int argc, char *argv[] )
{
    // advance through args until "--" is found
    for(int j=0; j<argc; j++)
    {
        if (strcmp(argv[j],"--") == 0)
            break;
    }

    for(int i=j+1; i<argc; i++)
    {
        if ( argv[i][0] == '-' ||
argv[i][0] == '/' )
        {
            switch(argv[i][1])
            {
                case 'S':
                    strcpy(Reg.szDbServer, argv[i+2]);
                    break;

                case 'D':
                    strcpy(Reg.szDbName, argv[i+2]);
                    break;

                case 'P':
                    strcpy(Reg.szDbPassword, argv[i+2]);
                    break;

                case 'U':
                    strcpy(Reg.szDbUser, argv[i+2]);
                    break;

                default:
                    cout << "Microsoft TPC-C Kit" << endl;
                    cout << "Tuxedo Server" << endl << endl;

```

```

        cout << "Usage:" << endl;

        cout << "    tuxapp [<tuxedo-args>] -- -
S<sql-server> [-D<database>] [-U<user>] [-
P<password>]" << endl << endl;

        cout << "All parameters default to values
in registry." << endl;

        throw new CTUXAPP_ERR( ERR_BAD_SYNTAX );
    }
}

static void WriteMessageToEventLog(LPTSTR lpszMsg)
{
    TCHAR    szMsg[256];
    HANDLE   hEventSource;
    LPTSTR   lpszStrings[2];

    // Use event logging to log the error.
    //
    hEventSource = RegisterEventSource(NULL,
TEXT("TUXAPP.EXE"));

    _stprintf(szMsg, TEXT("Error in TUXAPP.EXE: "));
    lpszStrings[0] = szMsg;
    lpszStrings[1] = lpszMsg;

    if (hEventSource != NULL)
    {
        ReportEvent(hEventSource, // handle of event
source
            EVENTLOG_ERROR_TYPE, // event type
            0, // event category
            0, // event ID
            NULL, // current user's
SID
            2, // strings in
lpszStrings
            0, // no bytes of raw
data
            (LPCTSTR *)lpszStrings, // array of
error strings
            NULL); // no raw data

        (VOID) DeregisterEventSource(hEventSource);
    }
}

void NEWORDER( TPSVCINFO *rqst )
{
    PNEW_ORDER_DATA    pNewOrder;
    TUX_DATA            *pData;
    const int          iSize = sizeof(pData-
>u.NewOrder);

    try
    {
        pData = (TUX_DATA*)rqst->data;
        pData->retval = ERR_SUCCESS;

```

```

        pData->error = 0;

        pNewOrder = pTxn-
>BuffAddr_NewOrder();
        assert( rqst->len ==
sizeof(TUX_DATA) );
        memcpy(pNewOrder, &pData-
>u.NewOrder, iSize );

        pTxn->NewOrder();
        memcpy( &pData->u.NewOrder,
pNewOrder, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
    catch (CBaseErr *e)
    {
        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        memcpy( &pData->u.NewOrder,
pNewOrder, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
        delete e;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        memcpy( &pData->u.NewOrder,
pNewOrder, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
}

void PAYMENT( TPSVCINFO *rqst )
{
    PPAYMENT_DATA    pPayment;
    TUX_DATA          *pData;
    const int          iSize = sizeof(pData-
>u.Payment);

    try
    {
        pData = (TUX_DATA*)rqst->data;
        pData->retval = ERR_SUCCESS;
        pData->error = 0;

        pPayment = pTxn-
>BuffAddr_Payment();
        assert( rqst->len ==
sizeof(TUX_DATA) );
        memcpy(pPayment, &pData-
>u.Payment, iSize );

        pTxn->Payment();
        memcpy( &pData->u.Payment,
pPayment, iSize );

```

```

        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
    catch (CBaseErr *e)
    {
        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        memcpy( &pData->u.Payment,
pPayment, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
        delete e;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        memcpy( &pData->u.Payment,
pPayment, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
}

// Note: Delivery txn code below does not implement
logging of the delivery
// txn results, so cannot be used as is to run
an auditable TPC-C result.
// The code is included for completeness.
void DELIVERY( TPSVCINFO *rqst )
{
    PDELIVERY_DATA    pDelivery;
    TUX_DATA          *pData;
    const int          iSize = sizeof(pData-
>u.Delivery);

    try
    {
        pData = (TUX_DATA*)rqst->data;
        pData->retval = ERR_SUCCESS;
        pData->error = 0;

        pDelivery = pTxn-
>BuffAddr_Delivery();
        assert( rqst->len ==
sizeof(TUX_DATA) );
        memcpy(pDelivery, &pData-
>u.Delivery, iSize );

        pTxn->Delivery();

        memcpy( &pData->u.Delivery,
pDelivery, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
    catch (CBaseErr *e)
    {
        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();

```

```

        memcpy( &pData->u.Delivery,
pDelivery, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
        delete e;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        memcpy( &pData->u.Delivery,
pDelivery, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
}

void STOCKLEVEL( TPSVCINFO *rqst )
{
    PSTOCK_LEVEL_DATA  pStockLevel;
    TUX_DATA            *pData;
    const int           iSize =
sizeof(pData->u.StockLevel);

    try
    {
        pData = (TUX_DATA*)rqst->data;
        pData->retval = ERR_SUCCESS;
        pData->error = 0;

        pStockLevel = pTxn-
>BuffAddr_StockLevel();
        assert( rqst->len ==
sizeof(TUX_DATA) );
        memcpy(pStockLevel, &pData-
>u.StockLevel, iSize );

        pTxn->StockLevel();
        memcpy( &pData->u.StockLevel,
pStockLevel, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
    catch (CBaseErr *e)
    {
        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        memcpy( &pData->u.StockLevel,
pStockLevel, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
        delete e;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
    }
}

```

```

        memcpy( &pData->u.StockLevel,
pStockLevel, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
}

void ORDERSTATUS( TPSVCINFO *rqst )
{
    PORDER_STATUS_DATA  pOrderStatus;
    TUX_DATA            *pData;
    const int           iSize = sizeof(pData-
>u.OrderStatus);

    try
    {
        pData = (TUX_DATA*)rqst->data;
        pData->retval = ERR_SUCCESS;
        pData->error = 0;

        pOrderStatus = pTxn-
>BuffAddr_OrderStatus();
        assert( rqst->len ==
sizeof(TUX_DATA) );
        memcpy(pOrderStatus, &pData-
>u.OrderStatus, iSize );

        pTxn->OrderStatus();
        memcpy( &pData->u.OrderStatus,
pOrderStatus, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
    catch (CBaseErr *e)
    {
        pData->retval = e->ErrorType();
        pData->error = e->ErrorNum();
        memcpy( &pData->u.OrderStatus,
pOrderStatus, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
        delete e;
    }
    catch (...)
    {
        WriteMessageToEventLog(TEXT("Unhandled
exception."));
        pData->retval = ERR_TYPE_LOGIC;
        pData->error = 0;
        memcpy( &pData->u.OrderStatus,
pOrderStatus, iSize );
        tpreturn( TPSUCCESS, 0, rqst-
>data, sizeof(TUX_DATA), 0);
    }
}

/* FUNCTION: CTUXAPP_ERR::ErrorText
 *
 */
char* CTUXAPP_ERR::ErrorText(void)
{

```

```

    int i;

    static SERRORMSG errorMsgs[] =
    {
        { ERR_MISSING_REGISTRY_ENTRIES,
"Required entries missing from registry."
},
        { ERR_BAD_SYNTAX,
"Syntax error in input
parameters."
},
        { ERR_UNKNOWN_DB_PROTOCOL,
"Unknown database protocol specified in
registry."
},
        { 0, ""
}
};

    static char szNotFound[] = "Unknown error
number.";

    for(i=0; errorMsgs[i].szMsg[0]; i++)
    {
        if ( m_Error ==
errorMsgs[i].iError )
            break;
    }
    if ( !errorMsgs[i].szMsg[0] )
        return szNotFound;
    else
        return errorMsgs[i].szMsg;
}

```

tuxapp.dsp

```

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

# TARGETTYPE "Win32 (x86) Console Application" 0x0103

CFG=tuxapp - 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 "tuxapp.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 "tuxapp.mak" CFG="tuxapp - Win32
Debug"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "tuxapp - Win32 Release" (based on "Win32
(x86) Console Application")
!MESSAGE "tuxapp - Win32 Debug" (based on "Win32
(x86) Console Application")
!MESSAGE

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

!IF "$(CFG)" == "tuxapp - 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 /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_CONSOLE" /D "_MBCS" /YX /FD /c
# ADD CPP /nologo /MD /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "_CONSOLE" /D "_MBCS" /YX /FD /c
# 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
odbccp32.lib /nologo /subsystem:console /machine:I386
# ADD LINK32 ..\db_dblib_dll\bin\tpcc_dblib.lib
..\db_odbc_dll\bin\tpcc_odbc.lib libtux.lib
libbuft.lib libtux2.lib libfml.lib libfml32.lib
libgp.lib kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib /nologo /subsystem:console /machine:I386

!ELSEIF "$(CFG)" == "tuxapp - 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 /W3 /Gm /GX /ZI /Od /D "WIN32"
/D "_DEBUG" /D "_CONSOLE" /D "_MBCS" /YX /FD /c
# ADD CPP /nologo /MDd /W3 /Gm /GX /ZI /Od /D "WIN32"
/D "_DEBUG" /D "_CONSOLE" /D "_MBCS" /YX /FD /c
# ADD BASE RSC /1 0x409 /d "_DEBUG"
# ADD RSC /1 0x409 /d "_DEBUG"
BSC32=bscmake.exe
# ADD BASE BSC32 /nologo
# ADD BSC32 /nologo
LINK32=link.exe
# ADD BASE LINK32 kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib /nologo /subsystem:console /debug
/machine:I386 /pdbtype:sept
# ADD LINK32 ..\db_dblib_dll\bin\tpcc_dblib.lib
..\db_odbc_dll\bin\tpcc_odbc.lib libtux.lib
libbuft.lib libtux2.lib libfml.lib libfml32.lib
libgp.lib kernel32.lib user32.lib gdi32.lib
winspool.lib comdlg32.lib advapi32.lib shell32.lib
ole32.lib oleaut32.lib uuid.lib odbc32.lib
odbccp32.lib /nologo /subsystem:console /debug
/machine:I386 /pdbtype:sept

!ENDIF

# Begin Target

# Name "tuxapp - Win32 Release"
# Name "tuxapp - Win32 Debug"
# Begin Group "Source"

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

SOURCE=.\src\tuxapp.cpp

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

# ADD CPP /MD

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

# ADD CPP /MDd

!ENDIF

# End Source File
# Begin Source File

SOURCE=.\src\tuxmain.c

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

# ADD CPP /MD

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

# ADD CPP /MDd

```

```

!ENDIF

# End Source File
# End Group
# Begin Group "Header"

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

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

```

tuxapp.h

```

/* FILE: TUXAPP.H Microsoft
 *
 * TPC-C Kit Ver. 4.20.000 Copyright
 *
 * Microsoft, 1999 All Rights Reserved
 *
 * Version
 * 4.10.000 audited by Richard Gimarc, Performance
 * Metrics, 3/17/99
 *
 * PURPOSE: Header file for TPC-C Tuxedo
 * server.
 *
 * Change history:
 * 4.20.000 - updated rev number to
 * match kit
 */

enum TUXERROR
{
    ERR_MISSING_REGISTRY_ENTRIES = 1,
    ERR_BAD_SYNTAX,
    ERR_UNKNOWN_DB_PROTOCOL
};

class CTUXAPP_ERR : public CBaseErr
{
public:
    TUXERROR m_Error;

    CTUXAPP_ERR(TUXERROR Err) {
        m_Error = Err; };
    ~CTUXAPP_ERR() {};

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

struct TUX_DATA
{

```

```

int
retval;
int
error;

union
{
    NEW_ORDER_DATA
NewOrder;
    PAYMENT_DATA
Payment;
    DELIVERY_DATA
Delivery;
    STOCK_LEVEL_DATA    StockLevel;
    ORDER_STATUS_DATA   OrderStatus;
} u;
};

static void GetParameters(int argc, char *argv[]);
static void WriteMessageToEventLog(LPTSTR lpszMsg);

#if defined(__cplusplus)
extern "C" {
#endif

void NEWORDER( TPSVCINFO *rqst );
void PAYMENT( TPSVCINFO *rqst );
void DELIVERY( TPSVCINFO *rqst );
void STOCKLEVEL( TPSVCINFO *rqst );
void ORDERSTATUS( TPSVCINFO *rqst );

#if defined(__cplusplus)
}
#endif

```

tuxmain.c

```

/*      FILE:                TUXMAIN.C
 *
 *      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:  Implementation for TPC-C Tuxedo
 *      server.
 *      Contact:  Charles Levine
 *      (clevine@microsoft.com)
 *
 *      Change history:
 *      4.20.000 - updated rev number to
 *      match kit
 */

```

```

#include <stdio.h>
#include <xa.h>
#include <atmi.h>

#if defined(__cplusplus)
extern "C" {
#endif
extern int tmrunserver_((int));
extern void DELIVERY_((TPSVCINFO *));
extern void NEWORDER_((TPSVCINFO *));
extern void ORDERSTATUS_((TPSVCINFO *));
extern void PAYMENT_((TPSVCINFO *));
extern void STOCKLEVEL_((TPSVCINFO *));
#if defined(__cplusplus)
}
#endif

static struct tmdsptchtbl_t tmdsptchtbl[] = {
    { "DELIVERY", "DELIVERY", (void (*)
_((TPSVCINFO *)) DELIVERY, 0, 0 },
    { "NEWORDER", "NEWORDER", (void (*)
_((TPSVCINFO *)) NEWORDER, 1, 0 },
    { "ORDERSTATUS", "ORDERSTATUS", (void (*)
_((TPSVCINFO *)) ORDERSTATUS, 2, 0 },
    { "PAYMENT", "PAYMENT", (void (*)
_((TPSVCINFO *)) PAYMENT, 3, 0 },
    { "STOCKLEVEL", "STOCKLEVEL", (void (*)
_((TPSVCINFO *)) STOCKLEVEL, 4, 0 },
    { NULL, NULL, NULL, 0, 0 }
};

#ifdef _TMDLLIMPORT
#define _TMDLLIMPORT
#endif

_TMDLLIMPORT extern struct xa_switch_t tmnull_switch;

struct tmsvrargs_t tmsvrargs = {
    NULL,
    &tmdsptchtbl[0],
    0,
    tpsvrinit,
    tpsvrdone,
    tmrunserver, /* PRIVATE */
    NULL, /* RESERVED */
    NULL, /* RESERVED */
    NULL, /* RESERVED */
    NULL /* RESERVED */
};

struct tmsvrargs_t *
#ifdef _TMPROTOTYPES
tmgetsvrargs(void)
#else
tmgetsvrargs()
#endif
{
    tmsvrargs.xa_switch = &tmnull_switch;
    return(&tmsvrargs);
}

```

```

}

int
#ifdef _TMPROTOTYPES
main(int argc, char **argv)
#else
main(argc,argv)
int argc;
char **argv;
#endif
{
#ifdef TMAINEXIT
#include "mainexit.h"
#endif

return( tmstartserver( argc, argv,
tmgetsvrargs()));
}

```

txnlog.h

```

/*      FILE:                TXNLOG.H
 *
 *      TPC-C Kit Ver. 4.10.000      Microsoft
 *                                  not yet
 *      audited
 *
 *      PURPOSE:  Header file for txn log class
 *                                  Copyright
 *      Microsoft, 1999
 *      All Rights Reserved
 *
 */

#pragma once

typedef struct _TXN_NEWORDER
{
    BYTE    OL_Count;           //range 0 to
31
    BYTE    OL_Remote_Count;   //range 0 to
31
    WORD    c_id;
    int     o_id;
} TXN_NEWORDER;

typedef struct _TXN_PAYMENT
{
    BYTE    CustByName;
    BYTE    IsRemote;
} TXN_PAYMENT;

typedef struct _TXN_ORDERSTATUS
{
    BYTE    CustByName;
} TXN_ORDERSTATUS;

typedef union _TXN_DETAILS
{

```

```

        TXN_NEWORDER      NewOrder;
        TXN_PAYMENT
Payment;
        TXN_ORDERSTATUS  OrderStatus;
    } TXN_DETAILS;

    // Common header for all records in txn
log. The TxnType field is
    // a switch which identifies the particular
variant.
    #define TXN_REC_TYPE_CONTROL      1
    //
    #define TXN_REC_TYPE_TPCC
    2 // replaces TRANSACTION_TYPE_TPCC
    #define TXN_REC_TYPE_TPCC_DELIV_DEF 3

    typedef struct _TXN_RECORD_HEADER
    {
        JULIAN_TIME      TxnStartT0;
        // start of txn
        BYTE      TxnType;
        // one of TXN_REC_TYPE_*
        BYTE      TxnSubType;
        // depends on TxnType
    } TXN_RECORD_HEADER, *PTXN_RECORD_HEADER;

    typedef struct _TXN_RECORD_CONTROL
    {
        // common header; must exactly
match TXN_RECORD_HEADER
        JULIAN_TIME      TxnStartT0;
        // start of txn
        BYTE      TxnType;
        // = TXN_REC_TYPE_CONTROL
        BYTE      TxnSubType;
        // depends on TxnType
        // end of common header

        DWORD      Len;
        // number of bytes after this
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; //
        int      DeltaT2; //
        int      DeltaT3; //
        int      DeltaT4; //
        int      RTDelay; //
        int      TxnError; //
        int      TxnStatus // 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.
//
//
//
        TS;          JULIAN_TIME // timestamp
of record
//
//
        int
position in file
//
//
        RecMap[RecMapSize];
// #define
        RecMapSize
        200
    } TXN_LOG_HEADER, *PTXN_LOG_HEADER;

/* Header of the sorted pointers blocks in
Temp file (in merging). */
typedef struct BLOCK_HEADER {
    long    BlockPos;
    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
//
//
    int
iFilePointer;
//position in file.
    LARGE_INTEGER    lFilePointer;
//position in file.
    int
iNextRec;
//when reading, ordinal value of next
record

        // A "save point" is remembered
each time GetNextRecord is called with a start time
specified.
        // The next time it is called, if
start time is after the save point, we start scanning
from the
        // save point. This is
particularly useful in FindBestInterval, where the
log is scanned repeatedly.
        JULIAN_TIME
SavePtTime;
    int
iSavePtFilePointer;
    LARGE_INTEGER
lSavePtFilePointer;
    int
iSavePtNextRec;

        JULIAN_TIME    lastTS;
//when
writing sorted output, used to verify records are
sorted
    BOOL    bWrite;
//writing log
file
    BOOL    bCrashOpen;
// tolerate
bad headers and consistency checks

    BOOL
bLogSorted;
//
is log file sorted? applies to both input and output

```

```

        JULIAN_TIME
BeginTxnTS;          //
timestamp of first (lowest) txn start
        JULIAN_TIME
EndTxnTS;          // timestamp
of last (highest) txn completion time
        int
iRecCount;          //
number of records in log file
        BYTE
current buffer
//ptr to
        BYTE
*pBuffer[MAX_NUM_BUFFERS];

        PTXN_RECORD_HEADER *TxnArray;
//transaction record pointer
array for sort
        DWORD    dwError;
HANDLE    hTxnFile;
//handle to log file
        HANDLE    hMapFile;
//map file used when
sorting the log
        HANDLE    hIoComplete;
//event to signify that
there are no pending IOs
        HANDLE    hLogFileIo;
//event to
signal the IO thread to write the inactive buffer

        Spinlock    Spin;
//spin lock to protect
the txn log file buffers
        FILE
*tmpFile;
//temp file for merging
sorted pieces
        PBLOCK_HEADER
tmpHeaders;
//sorted
pointers block header
        BYTE
**recPointers;
//record pointer
buffers for each sorted block
        PTXN_RECORD_HEADER *recBuffers;
//record buffers for each sorted block
        int
*PointersRead;
//# of pointers processed in each block
        BOOL    *BlockAvailable;
//whether to check a particular
block for jmin
        int
int
nBlocks;
jmin;

//index (block-wise) of the lowest
timestamp record
        int
iAvgRecordLen;
//average record length

```

```

        int
        iSortedReturnedCount;
        //keeps track of the # of sorted records
        returned through GetSortedRecord()

        int Write(BYTE *ptr, DWORD Size);
        static void LogFileIO(CTxnLog *);

        void LoadBuffers(int j);
        //used in sort/merge to load
        record buffers

        public:
                CTxnLog::CTxnLog(LPCTSTR
                szFileName, DWORD dwOpts);
                ~CTxnLog(void);

                int WriteToLog(PTXN_RECORD_TPCC
                pTxnRcrd);
                WriteToLog(PTXN_RECORD_TPCC_DELIV_DEF pTxnRcrd);
                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] != 0; i++)
                        {
                                if ( m_idMsg
                == i )
                                break;
                        }

                        return(szMsgs[i][0] ?
                szMsgs[i] : ERR_UNKNOWN);
                };

```

txn_base.h

```

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

```

```

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

#pragma once

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

class DllDecl CTPCC_BASE
{
        public:
                CTPCC_BASE(void) {};
                virtual ~CTPCC_BASE(void) {};

                virtual PNEW_ORDER_DATA
                BuffAddr_NewOrder() = 0;
                virtual PPAYMENT_DATA
                BuffAddr_Payment() = 0;
                virtual PDELIVERY_DATA
                BuffAddr_Delivery() = 0;
                virtual PSTOCK_LEVEL_DATA
                BuffAddr_StockLevel() = 0;
                virtual PORDER_STATUS_DATA
                BuffAddr_OrderStatus() = 0;

                virtual void NewOrder
                () = 0;
                virtual void Payment
                () = 0;
                virtual void Delivery
                () = 0;
                virtual void StockLevel
                () = 0;
                virtual void OrderStatus
                () = 0;
};

```

WEBCLNT.DSP

```

# Microsoft Developer Studio Project File -
Name="webclnt" - Package Owner=<4>
# Microsoft Developer Studio Generated Build File,
Format Version 5.00
# ** DO NOT EDIT **

# TARGETTYPE "Win32 (x86) Application" 0x0101

```



```

CFG=webclnt - Win32 Release
!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 "Webclnt.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 "Webclnt.mak" CFG="webclnt - Win32
Release"
!MESSAGE
!MESSAGE Possible choices for configuration are:
!MESSAGE
!MESSAGE "webclnt - Win32 Release" (based on "Win32
(x86) Application")
!MESSAGE "webclnt - Win32 Debug" (based on "Win32
(x86) Application")
!MESSAGE

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

!IF "$(CFG)" == "webclnt - 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 ".\Release"
# PROP Intermediate_Dir ".\Release"
# PROP Target_Dir ""
# ADD BASE CPP /nologo /W3 /GX /O2 /D "WIN32" /D
"NDEBUG" /D "WINDOWS" /YX /c
# ADD CPP /nologo /W3 /GX /O2 /D "WIN32" /D "NDEBUG"
/D "WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "NDEBUG" /win32
# ADD MTL /nologo /D "NDEBUG" /mktypelib203 /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 /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 /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 /machine:I386

```

```

!ELSEIF "$(CFG)" == "webclnt - 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 ".\Debug"
# PROP Intermediate_Dir ".\Debug"
# PROP Target_Dir ""
# ADD BASE CPP /nologo /W3 /Gm /GX /Zi /Od /D "WIN32"
/D "_DEBUG" /D "WINDOWS" /YX /c
# ADD CPP /nologo /W3 /Gm /GX /Zi /Od /D "WIN32" /D
"_DEBUG" /D "WINDOWS" /YX /FD /c
# ADD BASE MTL /nologo /D "_DEBUG" /win32
# ADD MTL /nologo /D "_DEBUG" /mktypelib203 /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 /debug
/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 /debug
/machine:I386

!ENDIF

# Begin Target

# Name "webclnt - Win32 Release"
# Name "webclnt - Win32 Debug"
# End Target
# End Project

```

Webclnt.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\tppcc_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\tppcc_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>
{{{
}}}

#####
#####

```

delivery.h

```

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

#ifdef __cplusplus
extern "C" {
#endif

#ifndef nbase_v0_0_included
#include "dce\nbase.h"
#endif
#ifndef trpcImports_v0_0_included
#include "trpc\trpcImports.h"
#endif
#ifndef mon_handle_v1_0_included
#include "tpm\mon\mon_handle.h"
#endif
#ifndef tpcc_types_v1_0_included
#include "tpcc_type.h"
#endif
#include <dce\rpcexc.h>
extern EXCEPTION encina_x_transaction_aborted;
extern EXCEPTION encina_x_server_shutdown;
extern EXCEPTION encina_x_permission_denied;
extern EXCEPTION encina_x_object_not_found;
extern EXCEPTION encina_x_empty_slot1;
extern EXCEPTION encina_x_empty_slot2;
extern EXCEPTION encina_x_empty_slot3;
extern EXCEPTION encina_x_empty_slot4;
extern EXCEPTION encina_x_empty_slot5;
extern EXCEPTION encina_x_undefined_exception;
extern void IDL_STD_STDCALL_delivery_GetApplId(
#ifdef IDL_PROTOTYPES
  /* [in] */ handle_t handle,

```

```

/* [out] */ trpc_byteData_t applString,
/* [out] */ idl_ulong_int *applStringLength,
/* [out] */ trpc_byteData_t address,
/* [out] */ idl_ulong_int *addressLength,
/* [out] */ error_status_t *c_status,
/* [out] */ error_status_t *f_status
#endif
);
extern void IDL_STD_STDCALL _impTPCCDelivery(
#ifdef IDL_PROTOTYPES
/* [in] */ handle_t trpc_h,
/* [in] */ idl_long_int length,
/* [in, out] */ idl_char *dataP,
/* [in, out] */ data_header *headerP,
/* [in] */ trpc_byteData_t applAndAddress,
/* [in] */ idl_ulong_int applAndAddressLength,
/* [in] */ trpc_callbackData_t inCallbackData,
/* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
globalref mon_handle_t handle;
#if defined(_VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __save
#pragma extern_model __common_block __shr
#endif
typedef struct delivery_v1_0_epv_t {
void ( IDL_STD_STDCALL *_delivery_GetApplId)(
#ifdef IDL_PROTOTYPES
/* [in] */ handle_t handle,
/* [out] */ trpc_byteData_t applString,
/* [out] */ idl_ulong_int *applStringLength,
/* [out] */ trpc_byteData_t address,
/* [out] */ idl_ulong_int *addressLength,
/* [out] */ error_status_t *c_status,
/* [out] */ error_status_t *f_status
#endif
);
void ( IDL_STD_STDCALL *_impTPCCDelivery)(
#ifdef IDL_PROTOTYPES
/* [in] */ handle_t trpc_h,
/* [in] */ idl_long_int length,
/* [in, out] */ idl_char *dataP,
/* [in, out] */ data_header *headerP,
/* [in] */ trpc_byteData_t applAndAddress,
/* [in] */ idl_ulong_int applAndAddressLength,
/* [in] */ trpc_callbackData_t inCallbackData,
/* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
} _delivery_v1_0_epv_t;
extern rpc_if_handle_t _delivery_v1_0_c_ifspec;
extern rpc_if_handle_t _delivery_v1_0_s_ifspec;
#if defined(_VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __restore
#endif

#ifdef __cplusplus
}
#else
#endif

```

```

#endif



---



## neworder.h



---


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

#ifdef __cplusplus
extern "C" {
#endif

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

```

```

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

#ifdef __cplusplus

```

```

}
#else
#endif
#endif

```

orderstatus.h

```

/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifndef orderstatus_v1_0_included
#define orderstatus_v1_0_included
#ifndef IDLBASE_H
#include <dce\idlbase.h>
#endif
#include <dce\rpc.h>
#include "trpc/trpc.h"

#ifdef __cplusplus
extern "C" {
#endif

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

```

```

/* [in, out] */ idl_char *dataP,
/* [in, out] */ data_header *headerP,
/* [in] */ trpc_byteData_t applAndAddress,
/* [in] */ idl_ulong_int applAndAddressLength,
/* [in] */ trpc_callbackData_t inCallbackData,
/* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
globalref mon_handle_t handle;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __save
#pragma extern_model __common_block __shr
#endif
typedef struct _orderstatus_v1_0_epv_t {
void ( IDL_STD_STDCALL * _orderstatus_GetAppId)(
#ifdef IDL_PROTOTYPES
/* [in] */ handle_t handle,
/* [out] */ trpc_byteData_t applString,
/* [out] */ idl_ulong_int *applStringLength,
/* [out] */ trpc_byteData_t address,
/* [out] */ idl_ulong_int *addressLength,
/* [out] */ error_status_t *c_status,
/* [out] */ error_status_t *f_status
#endif
);
void ( IDL_STD_STDCALL * _impTPCCOrderStatus)(
#ifdef IDL_PROTOTYPES
/* [in] */ handle_t trpc_h,
/* [in] */ idl_long_int length,
/* [in, out] */ idl_char *dataP,
/* [in, out] */ data_header *headerP,
/* [in] */ trpc_byteData_t applAndAddress,
/* [in] */ idl_ulong_int applAndAddressLength,
/* [in] */ trpc_callbackData_t inCallbackData,
/* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
} _orderstatus_v1_0_epv_t;
extern rpc_if_handle_t _orderstatus_v1_0_c_ifspec;
extern rpc_if_handle_t _orderstatus_v1_0_s_ifspec;
#if defined(__VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __restore
#endif

#ifdef __cplusplus
}
#endif
#else
#endif
#endif

```

payment.h

```

/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifndef payment_v1_0_included
#define payment_v1_0_included
#ifndef IDLBASE_H

```

```

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

#ifdef __cplusplus
extern "C" {
#endif

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

```

```

#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t handle,
    /* [out] */ trpc_byteData_t applString,
    /* [out] */ idl_ulong_int *applStringLength,
    /* [out] */ trpc_byteData_t address,
    /* [out] */ idl_ulong_int *addressLength,
    /* [out] */ error_status_t *c_status,
    /* [out] */ error_status_t *f_status
#endif
);
void ( IDL_STD_STDCALL *_impTPCCPayment)(
#ifdef IDL_PROTOTYPES
    /* [in] */ handle_t trpc_h,
    /* [in] */ idl_long_int length,
    /* [in, out] */ idl_char *dataP,
    /* [in, out] */ data_header *headerP,
    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
    } _payment_v1_0_epv_t;
extern rpc_if_handle_t _payment_v1_0_c_ifspec;
extern rpc_if_handle_t _payment_v1_0_s_ifspec;
#if defined(_VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __restore
#endif

#ifdef __cplusplus
}

#else
#endif
#endif


```

stocklevel.h

```

/* Generated by IDL compiler version DEC DCE V2.0.0-6
*/
#ifdef stocklevel_v1_0_included
#define stocklevel_v1_0_included
#endif
#define IDLBASE_H
#include <dce\idlbase.h>
#endif
#include <dce\rpc.h>
#include "trpc/trpc.h"

#ifdef __cplusplus
extern "C" {
#endif

#ifdef nbase_v0_0_included
#include "dce\nbase.h"
#endif
#include trpcImports_v0_0_included
#include "trpc\trpcImports.h"
#endif
#include mon_handle_v1_0_included

```

```

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

```

```

    /* [in] */ trpc_byteData_t applAndAddress,
    /* [in] */ idl_ulong_int applAndAddressLength,
    /* [in] */ trpc_callbackData_t inCallbackData,
    /* [in] */ idl_ulong_int numOfInCallbackData
#endif
);
    } _stocklevel_v1_0_epv_t;
extern rpc_if_handle_t _stocklevel_v1_0_c_ifspec;
extern rpc_if_handle_t _stocklevel_v1_0_s_ifspec;
#if defined(_VMS) && (defined(__DECC) ||
defined(__cplusplus))
#pragma extern_model __restore
#endif

#ifdef __cplusplus
}

#else
#endif
#endif

```

Appendix B: Database Design

The TPC-C database was created with the following Transact-SQL scripts:

backup.sql

```
-- File:      BACKUP.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates backup of tpcc database
```

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

```
dump database tpcc to tpccback1, tpccback2,
tpccback3, tpccback4 with init, stats = 1
```

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

```
go
```

backupdev.sql

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

```
use master
go
```

```
-- create backup devices
```

```
exec sp_addumpdevice
'disk','tpccback1','W:\tpccback1.dmp'
go
exec sp_addumpdevice
'disk','tpccback2','X:\tpccback2.dmp'
```

```
go
exec sp_addumpdevice
'disk','tpccback3','Y:\tpccback3.dmp'
go
exec sp_addumpdevice
'disk','tpccback4','Z:\tpccback4.dmp'
go
```

config.sql

```
-- File:      CONFIG.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.00
--           Copyright Microsoft, 1996
-- Purpose:   Collects SQL Server configuration
```

```
parameters
-- exec sp_configure "max server memory",
2147483647
-- exec sp_configure "max server memory",
63800
-- exec sp_configure "affinity mask",
65535
```

```
-- exec sp_configure "recovery interval",
140
-- exec sp_configure "recovery interval",
230
-- exec sp_configure "recovery interval",
360
-- exec sp_configure "max worker threads",
320
```

```
-- exec sp_configure "max worker threads",
380
-- exec sp_configure "max worker threads",
340
-- exec sp_configure "max worker threads",
450
-- exec sp_configure "recovery interval",
450
```

```
-- exec sp_configure "recovery interval",
480
```

```
print " "
select convert(char(30), getdate(),9)
print " "
go
```

```
sp_configure "show advanced",1
go
reconfigure with override
go
exec sp_configure "affinity mask",          15
exec sp_configure "cost threshold for parallelism",
5
```

```
exec sp_configure "index create memory",    0
exec sp_configure "lightweight pooling",    1
exec sp_configure "awe enabled",           1
exec sp_configure "locks",                 0
exec sp_configure "max degree of parallelism", 0
exec sp_configure "max server memory",
2147483647
exec sp_configure "max worker threads",     344
```

```
exec sp_configure "min memory per query",   1024
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
```

createdb.sql

```
-- File:      CREATEDB.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates tpcc database and backup files
for 9672 warehouses
```

```
use master
go
```

```
-- Create temporary table for timing
```

```
if exists ( select name from sysobjects where name =
'tpcc_timer' )
drop table tpcc_timer
go
```

```
create table tpcc_timer
(
start_date
char(30),
end_date
char(30)
)
```

```
insert into tpcc_timer values (0,0)
go
```

```
-- Store starting time
```

```
update tpcc_timer
set start_date = (select
convert(char(30), getdate(),9))
go
```

```
-- create main database files
```

```
CREATE DATABASE tpcc
ON PRIMARY
```

```

(
    NAME                = MSSQL_tpcc_root,
    FILENAME             = "C:\MSSQL_tpcc_root.mdf",
    SIZE                 = 8MB,
    FILEGROWTH           = 0),
FILEGROUP MSSQL_cs_fg
(
    NAME                = MSSQL_cs1,
    FILENAME             = "N:",
    SIZE                 = 92000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_cs2,
    FILENAME             = "O:",
    SIZE                 = 92000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_cs3,
    FILENAME             = "P:",
    SIZE                 = 92000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_cs4,
    FILENAME             = "Q:",
    SIZE                 = 92000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_cs5,
    FILENAME             = "R:",
    SIZE                 = 92000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_cs6,
    FILENAME             = "S:",
    SIZE                 = 92000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_cs7,
    FILENAME             = "T:",
    SIZE                 = 92000MB,
    FILEGROWTH           = 0),
FILEGROUP MSSQL_misc_fg
(
    NAME                = MSSQL_misc1,
    FILENAME             = "G:",
    SIZE                 = 40000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_misc2,
    FILENAME             = "H:",
    SIZE                 = 40000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_misc3,
    FILENAME             = "I:",
    SIZE                 = 40000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_misc4,
    FILENAME             = "J:",
    SIZE                 = 40000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_misc5,
    FILENAME             = "K:",
    SIZE                 = 40000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_misc6,
    FILENAME             = "L:",
    SIZE                 = 40000MB,
    FILEGROWTH           = 0),
(
    NAME                = MSSQL_misc7,
    FILENAME             = "M:",
    SIZE                 = 40000MB,

```

```

    FILEGROWTH           = 0)
LOG ON
(
    NAME                =MSSQL_tpcc_log,
    FILENAME             = "F:",
    SIZE                 =270000MB,
    FILEGROWTH           =0)

-- Store ending time
update tpcc_timer
set end_date = (select convert(char(30),
getdate(),9))
go

select "Elapsed time (in seconds): ",
datediff(second,(select start_date from
tpcc_timer),(select end_date from tpcc_timer))

-- remove temporary table

if exists ( select name from sysobjects where name =
'tpcc_timer' )
drop table tpcc_timer
go

```

dbopt1.sql

```

-- File:      DBOPT1.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           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
exec sp_dboption tpcc,'torn page',false
go

use tpcc
go

checkpoint
go

```

dbopt2.sql

```

-- File:      DBOPT2.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Resets database options after data load

```

```

sp_dboption tpcc,'select into/bulkcopy',FALSE
GO

sp_dboption tpcc,'trunc. log on chkpt.',FALSE
GO

sp_dboption tpcc,'torn page',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 (@@rowcount < 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
where no_w_id = @w_id and
no_d_id = @d_id
order by no_o_id asc

updlock)

if (@@rowcount <> 0)
begin
-- claim the order for this district
delete new_order
where no_w_id =
@w_id and
no_d_id =
@d_id and
no_o_id =
@o_id

-- set carrier_id on this order (and get customer
id)
update orders
set o_carrier_id
= @o_carrier_id,

```

```

@c_id
= o_c_id
where o_w_id
= @w_id and
o_d_id
= @d_id and
o_id
= @o_id

-- set date in all lineitems for this order (and sum
amounts)
update order_line
set ol_delivery_d
= getdate(),
@total
= @total + ol_amount
where ol_w_id
= @w_id and
ol_d_id
= @d_id and
ol_o_id
= @o_id

-- accumulate lineitem amounts for this order into
customer
update customer
set c_balance =
c_balance + @total,
c_delivery_cnt = c_delivery_cnt + 1
where c_w_id
= @w_id and
c_d_id
= @d_id and
c_id
= @c_id
end

select @oid1 = case @d_id when 1 then
@o_id else @oid1 end,
@oid2 = case @d_id when 2 then @o_id
else @oid2 end,
@oid3 = case @d_id when 3 then @o_id
else @oid3 end,
@oid4 = case @d_id when 4 then @o_id
else @oid4 end,
@oid5 = case @d_id when 5 then @o_id
else @oid5 end,
@oid6 = case @d_id when 6 then @o_id
else @oid6 end,
@oid7 = case @d_id when 7 then @o_id
else @oid7 end,
@oid8 = case @d_id when 8 then @o_id
else @oid8 end,
@oid9 = case @d_id when 9 then @o_id
else @oid9 end,
@oid10 = case @d_id when 10 then @o_id
else @oid10 end

```



```

end
commit tran d
-- return delivery data to client

select @oid1,
       @oid2,
       @oid3,
       @oid4,
       @oid5,
       @oid6,
       @oid7,
       @oid8,
       @oid9,
       @oid10

go

```

getargs.c

```

// File: GETARGS.C
// Microsoft
TPC-C Kit Ver. 4.22
// Copyright
Microsoft, 1996, 1997, 1998, 1999, 2000, 2001
// Purpose: Source file for command line
processing

// Includes
#include "tpcc.h"

//=====
//
// Function name: GetArgsLoader
//
//=====
void GetArgsLoader(int argc, char **argv,
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] != '/')
        {
            if (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
                    = ptr+2;
                    break;

```

```

                case 'U':
                    pargs->user =
                    ptr+2;
                    break;

                case 'b':
                    pargs->batch
                    = atol(ptr+2);
                    break;

                case 'W':
                    pargs->
                    >num_warehouses = atol(ptr+2);
                    break;

                case 's':
                    pargs->
                    >starting_warehouse = atol(ptr+2);
                    break;

                case 't':
                    {
                        pargs->tables_all = FALSE;
                        if
                        (strcmp(ptr+2,"item") == 0)
                            pargs->table_item = TRUE;
                        else if (strcmp(ptr+2,"warehouse") == 0)
                            pargs->table_warehouse = TRUE;
                        else if (strcmp(ptr+2,"customer") == 0)
                            pargs->table_customer = TRUE;
                        else if (strcmp(ptr+2,"orders") == 0)
                            pargs->table_orders = TRUE;
                        else
                            {
                                printf("\nUnrecognized command");
                                GetArgsLoaderUsage();
                                exit(1);
                            }
                    }

                case 'f':
                    pargs->
                    >loader_res_file = ptr+2;
                    break;

                case 'p':

```

```

                                pargs-
>pack_size = atol(ptr+2);
                                break;
                                case 'i':
                                pargs-
>build_index = atol(ptr+2);
                                break;
                                case 'o':
                                pargs-
>index_order = atol(ptr+2);
                                break;
                                case 'c':
                                pargs-
>scale_down = atol(ptr+2);
                                break;
                                case 'd':
                                pargs-
>index_script_path = ptr+2;
                                break;
                                default:
                                GetArgsLoaderUsage();
                                exit(-1);
                                break;
                                }
                                }
                                /* check for required args */
                                if (pargs->num_warehouses == UNDEF)
                                {
                                printf("Number of Warehouses is
required\n");
                                exit(-2);
                                }
                                return;
                                }

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

    printf("TPCCLDR:\n\n");
    printf("Parameter
Default\n");

```

```

                                printf("-----
-----\n");
                                printf("-W Number of Warehouses to Load
Required \n");
                                printf("-S Server
%s\n", SERVER);
                                printf("-U Username
%s\n", USER);
                                printf("-P Password
%s\n", PASSWORD);
                                printf("-D Database
%s\n", DATABASE);
                                printf("-b Batch Size
%ld\n", (long) BATCH);
                                printf("-p TDS packet size
%ld\n", (long) DEFLDPACKSIZE);
                                printf("-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_c1' )
    drop index order_line.order_line_c1
```

```
create unique clustered index order_line_c1 on
order_line(ol_w_id, ol_d_id, ol_o_id, ol_number)
    on MSSQL_misc_fg
```

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

```
go
```

idxordcl.sql

```
-- File:      IDXORDCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates clustered index on orders table
```

```
use tpcc
go
```

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

```
if exists ( select name from sysindexes where name =
'orders_c1' )
    drop index orders.orders_c1
```

```
create unique clustered index orders_c1 on
orders(o_w_id, o_d_id, o_id)
    on MSSQL_misc_fg
```

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

```
go
```

idxordnc.sql

```
-- File:      IDXORDNC.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
```

```
-- Purpose: Creates non-clustered index on orders
table

use tpcc
go

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

if exists ( select name from sysindexes where name =
'orders_nc1' )
drop index orders.orders_nc1

create index orders_nc1 on orders(o_w_id, o_d_id,
o_c_id, o_id)
on MSSQL_misc_fg

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

go
```

idxstkcl.sql

```
-- File: IDXSTKCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.22
-- Copyright Microsoft, 2001
-- Purpose: Creates clustered index on stock table

use tpcc
go

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

if exists ( select name from sysindexes where name =
'stock_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_c1' )
drop index warehouse.warehouse_c1

create unique clustered index warehouse_c1 on
warehouse(w_id)
with fillfactor=100 on MSSQL_misc_fg

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

go
```

neword.sql

```
-- File: NEWORD.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.22
-- Copyright Microsoft, 2001
-- Purpose: Creates new order transaction stored
procedure
--
-- Interface Level: 4.10.000

use tpcc
go

if exists ( select name from sysobjects where name =
'tpcc_neworder' )
drop procedure tpcc_neworder

go

create proc tpcc_neworder

@w_id smallint,

@d_id tinyint,
```

```
@c_id int,

@o_ol_cnt tinyint,

@o_all_local tinyint,

@i_id1 int = 0, @s_w_id1 smallint = 0,
@ol_qty1 smallint = 0,

@i_id2 int = 0, @s_w_id2 smallint = 0,
@ol_qty2 smallint = 0,

@i_id3 int = 0, @s_w_id3 smallint = 0,
@ol_qty3 smallint = 0,

@i_id4 int = 0, @s_w_id4 smallint = 0,
@ol_qty4 smallint = 0,

@i_id5 int = 0, @s_w_id5 smallint = 0,
@ol_qty5 smallint = 0,

@i_id6 int = 0, @s_w_id6 smallint = 0,
@ol_qty6 smallint = 0,

@i_id7 int = 0, @s_w_id7 smallint = 0,
@ol_qty7 smallint = 0,

@i_id8 int = 0, @s_w_id8 smallint = 0,
@ol_qty8 smallint = 0,

@i_id9 int = 0, @s_w_id9 smallint = 0,
@ol_qty9 smallint = 0,

@i_id10 int = 0, @s_w_id10 smallint = 0,
@ol_qty10 smallint = 0,

@i_id11 int = 0, @s_w_id11 smallint = 0,
@ol_qty11 smallint = 0,

@i_id12 int = 0, @s_w_id12 smallint = 0,
@ol_qty12 smallint = 0,

@i_id13 int = 0, @s_w_id13 smallint = 0,
@ol_qty13 smallint = 0,

@i_id14 int = 0, @s_w_id14 smallint = 0,
@ol_qty14 smallint = 0,

@i_id15 int = 0, @s_w_id15 smallint = 0,
@ol_qty15 smallint = 0

as
declare @w_tax numeric(4,4),
@d_tax numeric(4,4),
@c_last char(16),
@c_credit char(2),
@c_discount numeric(4,4),
@i_price numeric(5,2),
@i_name char(24),
@i_data char(50),
```

```

        @o_entry_d      datetime,
        @remote_flag    int,
        @s_quantity     smallint,
        @s_data         char(50),
        @s_dist         char(24),
        @li_no          int,
        @o_id            int,
        @commit_flag    tinyint,
        @li_id          int,
        @li_s_w_id      smallint,
        @li_qty         smallint,
        @ol_number      int,
        @c_id_local     int

begin
begin transaction n
-- get district tax and next available order id and
update
-- plus initialize local variables
        update      district
        set          @d_tax      = d_tax,
                   @o_id      = d_next_o_id,
                   d_next_o_id = d_next_o_id + 1,
                   @o_entry_d = getdate(),
                   @li_no     = 0,
                   @commit_flag = 1
        where       d_w_id      = @w_id and
                   d_id       = @d_id

-- process orderlines
        while (@li_no < @o_ol_cnt)
        begin
                select @li_no = @li_no + 1

-- set i_id, s_w_id, and qty for this lineitem
                select      @li_id = case @li_no
                                when 1 then
@i_id1
                                when 2 then
@i_id2
                                when 3 then
@i_id3
                                when 4 then
@i_id4
                                when 5 then
@i_id5
                                when 6 then
@i_id6
                                when 7 then
@i_id7
                                when 8 then
@i_id8
                                when 9 then
@i_id9
                                when 10 then
@i_id10
                                when 11 then
@i_id11
                                when 12 then
@i_id12
                                when 13 then
@i_id13
                                when 14 then
@i_id14
                                when 15 then
@i_id15
                                end,
                                @li_s_w_id = case
                                when 1
                                when 2
                                when 3
                                when 4
                                when 5
                                when 6
                                when 7
                                when 8
                                when 9
                                when 10
                                when 11
                                when 12
                                when 13
                                when 14
                                when 15
                                end,
                                @li_qty = case @li_no
                                when 1 then
@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
                                when 11
                                when 12
                                when 13
                                when 14
                                when 15
                                end
        -- get item data (no one updates item)
                select      @i_price = i_price,
                           @i_name  = i_name,
                           @i_data  = i_data
                from        item (tablock
repeatableread)
                where      i_id = @li_id

-- update stock values
                update      stock
                set          s_ytd      =
s_ytd + @li_qty,
                           @s_quantity =
s_quantity - @li_qty +
                case when (s_quantity - @li_qty < 10)
then 91 else 0 end,
                           s_order_cnt =
s_order_cnt + 1,
                           s_remote_cnt =
s_remote_cnt + case when (@li_s_w_id = @w_id) then 0
else 1 end,
                           @s_data   =
s_data,
                           @s_dist   =
case @d_id
when 1 then s_dist_01
when 2 then s_dist_02
when 3 then s_dist_03
when 4 then s_dist_04
when 5 then s_dist_05
when 6 then s_dist_06
when 7 then s_dist_07
when 8 then s_dist_08
when 9 then s_dist_09

```

```

when 10 then s_dist_10
end
where s_i_id =
@li_id and s_w_id =
@li_s_w_id
-- if there actually is a stock (and item) with
these ids, go to work
if (@@rowcount > 0)
begin
-- insert order_line data (using data from item and
stock)
insert into order_line
values(@o_id,
@d_id,
@w_id,
@li_no,
@li_id,
@li_s_w_id,
"dec 31, 1899",
@li_qty,
@i_price * @li_qty,
@s_dist)
-- send line-item data to client
select @i_name,
@s_quantity,
b_g = case
when ( (patindex("%ORIGINAL%",@i_data) > 0) and
(patindex("%ORIGINAL%",@s_data) > 0) )
then
"B" else "G" end,
@i_price,
@s_quantity *
@i_price *
@li_qty
end
else
begin
-- no item (or stock) found - triggers rollback
condition
select "",0,"",0,0
select @commit_flag = 0

```

```

end
end
-- get customer last name, discount, and credit
rating
select @c_last = c_last,
@c_discount = c_discount,
@c_credit = c_credit,
@c_id_local = c_id
from customer (repeatableread)
where c_id = @c_id and
c_w_id = @w_id and
c_d_id = @d_id
-- insert fresh row into orders table
insert into orders values ( @o_id,
@d_id,
@w_id,
@c_id_local,
@o_entry_d,
0,
@o_ol_cnt,
@o_all_local)
-- insert corresponding row into new-order table
insert into new_order values (
@o_id,
@d_id,
@w_id)
-- select warehouse tax
select @w_tax = w_tax
from warehouse (repeatableread)
where w_id = @w_id
if (@commit_flag = 1)
commit transaction n
else
rollback transaction n
-- all that work for nuthin!!!
-- 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

```

null-txns.sql

```

-- TPC-C Null Txn Stored Procs
-- Microsoft TPC-C Kit
-- 8/17/99
--
-- This script will create stored procs which accept
the same parameters and return correctly formed
-- results sets to match the standard TPC-C stored
procs. Of course, the advantage is that these
-- stored procs place almost no load on SQL Server and
do not require a database.
--
-- The purpose of these stored procs is to size and
test the web client without the need of a fully
-- scaled database.
--
drop proc tpcc_delivery
drop proc tpcc_neworder
drop proc tpcc_orderstatus
drop proc tpcc_payment
drop proc tpcc_stocklevel
drop proc tpcc_version
drop table order_line_null
go
create proc tpcc_delivery @w_id
smallint,
@o_carrier_id smallint
as
declare @d_id tinyint,
@o_id int,
@c_id int,
@total numeric(12,2),
@oid1 int,
@oid2 int,
@oid3 int,
@oid4 int,
@oid5 int,
@oid6 int,
@oid7 int,
@oid8 int,
@oid9 int,
@oid10 int
declare @delaytime varchar(30)
-- uniform random delay of 0 - 1 second; avg = 0.50

```

```

select @delaytime = '00:00:0' +
cast(cast((rand()*1.00) as decimal(4,3)) as char(5))
waitfor delay @delaytime

select 3001, 3001, 3001, 3001, 3001, 3001, 3001,
3001, 3001, 3001

GO

create proc tpcc_neworder

    @w_id          smallint,

    @d_id          tinyint,

    @c_id          int,

    @o_ol_cnt      tinyint,

    @o_all_local   tinyint,

    @i_id1 int = 0, @s_w_id1 smallint = 0,
@ol_qty1 smallint = 0,

    @i_id2 int = 0, @s_w_id2 smallint = 0,
@ol_qty2 smallint = 0,

    @i_id3 int = 0, @s_w_id3 smallint = 0,
@ol_qty3 smallint = 0,

    @i_id4 int = 0, @s_w_id4 smallint = 0,
@ol_qty4 smallint = 0,

    @i_id5 int = 0, @s_w_id5 smallint = 0,
@ol_qty5 smallint = 0,

    @i_id6 int = 0, @s_w_id6 smallint = 0,
@ol_qty6 smallint = 0,

    @i_id7 int = 0, @s_w_id7 smallint = 0,
@ol_qty7 smallint = 0,

    @i_id8 int = 0, @s_w_id8 smallint = 0,
@ol_qty8 smallint = 0,

    @i_id9 int = 0, @s_w_id9 smallint = 0,
@ol_qty9 smallint = 0,

    @i_id10 int = 0, @s_w_id10 smallint = 0,
@ol_qty10 smallint = 0,

    @i_id11 int = 0, @s_w_id11 smallint = 0,
@ol_qty11 smallint = 0,

    @i_id12 int = 0, @s_w_id12 smallint = 0,
@ol_qty12 smallint = 0,

    @i_id13 int = 0, @s_w_id13 smallint = 0,
@ol_qty13 smallint = 0,

    @i_id14 int = 0, @s_w_id14 smallint = 0,
@ol_qty14 smallint = 0,

```

```

    @i_id15 int = 0, @s_w_id15 smallint = 0,
@ol_qty15 smallint = 0

as
declare @w_tax          numeric(4,4),
@d_tax                numeric(4,4),
@c_last               char(16),
@c_credit             char(2),
@c_discount            numeric(4,4),
@i_price              numeric(5,2),
@i_name               char(24),
@o_entry_d            datetime,
    @li_no             int,
    @o_id              int,
    @commit_flag       tinyint,
@li_id                int,
@li_qty               smallint

declare @delaytime varchar(30)

begin
-- uniform random delay of 0 - 0.6 second; avg =
0.3
select @delaytime = '00:00:0' +
cast(cast((rand()*0.60) as decimal(4,3)) as char(5))
waitfor delay @delaytime

-- process orderlines

select @commit_flag = 1, @li_no = 0

while (@li_no < @o_ol_cnt)
begin

select @li_id = case @li_no
when 1 then @i_id1
when 2 then @i_id2
when 3 then @i_id3
when 4 then @i_id4
when 5 then @i_id5
when 6 then @i_id6
when 7 then @i_id7
when 8 then @i_id8
when 9 then @i_id9
when 10 then
@i_id10
when 11 then
@i_id11
when 12 then
@i_id12
when 13 then
@i_id13
when 14 then
@i_id14
when 15 then
@i_id15
end

select @li_no = @li_no + 1

```

```

select @i_price = 23.45, @li_qty = @li_no

if (@li_id = 999999)
begin
select '',0,',0,0
select @commit_flag = 0
end
else
begin
select 'Item Name blah',17,'G',
@i_price, @i_price * @li_qty
end

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),
@data char(500),
@c_data char(500),
@datetime datetime,
@w_ytd numeric(12,2),
@d_ytd numeric(12,2),
@cnt smallint,
@val smallint,
@screen_data char(200),
@d_id_local tinyint,
@w_id_local smallint,
@c_id_local int

declare @delaytime varchar(30)

-- uniform random delay of 0 - 0.3 second; avg =
0.15
select @delaytime = '00:00:0' +
cast(cast((rand()*0.30) as decimal(4,3)) as char(5))
waitfor delay @delaytime

select @screen_data = ''

-- get customer info and update balances

select
@d_street_1 = 'rqSHHakqyV',
@d_street_2 = 'zZ98nW3BR2s',
@d_city = 'ArNr4GNFV9',
@d_state = 'aV',
@d_zip = '453511111'

-- get warehouse data and update year-to-date

select
@w_street_1 = 'rqSHHakqyV',
@w_street_2 = 'zZ98nW3BR2s',
@w_city = 'ArNr4GNFV9',
@w_state = 'aV',
@w_zip = '453511111'

select
@c_id = 123,
@c_balance = -10000.00,
@c_first = 'KmR03Xureb',

```

```

@c_middle = 'OE',
@c_last = 'BAROUGHTBAR',
@c_street_1 =
'QpGdOHjv8mR9vNI8V',
@c_street_2 =
'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

```

ordstat.sql

```

-- File:      ORDSTAT.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.22
--           Copyright Microsoft, 2001
-- Purpose:   Creates order status transaction stored
--           procedure
--
--           Interface Level: 4.10.000

use tpcc
go

if exists ( select name from sysobjects where name =
"tpcc_orderstatus" )
drop procedure tpcc_orderstatus
go

create proc tpcc_orderstatus @w_id smallint,
                             @d_id tinyint,
                             @c_id int,
                             @c_last char(16) = ""
as

declare @c_balance numeric(12,2),
        @c_first char(16),
        @c_middle char(2),
        @o_id int,
        @o_entry_d datetime,
        @o_carrier_id smallint,
        @cnt smallint

begin tran o

if (@c_id = 0)
begin

-- get customer id and info using last name

select @cnt =
(count(*)+1)/2
from customer
(repeatable read)
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_last, @c_middle =
c_middle @c_middle =
(repeatable read) from customer
where c_last =
@c_last and c_w_id =
@w_id and c_d_id =
@d_id order by c_w_id, c_d_id,
c_last, c_first set rowcount 0
end
else
begin

-- get customer info if by id

select @c_balance =
@c_first = c_first,
@c_middle = c_middle,
@c_last =
c_last from customer
(repeatable read)
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,

```

```

int,

                                @c_id
char(16) = ""

                                @c_last

as

declare  @w_street_1  char(20),
        @w_street_2  char(20),
        @w_city       char(20),
        @w_state      char(2),
        @w_zip        char(9),
        @w_name       char(10),
        @d_street_1  char(20),
        @d_street_2  char(20),
        @d_city       char(20),
        @d_state      char(2),
        @d_zip        char(9),
        @d_name       char(10),
        @c_first      char(16),
        @c_middle     char(2),
        @c_street_1  char(20),
        @c_street_2  char(20),
        @c_city       char(20),
        @c_state      char(2),
        @c_zip        char(9),
        @c_phone      char(16),
        @c_since      datetime,
        @c_credit     char(2),
        @c_credit_lim numeric(12,2),
        @c_balance    numeric(12,2),
        @c_discount   numeric(4,4),
        @data         char(500),
        @c_data       char(500),
        @datetime     datetime,
        @w_ytd        numeric(12,2),
        @d_ytd        numeric(12,2),
        @cnt          smallint,
        @val          smallint,
        @screen_data  char(200),
        @d_id_local  tinyint,
        @w_id_local  smallint,
        @c_id_local  int

select @screen_data = ""

begin tran p

-- get payment date

        select  @datetime = getdate()

        if (@c_id = 0)
        begin

-- get customer id and info using last name

                select  @cnt = count(*)
                from    customer

(repeatableread)

                where   c_last = @c_last and

```

```

                                c_w_id = @c_w_id and
                                c_d_id = @c_d_id

                                select  @val = (@cnt + 1) / 2
                                set    rowcount @val

                                select  @c_id = c_id
                                from    customer

(repeatableread)

                                where   c_last = @c_last and
                                        c_w_id = @c_w_id and
                                        c_d_id = @c_d_id
                                order  by c_last, c_first

                                set    rowcount 0

                                end

-- get customer info and update balances

                                update  customer
                                set    @c_balance = c_balance
                                        = c_balance - @h_amount,
                                        c_payment_cnt =
c_payment_cnt + 1,
                                        c_ytd_payment =
c_ytd_payment + @h_amount,
                                @c_first = c_first,
                                @c_middle = c_middle,
                                @c_last = c_last,
                                @c_street_1 = c_street_1,
                                @c_street_2 = c_street_2,
                                @c_city = c_city,
                                @c_state = c_state,
                                @c_zip = c_zip,
                                @c_phone = c_phone,
                                @c_credit = c_credit,
                                @c_credit_lim =
c_credit_lim,
                                @c_discount = c_discount,
                                @c_since = c_since,
                                @data = c_data,

                                where   @c_id_local = c_id
                                        c_id = @c_id and
                                        c_w_id = @c_w_id and
                                        c_d_id = @c_d_id

-- if customer has bad credit get some more info

                                if (@c_credit = "BC")
                                begin

-- compute new info

                                        select @c_data =
convert(char(5),@c_id) +
convert(char(4),@c_d_id) +
convert(char(5),@c_w_id) +

```

```

convert(char(4),@d_id) +
convert(char(5),@w_id) +
convert(char(19),@h_amount) +
substring(@data, 1, 458)

-- update customer info
update customer
set c_data = @c_data
where c_id = @c_id and
c_w_id = @c_w_id and
c_d_id = @c_d_id

select @screen_data =
substring (@c_data,1,200)
end

-- get district data and update year-to-date
update district
set d_ytd = d_ytd +
@h_amount,
@d_street_1 = d_street_1,
@d_street_2 = d_street_2,
@d_city = d_city,
@d_state = d_state,
@d_zip = d_zip,
@d_name = d_name,
@d_id_local = d_id
where d_w_id = @w_id and
d_id = @d_id

-- get warehouse data and update year-to-date
update warehouse
set w_ytd = w_ytd +
@h_amount,
@w_street_1 = w_street_1,
@w_street_2 = w_street_2,
@w_city = w_city,
@w_state = w_state,
@w_zip = w_zip,
@w_name = w_name,
@w_id_local = w_id
where w_id = @w_id

-- create history record
insert into history values ( @c_id_local,
@c_d_id,
@c_w_id,
@d_id_local,
@w_id_local,

```

```

@datetime,
@h_amount,
@w_name + " " + @d_name)
commit tran p

-- return data to client

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

go

```

random.c

```

// File: RANDOM.C
// Microsoft
TPC-C Kit Ver. 4.22
// Copyright
Microsoft, 1996, 1997, 1998, 1999, 2000, 2001
// Purpose: Random number generation routines
for database loader

// Includes
#include "tpcc.h"
#include "math.h"

// Defines
#define A 16807
#define M 2147483647
#define Q 127773
#define R 2836 /* M div A */
/* M mod A */

```

```

#define Thread __declspec(thread)

// Globals
long Thread Seed = 0; /* thread local seed */

/*****
*****
*
* random -
*
* Implements a GOOD pseudo random number
generator. This generator *
* will/should? run the complete period before
repeating. *
*
* Copied from:
*
* Random Numbers Generators: Good Ones Are Hard
to Find. *
* Communications of the ACM - October 1988
Volume 31 Number 10 *
*
* Machine Dependencies:
*
* long must be 2 ^ 31 - 1 or greater.
*
*
*****
*****/

/*****
*****
* seed - load the Seed value used in irand and drand.
Should be used before *
* first call to irand or drand.
*
*****
*****/

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

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

Seed = val;
}

```

```

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

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

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

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

    test = A * lo - R * hi;
    if ( test > 0 )
        Seed = test;
    else
        Seed = test + M;

    return( Seed );
}

/*****
*****
*
*
* drand - returns a double pseudo random number
between 0.0 and 1.0.      *
*****
*****

```

```

*      See irand.
*
*****
*****/
double drand()
{
#ifdef DEBUG
    printf("[%ld]DBG: Entering drand()...\n", (int)
GetCurrentThreadId());
#endif

    return( (double)irand() / 2147483647.0);
}

//=====
// Function   : RandomNumber
// Description:
//=====
long RandomNumber(long lower, long upper)
{
    long rand_num;

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

    if ( upper == lower )          /* pgd 08-13-
96 perf enhancement */
        return lower;

    upper++;

    if ( upper <= lower )
        rand_num = upper;
    else
        rand_num = lower + irand() %
(upper - lower); /* pgd 08-13-96 perf enhancement */

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

    return rand_num;
}

#if 0
//Original code pgd 08/13/96
long RandomNumber(long lower,
long upper)

```

```

{
    long rand_num;

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

    upper++;

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

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

    return rand_num;
}
#endif

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

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

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

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

    return rand_num;
}

```



```

// Includes
#include "tpcc.h"
#include <string.h>
#include <ctype.h>

//=====
//
// Function name: MakeAddress
//=====
void MakeAddress(char *street_1,
                char *street_2,
                char *city,
                char *state,
                char *zip)
{
#ifdef DEBUG
    printf("[%ld]DBG: Entering MakeAddress()\n",
           (int) GetCurrentThreadId());
#endif

    MakeAlphaString(10, 20, ADDRESS_LEN, street_1);
    MakeAlphaString(10, 20, ADDRESS_LEN, street_2);
    MakeAlphaString(10, 20, ADDRESS_LEN, city);
    MakeAlphaString(2, 2, STATE_LEN, state);
    MakeZipNumberString(9, 9, ZIP_LEN, zip);

#ifdef DEBUG
    printf("[%ld]DBG: MakeAddress: street_1: %s,
           street_2: %s, city: %s, state: %s, zip: %s\n",
           (int) GetCurrentThreadId(), street_1, street_2, city,
           state, zip);
#endif

    return;
}

//=====
//
// Function name: LastName
//=====
void LastName(int num,
             char *name)
{
    static char *n[] =
    {
        "BAR", "OUGHT", "ABLE", "PRI",
        "PRES", "ESE", "ANTI", "CALLY",
        "ATION", "EING"
    }
}

```

```

};

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

    if ((num >= 0) && (num < 1000))
    {
        strcpy(name, n[(num/100)%10]);
        strcat(name, n[(num/10)%10]);
        strcat(name, n[(num/1)%10]);

        if (strlen(name) < LAST_NAME_LEN)
        {
            PaddString(LAST_NAME_LEN, name);
        }
    }
    else
    {
        printf("\nError in LastName()...
              num < %ld> out of range (0,999)\n", num);
        exit(-1);
    }

#ifdef DEBUG
    printf("[%ld]DBG: LastName: num = [%d] ==>
           [%d] [%d] [%d]\n",
           (int)
           GetCurrentThreadId(), num, num/100, (num/10)%10,
           num%10);
    printf("[%ld]DBG: LastName: String = %s\n",
           (int) GetCurrentThreadId(), name);
#endif

    return;
}

//=====
//
// Function name: MakeAlphaString
//=====
//philipdu 08/13/96 Changed MakeAlphaString to use A-
//Z, a-z, and 0-9 in
//accordance with spec see below:
//The spec says:
//4.3.2.2 The notation random a-string [x .. y]
//(respectively, n-string [x .. y]) represents a
//string of random alphanumeric
//(respectively, numeric) characters of a random
//length of minimum x, maximum y,
//and mean (y+x)/2. Alphanumerics are A..Z, a..z, and
//0..9. The only other

```

```

//requirement is that the character set used "must be
//able to represent a minimum
//of 128 different characters". We are using 8-bit
//chars, so this is a non issue.
//It is completely unreasonable to stuff non-printing
//chars into the text fields.
//--CLevine 08/13/96

int MakeAlphaString(int x, int y, int z, char
                  *str)
{
    int len;
    int i;
    char cc = 'a';
    static char chArray[] =
    "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
    static int chArrayMax = 61;

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

    len = RandomNumber(x, y);

    for (i=0; i<len; i++)
    {
        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:          TPC.C.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;
        *database;
        *user;
        *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
    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;
} TPCCLDR_ARGS;

// String length constants
#define SERVER_NAME_LEN 20
#define DATABASE_NAME_LEN 20
#define USER_NAME_LEN 20
#define PASSWORD_LEN 20
#define TABLE_NAME_LEN 20
#define I_DATA_LEN 50
#define I_NAME_LEN 24
#define BRAND_LEN 1
#define LAST_NAME_LEN 16
#define W_NAME_LEN 10
#define ADDRESS_LEN 20
#define STATE_LEN 2
#define ZIP_LEN 9
#define S_DIST_LEN 24
#define S_DATA_LEN 50
#define D_NAME_LEN 10
#define FIRST_NAME_LEN 16
#define MIDDLE_NAME_LEN 2
#define PHONE_LEN 16
#define CREDIT_LEN 2
#define C_DATA_LEN 500
#define H_DATA_LEN 24
#define DIST_INFO_LEN 24
#define MAX_OL_NEW_ORDER_ITEMS 15
#define MAX_OL_ORDER_STATUS_ITEMS 15
#define STATUS_LEN 25
#define OL_DIST_INFO_LEN 24

#define C_SINCE_LEN 23
#define H_DATE_LEN 23

```

```

23 #define OL_DELIVERY_D_LEN
    #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();
void MakeAlphaString();
int MakeOriginalAlphaString();
int MakeNumberString();
int MakeZipNumberString();
void InitString();
void InitAddress();
void PaddString();

// File: TPCCLDR.C Microsoft
// TPC-C Kit Ver. 4.22 Copyright
// Microsoft, 2000, 2001
// Purpose: Source file for TPC-C database loader

// Includes
#include "tpcc.h"
#include "search.h"

// Defines
#define MAXITEMS 100000
#define MAXITEMS_SCALE_DOWN 100
#define CUSTOMERS_PER_DISTRICT 3000
#define CUSTOMERS_SCALE_DOWN 30
#define DISTRICT_PER_WAREHOUSE 10
#define ORDERS_PER_DISTRICT 3000
#define ORDERS_SCALE_DOWN 30
#define MAX_CUSTOMER_THREADS 2
#define MAX_ORDER_THREADS 3
#define MAX_MAIN_THREADS 4

// Functions declarations

```

tpccldr.c

```

void HandleErrorDBC (SQLHDBC hdbc1);

void CheckSQL();
void CheckDataBase();

long NURand();
void LoadItem();
void LoadWarehouse();

void Stock();
void District();

void LoadCustomer();
void CustomerBufInit();
void CustomerBufLoad();
void LoadCustomerTable();
void LoadHistoryTable();

void LoadOrders();
void OrdersBufInit();
void OrdersBufLoad();
void LoadOrdersTable();
void LoadNewOrderTable();
void LoadOrderLineTable();
void GetPermutation();
void CheckForCommit();
void OpenConnections();
void BuildIndex();
void FormatDate ();

// Shared memory structures

typedef struct
{
    long ol;
    long ol_i_id;
    short ol_supply_w_id;
    short ol_quantity;
    double ol_amount;
    char
    ol_dist_info[DIST_INFO_LEN+1];
    char
    ol_delivery_d[OL_DELIVERY_D_LEN+1];
} ORDER_LINE_STRUCT;

typedef struct
{
    long o_id;
    short o_d_id;
    short o_w_id;
    long o_c_id;
    short o_carrier_id;
    short o_ol_cnt;
    short o_all_local;
    ORDER_LINE_STRUCT o_ol[15];
} ORDERS_STRUCT;

typedef struct
{
    long c_id;
    short c_d_id;
    short c_w_id;

```

```

char
c_first[FIRST_NAME_LEN+1];
char
c_middle[MIDDLE_NAME_LEN+1];
char
c_last[LAST_NAME_LEN+1];
char
c_street_1[ADDRESS_LEN+1];
char
c_street_2[ADDRESS_LEN+1];
char
c_city[ADDRESS_LEN+1];
char
c_state[STATE_LEN+1];
char
c_zip[ZIP_LEN+1];
char
c_phone[PHONE_LEN+1];
char
c_credit[CREDIT_LEN+1];
double
c_credit_lim;
double
c_discount;
// fix to avoid ODBC float to numeric conversion
// 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];
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;

TPCCCLDR_ARGS
*aptr, args;

//=====
//
// Function name: main
//
//=====

int main(int argc, char **argv)
{

```

```

DWORD
dwThreadId[MAX_MAIN_THREADS];
HANDLE
hThread[MAX_MAIN_THREADS];
FILE
*fLoader;
char
buffer[255];
int
i;

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

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

// process command line arguments

aptr = &args;
GetArgsLoader(argc, argv, aptr);

// verify database and tables exist before
attempting to load

ChecksSQL();
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 = 10000");
        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("idxitm1");
        }

//=====
//

```

```

// Function : LoadWarehouse
//
// Loads WAREHOUSE table and loads Stock and District as Warehouses are created
//
//=====
void LoadWarehouse()
{
    short w_id;
    char w_name[W_NAME_LEN+1];
    char w_street_1[ADDRESS_LEN+1];
    char w_street_2[ADDRESS_LEN+1];
    char w_city[ADDRESS_LEN+1];
    char w_state[STATE_LEN+1];
    char w_zip[ZIP_LEN+1];
    double w_tax;
    double w_ytd;
    char name[20];
    long time_start;
    RETCODE rc;
    DBINT rcint;
    char bcphint[128];

    // Seed with unique number
    seed(2);

    printf("Loading warehouse table...\n");

    // if build index before load...
    if ((aptr->build_index == 1) && (aptr->index_order == 1))
        BuildIndex("idxwarc1");

    InitString(w_name, W_NAME_LEN+1);
    InitAddress(w_street_1, w_street_2, w_city, w_state, w_zip);

    sprintf(name, "%s.%s", aptr->database, "warehouse");

    rc = bcp_init(w_hdbc1, name, NULL, "logs\\whouse.err", DB_IN);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcphint, "tablock, order (w_id), ROWS_PER_BATCH = %d", aptr->num_warehouses);
        rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcphint);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);
    }

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

```

```

        HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) w_name, 0,
W_NAME_LEN, NULL, 0, 0, 2);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) w_street_1,
0, ADDRESS_LEN, NULL, 0, 0, 3);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) w_street_2,
0, ADDRESS_LEN, NULL, 0, 0, 4);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

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

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

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

        rc = bcp_bind(w_hdbc1, (BYTE *) &w_tax, 0,
SQL_VARLEN_DATA, NULL, 0, SQLFLT8, 8);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

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

        time_start = (TimeNow() / MILLI);

        warehouse_rows_loaded = 0;

        for (w_id = (short)aptr-
>starting_warehouse; w_id <= aptr->num_warehouses;
w_id++)
        {
            MakeAlphaString(6,10, W_NAME_LEN,
w_name);

            MakeAddress(w_street_1,
w_street_2, w_city, w_state, w_zip);

            w_tax = ((float)
RandomNumber(0L,2000L))/10000.00;

            w_ytd = 300000.00;

            rc = bcp_sendrow(w_hdbc1);
            if (rc != SUCCEEDED)

```

```

        HandleErrorDBC(w_hdbc1);

        warehouse_rows_loaded++;
        CheckForCommit(w_hdbc1, i_hstmt1,
warehouse_rows_loaded, "warehouse", &time_start);
    }

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

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

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

    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);

        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 != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_09,
0, S_DIST_LEN, NULL, 0, 0, 12);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_10,
0, S_DIST_LEN, NULL, 0, 0, 13);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) &s_ytd, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 14);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *)
&s_order_cnt, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
15);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *)
&s_remote_cnt, 0, SQL_VARLEN_DATA, NULL, 0, SQLINT2,
16);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_data, 0,
S_DATA_LEN, NULL, 0, 0, 17);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);

        s_ytd = s_order_cnt = s_remote_cnt = 0;

        time_start = (TimeNow() / MILLI);

        printf("...Loading stock table\n");

        for (s_i_id=1; s_i_id <= max_items;
s_i_id++)
        {
            for (s_w_id = (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 != SUCCEED)
                    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
        d_id;
        w_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_1;
        // SQLSMALLINT
recnum, MsgLen;
        // SQLCHAR
        SqlState[6],
Msg[SQL_MAX_MESSAGE_LENGTH];
        // SQLINTEGER
NativeError;

        // Seed with unique number
seed(5);

        printf("Loading customer and history
tables...\n");

        // if build index before load..
        if ((aptr->build_index == 1) && (aptr-
>index_order == 1))
            BuildIndex("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 != SUCCEED)
            HandleErrorDBC(c_hdbc1);

        if ((aptr->build_index == 1) && (aptr-
>index_order == 1))
        {
            sprintf(bcphint, "tablock, order
(c_w_id, c_d_id, c_id), ROWS_PER_BATCH = %u", (aptr-
>num_warehouses * 30000));
            rc = bcp_control(c_hdbc1,
BCPHINTS, (void*) bcphint);
            if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);
        }

        sprintf(name, "%s..%s", aptr->database,
"history");

        rc = bcp_init(c_hdbc2, name, NULL,
"logs\\history.err", DB_IN);

```



```

        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;
        customer_buf[i].c_delivery_cnt =
0;

        // Generate CUSTOMER and HISTORY
data

        customer_buf[i].c_id = c[i].c_id;
        strcpy(customer_buf[i].c_first,
c[i].c_first);
        strcpy(customer_buf[i].c_last,
c[i].c_last);

        customer_buf[i].c_middle[0] =
'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     c_discount;

// fix to avoid ODBC float to numeric
conversion problem.
// double          c_balance;
char          c_balance[6];

double      c_ytd_payment;
short      c_payment_cnt;
short      c_delivery_cnt;
char       c_data[C_DATA_LEN+1];
char       c_since[C_SINCE_LEN+1];

RETCODE     rc;

rc = bcp_bind(c_hdbc1, (BYTE *) &c_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) &c_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) &c_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) c_first, 0,
FIRST_NAME_LEN, NULL, 0, 0, 4);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0,
MIDDLE_NAME_LEN, NULL, 0, 0, 5);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) c_last, 0,
LAST_NAME_LEN, NULL, 0, 0, 6);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0,
ADDRESS_LEN, NULL, 0, 0, 7);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

```

```

rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0,
ADDRESS_LEN, NULL, 0, 0, 8);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

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 != SUCCEED)

        HandleErrorDBC(c_hdbc1);

        customer_rows_loaded++;
        CheckForCommit(c_hdbc1, c_hstmt1,
customer_rows_loaded, "customer",
&customer_time_start->time_start);
    }
}

//=====
//
// Function   : LoadHistoryTable
//
//=====
void LoadHistoryTable(LOADER_TIME_STRUCT
*history_time_start)
{
    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 != SUCCEED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 2);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 3);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 4);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc2);

```

```

        rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 5);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &h_date, 0,
H_DATE_LEN, NULL, 0, SQLCHARACTER, 6);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc2);

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

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

    for (i = 0; i < customers_per_district; i++)
    {
        c_id = customer_buf[i].c_id;
        c_d_id = customer_buf[i].c_d_id;
        c_w_id = customer_buf[i].c_w_id;
        h_amount =
customer_buf[i].h_amount;
        strcpy(h_data,
customer_buf[i].h_data);

        FormatDate(&h_date);

        // send to server
rc = bcp_sendrow(c_hdbc2);
if (rc != SUCCEED)

        HandleErrorDBC(c_hdbc2);

        history_rows_loaded++;
        CheckForCommit(c_hdbc2, c_hstmt2,
history_rows_loaded, "history", &history_time_start-
>time_start);
    }

//=====
//
// Function   : LoadOrders
//
//=====
void LoadOrders()
{
    LOADER_TIME_STRUCT    orders_time_start;
    LOADER_TIME_STRUCT
new_order_time_start;

```

```

        LOADER_TIME_STRUCT
order_line_time_start;
        short                w_id;
        short                d_id;
        DWORD                dwThreadId[MAX_ORDER_THREADS];
        HANDLE               hThread[MAX_ORDER_THREADS];
        char                  name[20];
        RETCODE               rc;
        char                  bcphint[128];

        // seed with unique number
seed(6);

        printf("Loading orders...\n");

        // if build index before load...
if ((aptr->build_index == 1) && (aptr-
>index_order == 1))
        {
            BuildIndex("idxordc1");
            BuildIndex("idxnodc1");
            BuildIndex("idxodlc1");
        }

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

        rc = bcp_init(o_hdbc1, name, NULL,
"log\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,
"log\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_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);

data // Generate ORDER-LINE
first_new_order if (o_id <
{
    orders_buf[o_id].o_ol[ol].ol_amount = 0;
// Added to
insure ol_delivery_d set properly during load

    FormatDate(&orders_buf[o_id].o_ol[ol].ol_de
livery_d);
}
else
{
    orders_buf[o_id].o_ol[ol].ol_amount =
RandomNumber(1,999999)/100.0;
// Added to
insure ol_delivery_d set properly during load

// odbc
datetime format
    strcpy(orders_buf[o_id].o_ol[ol].ol_deliver
y_d,"1899-12-31 00:00:00.000");
}
}

//=====
// Function : LoadOrdersTable
//=====
void LoadOrdersTable(LOADER_TIME_STRUCT
*orders_time_start)
{
    int i;
    long o_id;
    short o_d_id;
    short o_w_id;

    long o_c_id;
    short o_carrier_id;
    short o_ol_cnt;
    short o_all_local;

    char
o_entry_d[O_ENTRY_D_LEN+1];
RETCODE rc;

```

```

DBINT          rcint;

// bind ORDER data
rc = bcp_bind(o_hdbc1, (BYTE *) &o_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 1);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

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

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

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

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

rc = bcp_bind(o_hdbc1, (BYTE *) &o_carrier_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT2, 6);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

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

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

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

    FormatDate(&o_entry_d);

    // send data to server

```

```

rc = bcp_sendrow(o_hdbc1);
if (rc != SUCCEEDED)

    HandleErrorDBC(o_hdbc1);

    orders_rows_loaded++;

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

// rcint = bcp_batch(o_hdbc1);
// if (rcint < 0)
//     HandleErrorDBC(o_hdbc1);

if ((o_w_id == aptr->num_warehouses) &&
(o_d_id == 10))
{
    rcint = bcp_done(o_hdbc1);

    if (rcint < 0)

        HandleErrorDBC(o_hdbc1);

        SQLFreeStmt(o_hstmt1, SQL_DROP);
        SQLDisconnect(o_hdbc1);
        SQLFreeConnect(o_hdbc1);

        // if build index after load..
        if ((aptr->build_index == 1) &&
(aptr->index_order == 0))
            BuildIndex("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 != SUCCEEDED)
    HandleErrorDBC(o_hdbc2);

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

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

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

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

        HandleErrorDBC(o_hdbc2);

        new_order_rows_loaded++;

        CheckForCommit(o_hdbc2, o_hstmt2,
new_order_rows_loaded, "new_order",
&new_order_time_start->time_start);
}

// rcint = bcp_batch(o_hdbc2);
// if (rcint < 0)
//     HandleErrorDBC(o_hdbc2);

if ((o_w_id == aptr->num_warehouses) &&
(o_d_id == 10))
{
    rcint = bcp_done(o_hdbc2);

    if (rcint < 0)

        HandleErrorDBC(o_hdbc2);

        SQLFreeStmt(o_hstmt2, SQL_DROP);
        SQLDisconnect(o_hdbc2);
        SQLFreeConnect(o_hdbc2);

        // if build index after load..
        if ((aptr->build_index == 1) &&
(aptr->index_order == 0))
            BuildIndex("idxmodc1");
}
}

```

```

//=====
//
// 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, SQLINT2, 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("idxodlc1");
    }
}

//=====
//
// 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,

```



```

rows_loaded,                int
                             char *table_name,
                             long
*time_start)
{
    long time_end, time_diff;
    // DBINT rcint;

    if ( !(rows_loaded % aptr->batch) )
    {
        // rcint = bcp_batch(hdbc);
        // if (rcint < 0)
        //     HandleErrorDBC(hdbc);

        time_end = (TimeNow() / MILLI);
        time_diff = time_end -
*time_start;

        printf("-> Loaded %ld rows into
%s in %ld sec - Total = %d (%.2f rps)\n",
            aptr->batch,
            table_name,
            time_diff,
            rows_loaded,
            (float) aptr->batch / (time_diff ? time_diff : 1L));

        *time_start = time_end;
    }

    return;
}

//=====
//
// Function : OpenConnections
//
//=====
void OpenConnections()
{
    RETCODE rc;

    char
    szDriverString[300];
    char
    szDriverStringOut[1024];
    SQLSMALLINT
    cbDriverStringOut;

    SQLAllocHandle(SQL_HANDLE_ENV,
SQL_NULL_HANDLE, &henv );

```

```

    SQLSetEnvAttr(henv, SQL_ATTR_ODBC_VERSION,
(void*)SQL_OV_ODBC3, 0 );

    SQLAllocHandle(SQL_HANDLE_DBC, henv ,
&i_hdbc1);
    SQLAllocHandle(SQL_HANDLE_DBC, henv ,
&w_hdbc1);
    SQLAllocHandle(SQL_HANDLE_DBC, henv ,
&c_hdbc1);
    SQLAllocHandle(SQL_HANDLE_DBC, henv ,
&c_hdbc2);
    SQLAllocHandle(SQL_HANDLE_DBC, henv ,
&o_hdbc1);
    SQLAllocHandle(SQL_HANDLE_DBC, henv ,
&o_hdbc2);
    SQLAllocHandle(SQL_HANDLE_DBC, henv ,
&o_hdbc3);

    SQLSetConnectAttr(i_hdbc1, SQL_COPT_SS_BCP,
(void *)SQL_BCP_ON, SQL_IS_INTEGER );
    SQLSetConnectAttr(w_hdbc1, SQL_COPT_SS_BCP,
(void *)SQL_BCP_ON, SQL_IS_INTEGER );
    SQLSetConnectAttr(c_hdbc1, SQL_COPT_SS_BCP,
(void *)SQL_BCP_ON, SQL_IS_INTEGER );
    SQLSetConnectAttr(c_hdbc2, SQL_COPT_SS_BCP,
(void *)SQL_BCP_ON, SQL_IS_INTEGER );
    SQLSetConnectAttr(o_hdbc1, SQL_COPT_SS_BCP,
(void *)SQL_BCP_ON, SQL_IS_INTEGER );
    SQLSetConnectAttr(o_hdbc2, SQL_COPT_SS_BCP,
(void *)SQL_BCP_ON, SQL_IS_INTEGER );
    SQLSetConnectAttr(o_hdbc3, SQL_COPT_SS_BCP,
(void *)SQL_BCP_ON, SQL_IS_INTEGER );

    // Open connections to SQL Server
    // Connection 1

    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,

        aptr->server,
        aptr->user,
        aptr->password,
        aptr->database );

    rc = SQLSetConnectOption (i_hdbc1,
SQL_PACKET_SIZE, aptr->pack_size);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);

    rc = SQLDriverConnect ( i_hdbc1,
NULL,

        (SQLCHAR*)&szDriverString[0] ,
        SQL_NTS,
        (SQLCHAR*)&szDriverStringOut[0],

```

```

sizeof(szDriverStringOut),
&cbDriverStringOut,
SQL_DRIVER_NOPROMPT );
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);

    // Connection 2

    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,

        aptr->server,
        aptr->user,
        aptr->password,
        aptr->database );

    rc = SQLSetConnectOption (w_hdbc1,
SQL_PACKET_SIZE, aptr->pack_size);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    rc = SQLDriverConnect ( w_hdbc1,
NULL,

        (SQLCHAR*)&szDriverString[0] ,
        SQL_NTS,
        (SQLCHAR*)&szDriverStringOut[0],
sizeof(szDriverStringOut),
&cbDriverStringOut,
SQL_DRIVER_NOPROMPT );
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    // Connection 3

    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,

        aptr->server,
        aptr->user,
        aptr->password,
        aptr->database );

    rc = SQLSetConnectOption (c_hdbc1,
SQL_PACKET_SIZE, aptr->pack_size);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

```

```

rc = SQLDriverConnect ( c_hdbc1,
    NULL,
    (SQLCHAR*)&szDriverString[0] ,
    SQL_NTS,
    (SQLCHAR*)&szDriverStringOut[0],
    sizeof(szDriverStringOut),
    &cbDriverStringOut,
    SQL_DRIVER_NOPROMPT );
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

// Connection 4
sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
    aptr->server,
    aptr->user,
    aptr->password,
    aptr->database );

rc = SQLSetConnectOption (c_hdbc2,
SQL_PACKET_SIZE, aptr->pack_size);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc2);

rc = SQLDriverConnect ( c_hdbc2,
    NULL,
    (SQLCHAR*)&szDriverString[0] ,
    SQL_NTS,
    (SQLCHAR*)&szDriverStringOut[0],
    sizeof(szDriverStringOut),
    &cbDriverStringOut,
    SQL_DRIVER_NOPROMPT );
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc2);

// Connection 5
sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
    aptr->server,
    aptr->user,

```

```

    aptr->password,
    aptr->database );

rc = SQLSetConnectOption (o_hdbc1,
SQL_PACKET_SIZE, aptr->pack_size);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

rc = SQLDriverConnect ( o_hdbc1,
    NULL,
    (SQLCHAR*)&szDriverString[0] ,
    SQL_NTS,
    (SQLCHAR*)&szDriverStringOut[0],
    sizeof(szDriverStringOut),
    &cbDriverStringOut,
    SQL_DRIVER_NOPROMPT );
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

// Connection 6
sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
    aptr->server,
    aptr->user,
    aptr->password,
    aptr->database );

rc = SQLSetConnectOption (o_hdbc2,
SQL_PACKET_SIZE, aptr->pack_size);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc2);

rc = SQLDriverConnect ( o_hdbc2,
    NULL,
    (SQLCHAR*)&szDriverString[0] ,
    SQL_NTS,
    (SQLCHAR*)&szDriverStringOut[0],
    sizeof(szDriverStringOut),
    &cbDriverStringOut,
    SQL_DRIVER_NOPROMPT );
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc2);

```

```

// Connection 7
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
    aptr->server,
    aptr->user,
    aptr->password,
    aptr->database );

rc = SQLSetConnectOption (o_hdbc3,
SQL_PACKET_SIZE, aptr->pack_size);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc3);

rc = SQLDriverConnect ( o_hdbc3,
    NULL,
    (SQLCHAR*)&szDriverString[0] ,
    SQL_NTS,
    (SQLCHAR*)&szDriverStringOut[0],
    sizeof(szDriverStringOut),
    &cbDriverStringOut,
    SQL_DRIVER_NOPROMPT );
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc3);
}

//=====
//
// Function name: BuildIndex
//
//=====
void BuildIndex(char          *index_script)
{
    char    cmd[256];

    printf("Starting index creation:
%s\n",index_script);

    sprintf(cmd, "ieql -S%s -U%s -P%s -e -
%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,
sizeof(Msg) , &MsgLen ) != SQL_NO_DATA )
    {
        sprintf( szLastError , "%s" ,
Msg );

        _strtime(timebuf);
        _strdate(datebuf);

        printf( "[%s : %s] %s\n" ,
datebuf, timebuf, szLastError);

        fp1 =
fopen("logs\\tpccldr.err","w");
        if (fp1 == NULL)
            printf("ERROR: Unable
to open errorlog file.\n");
        else
        {
            fprintf(fp1, "[%s : %s]
%s\n" , datebuf, timebuf, szLastError);
            fclose(fp1);
        }
        i++;
    }

void 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,
sizeof(Msg) , &MsgLen ) != SQL_NO_DATA )
    {
        sprintf( szLastError , "%s" ,
Msg );

        _strtime(timebuf);
        _strdate(datebuf);

        printf( "[%s : %s] %s\n" ,
datebuf, timebuf, szLastError);

        fp1 =
fopen("logs\\tpccldr.err","w");
        if (fp1 == NULL)
            printf("ERROR: Unable
to open errorlog file.\n");
        else
        {
            fprintf(fp1, "[%s : %s]
%s\n" , datebuf, timebuf, szLastError);
            fclose(fp1);
        }
        i++;
    }

void FormatDate ( char* szTimeCOutput )
{
    struct tm when;
    time_t now;

    time( &now );
    when = *localtime( &now );

    mktime( &when );

    // odbc datetime format
    strftime( szTimeCOutput , 30 , "%Y-%m-%d
%H:%M:%S.000" , &when );

    return;
}

//=====
//
// Function : CheckSQL
//
//=====
void CheckSQL()
{
    RETCODE rc;

    char
szDriverString[300];
    char
szDriverStringOut[1024];
    int
SQLBuildFlag;
    char
resp;

    SQLSMALLINT
cbDriverStringOut;
    SQLCHAR
SQLVersion[19];
    SQLINTEGER
SQLVersionInd;

    SQLAllocHandle(SQL_HANDLE_ENV,
SQL_NULL_HANDLE, &henv );

    SQLSetEnvAttr(henv, SQL_ATTR_ODBC_VERSION,
(void*)SQL_OV_ODBC3, 0 );

    SQLAllocHandle(SQL_HANDLE_DBC, henv ,
&v_hdbc);

    SQLSetConnectAttr(v_hdbc, SQL_COPT_SS_BCP,
(void *)SQL_BCP_ON, SQL_IS_INTEGER );

    // Open connection to SQL Server

    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s" ,

aptr->server,

aptr->user,

aptr->password );

    if ( SQLSetConnectAttr( v_hdbc,
SQL_ATTR_PACKET_SIZE, (SQLPOINTER)aptr->pack_size,
SQL_IS_UINTEGER ) != SQL_SUCCESS )
        HandleErrorDBC(v_hdbc);

    rc = SQLDriverConnect ( v_hdbc,

NULL,

(SQLCHAR*)&szDriverString[0] ,

SQL_NTS,

(SQLCHAR*)&szDriverStringOut[0],

```



```

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':
break;
TablesBitMap[8] = '1';
}
// 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;
        }
        break;
    }
}

// if one or more tables are
missing, display message and exit the loader
if (ExitFlag = 1)

```

```

    {
        printf("\nExiting TPC-C
Loader!\n");
        printf("\nCheck LOGS\
directory for database\n");
        printf("or table
creation errors.\n");

        // cleanup database
        connections and handles
        SQLFreeHandle(SQL_HANDLE_STMT, v_hstmt);
        SQLDisconnect(v_hdbc);
        SQLFreeHandle(SQL_HANDLE_DBC, v_hdbc);
        exit(1);
    }
}

// cleanup database connections and handles
SQLFreeHandle(SQL_HANDLE_STMT, v_hstmt);
SQLDisconnect(v_hdbc);
SQLFreeHandle(SQL_HANDLE_DBC, v_hdbc);

return;
}

```

VerifyTpccLoad.sql

```

-- File:      VERIFYTPCCLOAD.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.22
-- Copyright Microsoft, 2001
-- Purpose:   Performs series of TPCC 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

```

```

create proc tpcc_version
as
declare @version char(8)

begin
    select @version = "4.10.000"
    select @version as "Version"
end

go

```

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

```

Appendix C: Tunable Parameters

Microsoft SQL Server 2000 Startup Parameters

```
start sqlservr.exe -c -x -t3502 -g128 -T3428
```

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
-g128 Specify the amount of virtual address space
in MB, SQL Server will leave available for memory
allocations, excluding the buffer pool and threads
stack, such as dynamically- loaded DLLs, extended
procedure calls, etc. Incorrect use of this option
can lead to conditions under which SQL Server may not
start or may encounter runtime errors.
```

File locations:

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

Boot.ini Parameters

```
[boot loader]
timeout=30
default=multi(0)disk(0)rdisk(0)partition(1)\WINDOWS
[operating systems]
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows
Server 2003, Enterprise PAE" /fastdetect /PAE
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows
Server 2003, Enterprise 8GB" /fastdetect /PAE
/MAXMEM=8192
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows
Server 2003, Enterprise PAE TIMERES" /fastdetect /PAE
/TIMERES=21000
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows
Server 2003, Enterprise" /fastdetect
```

Microsoft SQL Server 2000 Configuration Parameters

1> 2>	name	config_value	run_value	minimum
maximum	config_value	run_value		
-----	-----	-----	-----	-----
	affinity mask			-2147483648
	2147483647	15	15	
	allow updates			0
1	0	0		
	awe enabled			0
1	1	1		
	c2 audit mode			0
1	0	0		
	cost threshold for parallelism			0
32767	5	5		
	Cross DB Ownership Chaining			0
1	0	0		
	cursor threshold			-1
2147483647	-1	-1		
	default full-text language			0
2147483647	1033	1033		
	default language			0
9999	0	0		
	fill factor (%)			0
100	0	0		
	index create memory (KB)			704
2147483647	0	0		
	lightweight pooling			0
1	1	1		
	locks			5000
2147483647	0	0		
	max degree of parallelism			0
32	0	0		
	max server memory (MB)			4
2147483647	2147483647	2147483647		
	max text repl size (B)			0
2147483647	65536	65536		
	max worker threads			32
32767	344	344		
	media retention			0
365	0	0		
	min memory per query (KB)			512
2147483647	1024	1024		
	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)
2147483647 -1 -1 -1
recovery interval (min)
32767 80 80 0
remote access
1 1 1 0
remote login timeout (s)
2147483647 20 20 0
remote proc trans
1 0 0 0
remote query timeout (s)
2147483647 600 600 0
scan for startup procs
1 0 0 0
set working set size
1 0 0 0
show advanced options
1 1 1 0
two digit year cutoff
9999 2049 2049 1753
user connections
32767 0 0 0
user options
32767 0 0 0

1> 2> 3>
```

Microsoft SQL Server 2000 Torn Page Detection Status

```
1> 2> OptionName
CurrentSetting
-----
torn page detection off

1> 2> 3>
```

Benchcraft Profile

```
Profile: arizona_9120_12eng_v3
File Path: C:\Program
Files\BenchCraft\arizona_9120_12eng_v3.xml
Version: 5

Number of Engines: 12

Name: RTE37
Description:
Directory: c:\blog\n37.log
Machine: N37
Parameter Set: Aggressive
Index: 0
Seed: 23494
```


Configured Users: 7600
Pipe Name: DRIVER11119694281
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 0
Additional Options:

Name: RTE38
Description:
Directory: c:\blog\n38.log
Machine: N38
Parameter Set: Aggressive
Index: 100000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER21119733406
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 0
Additional Options:

Name: RTE39
Description:
Directory: c:\blog\n39.log
Machine: N39
Parameter Set: Aggressive
Index: 200000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER31119762671
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 0
Additional Options:

Name: RTE40
Description:
Directory: c:\blog\n43.log
Machine: N43
Parameter Set: Aggressive
Index: 300000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER41119794906
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 0
Additional Options:

Name: RTE41
Description:

Directory: c:\blog\n41.log
Machine: N41
Parameter Set: Aggressive
Index: 400000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER51119816171
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 0
Additional Options:

Name: RTE42
Description:
Directory: c:\blog\n42.log
Machine: N42
Parameter Set: Aggressive
Index: 500000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER61119848593
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 0
Additional Options:

Name: RTE37a
Description:
Directory: c:\blog\n37a.log
Machine: N37
Parameter Set: Aggressive
Index: 600000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER710564453
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 1
Additional Options:

Name: RTE38a
Description:
Directory: c:\blog\n38a.log
Machine: N38
Parameter Set: Aggressive
Index: 700000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER810604421
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233

CPU: 1
Additional Options:

Name: RTE39a
Description:
Directory: c:\blog\n39a.log
Machine: N39
Parameter Set: Aggressive
Index: 800000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER910632625
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 1
Additional Options:

Name: RTE40a
Description:
Directory: c:\blog\n43a.log
Machine: N43
Parameter Set: Aggressive
Index: 900000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER1010659187
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 1
Additional Options:

Name: RTE41a
Description:
Directory: c:\blog\n41a.log
Machine: N41
Parameter Set: Aggressive
Index: 1000000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER1110712156
Connect Rate: 10000
Start Rate: 10000
Max. Concurrency: 7500
Concurrency Rate: 10000
CLIENT_NURAND: 233
CPU: 1
Additional Options:

Name: RTE42a
Description:
Directory: c:\blog\n42a.log
Machine: N42
Parameter Set: Aggressive
Index: 1100000000
Seed: 23494
Configured Users: 7600
Pipe Name: DRIVER1210744390

Connect Rate: 10000
 Start Rate: 10000
 Max. Concurrency: 7500
 Concurrency Rate: 10000
 CLIENT_NURAND: 233
 CPU: 1
 Additional Options:

Number of User groups: 12

Driver Engine: RTE37
 IIS Server: CR73
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 1 - 760
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE38
 IIS Server: CR74
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 1521 - 2280
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE39
 IIS Server: CR75
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 3041 - 3800
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE40
 IIS Server: CR76
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 4561 - 5320
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600

District id: 1
 Scale Down: No

Driver Engine: RTE41
 IIS Server: CR77
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 6081 - 6840
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE42
 IIS Server: CR78
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 7601 - 8360
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE37a
 IIS Server: CR73
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 761 - 1520
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE38a
 IIS Server: CR74
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 2281 - 3040
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE39a
 IIS Server: CR75
 SQL Server: ARIZONA
 Database: tpcc

User: sa
 Protocol: HTML
 w_id Range: 3801 - 4560
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE40a
 IIS Server: CR76
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 5321 - 6080
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE41a
 IIS Server: CR77
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 6841 - 7600
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Driver Engine: RTE42a
 IIS Server: CR78
 SQL Server: ARIZONA
 Database: tpcc
 User: sa
 Protocol: HTML
 w_id Range: 8361 - 9120
 w_id Min Warehouse: 1
 w_id Max Warehouse: 9120
 Scale: Normal
 User Count: 7600
 District id: 1
 Scale Down: No

Number of Parameter Sets: 15

Key	-Default Default Parameter Set				
	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
12.05	18.02	0.10	New Order	10.00	0.10
				5.00	

12.05	3.01		Payment	10.00		
			0.10	5.00	0.10	
5.05	2.01		Delivery	1.00		
			0.10	5.00	0.10	
5.05	2.01		Stock Level	1.00		
			0.10	20.00	0.10	
10.05	2.01		Order Status	1.00		
			0.10	5.00	0.10	
			2.2			
			2.2			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
24.00	18.02		New Order	44.92		
			0.10	5.00	0.10	
24.00	3.01		Payment	43.01		
			0.10	5.00	0.10	
10.00	2.01		Delivery	4.02		
			0.10	5.00	0.10	
10.00	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
20.00	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.8			
			1.8			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
21.60	18.02		New Order	44.92		
			0.10	5.00	0.10	
21.60	3.01		Payment	43.01		
			0.10	5.00	0.10	
9.00	2.01		Delivery	4.02		
			0.10	5.00	0.10	
9.00	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
18.00	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.6			
			1.6			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
19.20	18.02		New Order	44.92		
			0.10	5.00	0.10	
19.20	3.01		Payment	43.01		
			0.10	5.00	0.10	
8.00	2.01		Delivery	4.02		
			0.10	5.00	0.10	
8.00	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
16.00	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.4			
			1.4			

Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
16.80	18.02		New Order	44.92		
			0.10	5.00	0.10	
16.80	3.01		Payment	43.01		
			0.10	5.00	0.10	
7.00	2.01		Delivery	4.02		
			0.10	5.00	0.10	
7.00	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
14.00	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.2			
			1.2			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
14.40	18.02		New Order	44.92		
			0.10	5.00	0.10	
14.40	3.01		Payment	43.01		
			0.10	5.00	0.10	
6.00	2.01		Delivery	4.02		
			0.10	5.00	0.10	
6.00	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
12.00	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.1			
			1.1			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
13.20	18.02		New Order	44.92		
			0.10	5.00	0.10	
13.20	3.01		Payment	43.01		
			0.10	5.00	0.10	
5.50	2.01		Delivery	4.02		
			0.10	5.00	0.10	
5.50	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
11.00	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.08			
			1.08			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.96	18.02		New Order	44.92		
			0.10	5.00	0.10	
12.96	3.01		Payment	43.01		
			0.10	5.00	0.10	
5.40	2.01		Delivery	4.02		
			0.10	5.00	0.10	
5.40	2.01		Stock Level	4.03		
			0.10	20.00	0.10	

10.80	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.06			
			1.06			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.72	18.02		New Order	44.92		
			0.10	5.00	0.10	
12.72	3.01		Payment	43.01		
			0.10	5.00	0.10	
5.30	2.01		Delivery	4.02		
			0.10	5.00	0.10	
5.30	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
10.60	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.04			
			1.04			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.48	18.02		New Order	44.92		
			0.10	5.00	0.10	
12.48	3.01		Payment	43.01		
			0.10	5.00	0.10	
5.20	2.01		Delivery	4.02		
			0.10	5.00	0.10	
5.20	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
10.40	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.03			
			1.03			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.36	18.02		New Order	44.92		
			0.10	5.00	0.10	
12.36	3.01		Payment	43.01		
			0.10	5.00	0.10	
5.15	2.01		Delivery	4.02		
			0.10	5.00	0.10	
5.15	2.01		Stock Level	4.03		
			0.10	20.00	0.10	
10.30	2.01		Order Status	4.02		
			0.10	5.00	0.10	
			1.02			
			1.02			
Key	RT	RT	Menu	Txn	Think	
				Weight	Time	
Time	Delay	Fence	Delay			
12.24	18.02		New Order	44.92		
			0.10	5.00	0.10	

			Payment	43.01		
12.24	3.01	0.10	5.00	0.10		
			Delivery	4.02		
5.10	2.01	0.10	5.00	0.10		
			Stock Level	4.03		
5.10	2.01	0.10	20.00	0.10		
			Order Status	4.02		
10.20	2.01	0.10	5.00	0.10		
			1.01			
			1.01			

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.92	
12.12	18.02	0.10	5.00	0.10	
			Payment	43.01	
12.12	3.01	0.10	5.00	0.10	
			Delivery	4.02	
5.05	2.01	0.10	5.00	0.10	
			Stock Level	4.03	
5.05	2.01	0.10	20.00	0.10	
			Order Status	4.02	
10.10	2.01	0.10	5.00	0.10	

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.92	
12.05	18.02	0.10	5.00	0.10	
			Payment	43.01	
12.05	3.01	0.10	5.00	0.10	
			Delivery	4.02	
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	4.02	
10.04	2.01	0.10	5.00	0.10	

Key	RT	RT	Menu	Txn	Think
Time	Delay	Fence	Delay	Weight	Time
			New Order	44.93	
12.03	18.02	0.10	5.00	0.10	
			Payment	43.01	
12.05	3.01	0.10	5.00	0.10	
			Delivery	4.02	
5.02	2.01	0.10	5.00	0.10	
			Stock Level	4.02	
5.02	2.01	0.10	20.00	0.10	
			Order Status	4.02	
10.03	2.01	0.10	5.00	0.10	

Internet Information Server Registry Parameters

Windows Registry Editor Version 5.00

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

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Parameters]
"ListenBackLog"=dword:00000019
"DispatchEntries"=hex(7):4c,00,44,00,41,00,50,00,53,0,56,00,43,00,00,00,00,00
"PoolThreadLimit"=dword:000003fe
"ThreadTimeout"=dword:00015180
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\InetInfo\Performance]
"Library"="infcctrs.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:30,bb,ee,43,77,5b,c2,01,10,25,00,00,00,00,0,0
"WbemAdapFileTime"=hex:00,73,79,5b,bc,d4,c0,01
"WbemAdapFileSize"=dword:00002510
"WbemAdapStatus"=dword:00000000
```

World Wide Web Service Registry Parameters

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC]
"Type"=dword:00000020
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,00,3a,00,5c,00,5f,00,49,00,4e,0,4e,00,54,00,5c,00,53,00,\
79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,69,00,6e,00,65,00,74,00,73,\
00,72,00,76,00,5c,00,69,00,6e,00,65,00,74,00,69,00,6e,00,66,00,6e,00,2e,00,\
65,00,78,00,65,00,00,00
```

```
"DisplayName"="World Wide Web Publishing Service"
"DependOnService"=hex(7):49,00,49,00,53,00,41,00,44,0,4d,00,49,00,4e,00,00,00,\
00,00
"DependOnGroup"=hex(7):00,00
"ObjectName"="LocalSystem"
"Description"="Provides Web connectivity and administration through the Internet Information Services snap-in."
"FailureActions"=hex:ff,ff,ff,ff,80,3a,0e,00,90,3a,0e,00,03,00,00,00,98,3a,0e,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00
```

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

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

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters]
"MajorVersion"=dword:00000005
"MinorVersion"=dword:00000000
"InstallPath"="C:\WINNT\System32\inetsrv"
"CertMapList"="C:\WINNT\System32\inetsrv\iisrcmap.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\iisshelp,,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:de,61,7e,46,77,5b,c2,01,10,3d,00,00,00,00,0,0,0,0
"WbemAdapFileTime"=hex:00,73,79,5b,bc,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,00,01,00,00,00,02,00,80,14,00,ff,01,0f,00,01,01,00,00,00,00,00,01,00,00,\

```

```

00,00,02,00,70,00,04,00,00,00,00,00,18,00,fd,01,02,00,01,01,00,00,00,00,\

```

```

05,12,00,00,00,74,00,6f,00,00,00,1c,00,ff,01,0f,00,01,02,00,00,00,00,00,05,\

```

```

20,00,00,00,20,02,00,00,72,00,73,00,00,00,18,00,8d,01,02,00,01,01,00,00,00,\

```

```

00,00,05,0b,00,00,00,20,02,00,00,00,00,1c,00,fd,01,02,00,01,02,00,00,00,00,\

```

```

00,05,20,00,00,00,23,02,00,00,72,00,73,00,01,01,00,00,00,00,05,12,00,00,\
00,01,01,00,00,00,00,00,05,12,00,00,00

```

```

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

```

TPCC Application Registry Parameters

Windows Registry Editor Version 5.00

```

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\TPCC]
"Path"="C:\Inetpub\wwwroot\"
"NumberOfDeliveryThreads"=dword:00000005
"MaxConnections"=dword:00003e80
"MaxPendingDeliveries"=dword:000007d0
"DB_Protocol"="DBLIB"
"TxnMonitor"="COM"
"DbServer"="arizona_ip"

```

```

"DbName"="tpcc"
"DbUser"="sa"
"DbPassword"=""
"COM_SinglePool"="YES"

```

Server Registry

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
Class Name: <NO CLASS>
Last Write Time: 9/15/2004 - 1:34 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
.NET CLR Data
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:34 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
.NET CLR Data\Performance
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:59 PM

```

```

Value 0
Name: Open
Type: REG_SZ
Data: OpenPerformanceData

```

```

Value 1
Name: Collect
Type: REG_SZ
Data: CollectPerformanceData

```

```

Value 2
Name: Close
Type: REG_SZ
Data: ClosePerformanceData

```

```

Value 3
Name: Library
Type: REG_SZ
Data: netfxperf.dll

```

```

Value 4
Name: Counter Types
Type: REG_BINARY
Data:
00000000 36 00 35 00 35 00 33 00 - 36 00 00 00 36
00 35 00 6.5.5.3.6...6.5.
00000010 35 00 33 00 36 00 00 00 - 36 00 35 00 35
00 33 00 5.3.6...6.5.5.3.
00000020 36 00 00 00 36 00 35 00 - 35 00 33 00 36
00 00 00 6...6.5.5.3.6...
00000030 36 00 35 00 35 00 33 00 - 36 00 00 00 36
00 35 00 6.5.5.3.6...6.5.
35 00 33 00 36 00 00 00 - 00 00
5.3.6.....

```

Value 5

```

Name: Counter Names
Type: REG_BINARY
Data:
00000000 53 00 71 00 6c 00 43 00 - 6c 00 69 00 65
00 6e 00 S.q.l.C.l.i.e.n.
00000010 74 00 3a 00 20 00 43 00 - 75 00 72 00 72
00 65 00 t...C.u.r.r.e.
00000020 6e 00 74 00 20 00 23 00 - 20 00 70 00 6f
00 6f 00 n.t.#.p.o.o.
00000030 6c 00 65 00 64 00 20 00 - 61 00 6e 00 64
00 20 00 l.e.d.a.n.d.
00000040 6e 00 6f 00 6e 00 70 00 - 6f 00 6f 00 6c
00 65 00 n.o.n.p.o.o.l.e.
00000050 64 00 20 00 63 00 6f 00 - 6e 00 6e 00 65
00 63 00 d.c.o.n.n.e.c.
00000060 74 00 69 00 6f 00 6e 00 - 73 00 00 00 53
00 71 00 t.i.o.n.s...S.q.
00000070 6c 00 43 00 6c 00 69 00 - 65 00 6e 00 74
00 3a 00 l.C.l.i.e.n.t.:.
00000080 20 00 43 00 75 00 72 00 - 72 00 65 00 6e
00 74 00 .C.u.r.r.e.n.t.
00000090 20 00 23 00 20 00 70 00 - 6f 00 6f 00 6c
00 65 00 #.p.o.o.l.e.
000000a0 64 00 20 00 63 00 6f 00 - 6e 00 6e 00 65
00 63 00 d.c.o.n.n.e.c.
000000b0 74 00 69 00 6f 00 6e 00 - 73 00 00 00 53
00 71 00 t.i.o.n.s...S.q.
000000c0 6c 00 43 00 6c 00 69 00 - 65 00 6e 00 74
00 3a 00 l.C.l.i.e.n.t.:.
000000d0 20 00 43 00 75 00 72 00 - 72 00 65 00 6e
00 74 00 .C.u.r.r.e.n.t.
000000e0 20 00 23 00 20 00 63 00 - 6f 00 6e 00 6e
00 65 00 #.c.o.n.n.e.c.
000000f0 63 00 74 00 69 00 6f 00 - 6e 00 20 00 70
00 6f 00 c.t.i.o.n.p.o.
00000100 6f 00 6c 00 73 00 00 00 - 53 00 71 00 6c
00 43 00 o.l.s...S.q.l.C.
00000110 6c 00 69 00 65 00 6e 00 - 74 00 3a 00 20
00 50 00 l.i.e.n.t.:.P.
00000120 65 00 61 00 6b 00 20 00 - 23 00 20 00 70
00 6f 00 e.a.k.#.p.o.
00000130 6f 00 6c 00 65 00 64 00 - 20 00 63 00 6f
00 6e 00 o.l.e.d.c.o.n.
00000140 6e 00 65 00 63 00 74 00 - 69 00 6f 00 6e
00 73 00 n.e.c.t.i.o.n.s.
00000150 00 00 53 00 71 00 6c 00 - 43 00 6c 00 69
00 65 00 .S.q.l.C.l.i.e.
00000160 6e 00 74 00 3a 00 20 00 - 54 00 6f 00 74
00 61 00 n.t.:.T.o.t.a.
00000170 6c 00 20 00 23 00 20 00 - 66 00 61 00 69
00 6c 00 l.#.f.a.i.l.
00000180 65 00 64 00 20 00 63 00 - 6f 00 6e 00 6e
00 65 00 e.d.c.o.n.n.e.
00000190 63 00 74 00 73 00 00 00 - 53 00 71 00 6c
00 43 00 c.t.s...S.q.l.C.
000001a0 6c 00 69 00 65 00 6e 00 - 74 00 3a 00 20
00 54 00 l.i.e.n.t.:.T.
000001b0 6f 00 74 00 61 00 6c 00 - 20 00 23 00 20
00 66 00 o.t.a.l.#.f.
000001c0 61 00 69 00 6c 00 65 00 - 64 00 20 00 63
00 6f 00 a.i.l.e.d.c.o.
000001d0 6d 00 6d 00 61 00 6e 00 - 64 00 73 00 00
00 00 00 m.m.a.n.d.s....

```

```

Value 6
Name: PerfIniFile
Type: REG_SZ
Data: _dataperfcounters.ini

Value 7
Name: Last Counter
Type: REG_DWORD
Data: 0x86c

Value 8
Name: Last Help
Type: REG_DWORD
Data: 0x86d

Value 9
Name: First Counter
Type: REG_DWORD
Data: 0x860

Value 10
Name: First Help
Type: REG_DWORD
Data: 0x861

Value 11
Name: Object List
Type: REG_SZ
Data: 2144

Value 12
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 31 fb 4b 33 7d d0 9b df - 99 42 9d 7d bb
5f dd 48 10K3}D.ß.B.)»_ŸH

Value 13
Name: WbemAdapFileTime
Type: REG_BINARY
Data: b6 7b 9a 2c d9 db c3 01 -
¶{.,ÛŰÄ.

Value 14
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x8000

Value 15
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0xffffffffff

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
.NET CLR Networking
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:34 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
.NET CLR Networking\Performance
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:59 PM

Value 0
Name: Open
Type: REG_SZ
Data: OpenPerformanceData

Value 1
Name: Collect
Type: REG_SZ
Data: CollectPerformanceData

Value 2
Name: Close
Type: REG_SZ
Data: ClosePerformanceData

Value 3
Name: Library
Type: REG_SZ
Data: netfxperf.dll

Value 4
Name: Counter Types
Type: REG_BINARY
Data: 00000000 36 00 35 00 35 00 33 00 - 36 00 00 00 36
00 35 00 6.5.5.3.6...6.5.
00000010 37 00 39 00 32 00 00 00 - 36 00 35 00 37
00 39 00 7.9.2...6.5.7.9.
00000020 32 00 00 00 36 00 35 00 - 35 00 33 00 36
00 00 00 2...6.5.5.3.6...
36 00 35 00 35 00 33 00 - 36 00 00 00 00 00
6.5.5.3.6.....

Value 5
Name: Counter Names
Type: REG_BINARY
Data: 00000000 43 00 6f 00 6e 00 6e 00 - 65 00 63 00 74
00 69 00 C.o.n.n.e.c.t.i.
00000010 6f 00 6e 00 73 00 20 00 - 45 00 73 00 74
00 61 00 o.n.s. .E.s.t.a.
00000020 62 00 6c 00 69 00 73 00 - 68 00 65 00 64
00 00 00 b.l.i.s.h.e.d...
00000030 42 00 79 00 74 00 65 00 - 73 00 20 00 52
00 65 00 B.y.t.e.s. .R.e.
00000040 63 00 65 00 69 00 76 00 - 65 00 64 00 00
00 42 00 c.e.i.v.e.d...B.
00000050 79 00 74 00 65 00 73 00 - 20 00 53 00 65
00 6e 00 y.t.e.s. .S.e.n.
00000060 74 00 00 00 44 00 61 00 - 74 00 61 00 67
00 72 00 t...D.a.t.a.g.r.
00000070 61 00 6d 00 73 00 20 00 - 52 00 65 00 63
00 65 00 a.m.s. .R.e.c.e.
00000080 69 00 76 00 65 00 64 00 - 00 00 44 00 61
00 74 00 i.v.e.d...D.a.t.
00000090 61 00 67 00 72 00 61 00 - 6d 00 73 00 20
00 53 00 a.g.r.a.m.s. .S.

```

```

65 00 6e 00 74 00 00 00 - 00 00
e.n.t.....

Value 6
Name: PerfIniFile
Type: REG_SZ
Data: _Networkingperfcounters.ini

Value 7
Name: Last Counter
Type: REG_DWORD
Data: 0x878

Value 8
Name: Last Help
Type: REG_DWORD
Data: 0x879

Value 9
Name: First Counter
Type: REG_DWORD
Data: 0x86e

Value 10
Name: First Help
Type: REG_DWORD
Data: 0x86f

Value 11
Name: Object List
Type: REG_SZ
Data: 2158

Value 12
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 31 fb 4b 33 7d d0 9b df - 99 42 9d 7d bb
5f dd 48 10K3}D.ß.B.)»_ŸH

Value 13
Name: WbemAdapFileTime
Type: REG_BINARY
Data: b6 7b 9a 2c d9 db c3 01 -
¶{.,ÛŰÄ.

Value 14
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x8000

Value 15
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0xffffffffff

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
.NETFramework
Class Name: <NO CLASS>

```

Last Write Time: 1/15/2004 - 9:34 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
.NETFramework\Performance

Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM

Value 0
Name: Close
Type: REG_SZ
Data: CloseCtrs

Value 1
Name: Collect
Type: REG_SZ
Data: CollectCtrs

Value 2
Name: Open
Type: REG_SZ
Data: OpenCtrs

Value 3
Name: Library
Type: REG_SZ
Data: mscoree.dll

Value 4
Name: PerfIniFile
Type: REG_SZ
Data: corperfmonsymbols.ini

Value 5
Name: Last Counter
Type: REG_DWORD
Data: 0x928

Value 6
Name: Last Help
Type: REG_DWORD
Data: 0x929

Value 7
Name: First Counter
Type: REG_DWORD
Data: 0x87a

Value 8
Name: First Help
Type: REG_DWORD
Data: 0x87b

Value 9
Name: WbemAdapFileSignature
Type: REG_BINARY
Data:
00000000 4c 70 2a ea 1c 11 d1 5c - 17 6c 2c 27 6d
09 07 dd Lp*ê..Ñ\.\, 'm .ÿ

Value 10
Name: WbemAdapFileTime
Type: REG_BINARY

Data:
96 92 aa 2a d9 db c3 01 -
..**00Å.

Value 11
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x26000

Value 12
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Abiosdsk

Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 1
Name: Group
Type: REG_SZ
Data: Primary disk

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ACPI

Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: Boot Bus Extender

Value 2
Name: Start

Type: REG_DWORD
Data: 0

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Value 5
Name: DisplayName
Type: REG_SZ
Data: Microsoft ACPI Driver

Value 6
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ACPI.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ACPI\Enum

Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: ACPI_HAL\PNP0C08\0

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ACPIEC

Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: Boot Bus Extender

Value 2
Name: Start
Type: REG_DWORD

Data: 0x4

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x5

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\adpu160m
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3c

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\adpu160m\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\adpu160m\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\adpu320
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3c

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\adpu320\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\adpu320\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\afcnt
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\afcnt\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\afcnt\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AFD
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x2

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: \SystemRoot\System32\drivers\afd.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: AFD Networking Support Environment

Value 5
Name: Group
Type: REG_SZ
Data: TDI

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AFD\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 00Ÿ...
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\AFD\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_AFD\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ahal54x
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Type: REG_DWORD
Data: 0x1
Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x6

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ahal54x\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: LegacyAdapterDetection
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ahal54x\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 1
Type: REG_DWORD
Data: 0x1

Value 1
Name: 3
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\aic78u2
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

Type: REG_SZ
Data: SCSI miniport
Value 2
Name: Start
Type: REG_DWORD
Data: 0x4

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x34

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\aic78u2\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\aic78u2\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\aic78xx
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1e

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\aic78xx\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\aic78xx\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Alerter
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe

-k LocalService

Value 4
Name: DisplayName
Type: REG_SZ
Data: Alerter

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: LanmanWorkstation

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ

Value 7

Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\LocalService

Value 8
Name: Description
Type: REG_SZ
Data: Notifies selected users and computers of administrative alerts. If the service is stopped, programs that use administrative alerts will not receive them. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Alerter\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: AlertNames
Type: REG_MULTI_SZ
Data:

Value 1
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\alrsvc.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Alerter\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Alerter\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_ALERTER\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ALG
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x10

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\alg.exe

Value 4
Name: DisplayName
Type: REG_SZ
Data: Application Layer Gateway Service

Value 5
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\LocalService

Value 6
Name: Description
Type: REG_SZ
Data: Provides support for application level protocol plug-ins and enables network/protocol connectivity. If this service is disabled, any

services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ALG\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 ..~.....
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 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
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AliIde
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 1
Name: Group
Type: REG_SZ
Data: System Bus Extender
Value 2
Name: Start
Type: REG_DWORD
Data: 0x4
Value 3
Name: Tag
Type: REG_DWORD
Data: 0x4
Value 4

Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\amddiag
Class Name: <NO CLASS>
Last Write Time: 1/12/2004 - 1:02 AM
Value 0
Name: DiagIO
Type: REG_SZ
Data: TEST
Value 1
Name: Type
Type: REG_DWORD
Data: 0x1
Value 2
Name: Start
Type: REG_DWORD
Data: 0x1
Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\amddiag.sys
Value 5
Name: DisplayName
Type: REG_SZ
Data: AMD Diagnostic I/O Driver

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\amddiag\Security
Class Name: <NO CLASS>
Last Write Time: 1/28/2004 - 5:42 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 ..~.....
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....

00000060 20 02 00 00 00 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
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AppMgmt
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Description
Type: REG_SZ
Data: Processes installation, removal, and enumeration requests for Active Directory IntelliMirror group policy programs. If the service is disabled, users will be unable to install, remove, or enumerate any IntelliMirror programs. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 1
Name: DisplayName
Type: REG_SZ
Data: Application Management

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 4
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 5
Name: Start
Type: REG_DWORD
Data: 0x3

Value 6
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AppMgmt\Parameters

Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\appmgmts.dll

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AppMgmt\Security
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: Security
Type: REG_BINARY
Data:

00000000 01 00 14 80 a8 00 00 00 - b4 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 78 00 05 00 00 00 - 00 00 14 00 8d
00 02 00 .x.....
00000040 01 01 00 00 00 00 05 - 0b 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 18 00 - 8d 00 02 00 01
02 00 00
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 00
00 14 00#.....
00000080 9d 00 00 00 01 01 00 00 - 00 00 00 05 04
00 00 00
00000090 00 00 18 00 8d 00 00 00 - 01 02 00 00 00
00 00 05
000000a0 20 00 00 00 21 02 00 00 - 01 01 00 00 00
00 00 05 .!.....
000000b0 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AppMgmt\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_APPMGMT\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AsyncMac
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\asynmac.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: RAS Asynchronous Media Driver

Value 5
Name: Description
Type: REG_SZ
Data: RAS Asynchronous Media Driver

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\AsyncMac\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 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 00Ÿ...

00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\atapip
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

Value 2
Name: Start
Type: REG_DWORD
Data: 0

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x19

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Value 5
Name: DisplayName
Type: REG_SZ
Data: Standard IDE/ESDI Hard Disk
Controller

Value 6
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\atapip.sys

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\atapip\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM
Value 0
Name: LegacyDetection
Type: REG_DWORD
Data: 0x1

Value 1
Name: GhostSlave
Type: REG_MULTI_SZ

Data: SunDisk

Value 2
Name: UseCheckPowerForFlush
Type: REG_MULTI_SZ
Data: SAMSUNG WNR-31601A (1600MB)
SAMSUNG WNR-31601A (1.6GB)
IBM-DTCA-24090

TC60AA2A IBM-DTCA-24090

TC6IAA2A IBM-DPLA-25120

PL80AA2A IBM-DPLA-25120

PL8IAA2A IBM-DPLA-25120

PL8IAA4A IBM-DTCA-23240

TC50AA2A IBM-DTCA-23240

TC5IAA2A IBM-DPLA-24480

PL70AA2A IBM-DPLA-24480

PL7IAA2A

Value 3
Name: NoFlushDevice
Type: REG_MULTI_SZ
Data: QUANTUM LPS525A
SCR-730

Value 4
Name: PioOnlyDevice
Type: REG_MULTI_SZ
Data: Conner Peripherals 425MB -
CFS425A
MATSHITA CR-581
FX600S
CD-44E
QUANTUM TRB850A
QUANTUM MARVERICK 540A
MAXTOR MXT-540 AT
Maxtor 71260 AT
Maxtor 7850 AV
Maxtor 7540 AV
Maxtor 7213 AT
Maxtor 7345
Maxtor 7245 AT
Maxtor 7245
Maxtor 7211AU
Maxtor 7171 AT
CD-316E
SAMSUNG SCR-2430
CR-2801TE

Value 5
Name: NonRemovableMedia
Type: REG_MULTI_SZ
Data: Kingston Technology DataPak 340
SunDisk SDP5A-10
SunDisk SDCFB-10
SunDisk SDP3B-20

SunDisk SDP3B-175
SunDisk SDP5-2.5
Calluna Technology CT260MC
BN-S004AC-S 1.00
Calluna Technology CT520RM
Hitachi CV 5.1.1
ATA_FLASH
Mitsubishi ATA Card
LEXAR ATA_FLASH
Micron MTCF004A
Micron MTCF008A
SunDisk SDP3B-110
SunDisk SDCFB-4
BN-CAB-T
MEMORYSTICK
MEMORYSTICK 8M 8K

Value 6
Name: NoPowerDownDevice
Type: REG_MULTI_SZ
Data: RD-DRC001-M
CS-R37 0

Value 7
Name: AutoEjectZipDevice
Type: REG_MULTI_SZ
Data: IOMEGA ZIP 100 ATAPI
23.D IOMEGA ZIP 100 ATAPI
21.D IOMEGA ZIP 100 ATAPI
20.D IOMEGA ZIP 100 ATAPI
91.D IOMEGA ZIP 100 ATAPI
B.29 IOMEGA ZIP 100
B.22 IOMEGA ZIP 100

Value 8
Name: NeedIdentDevice
Type: REG_MULTI_SZ
Data: QUANTUM FIREBALL

Value 9
Name: DefaultPioAtapiDevice
Type: REG_MULTI_SZ
Data: TORISAN DVD-ROM DRD-N216
IDE-CD R/RW 2x2x24

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
atapi\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: PCI\IDE\IDEChannel\4&21637dbd&0&0

Value 1
Name: Count

Type: REG_DWORD
Data: 0x2

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x2

Value 3
Name: 1
Type: REG_SZ
Data: PCI\IDE\IDEChannel\4&21637dbd&0&1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Atdisk
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 1
Name: Group
Type: REG_SZ
Data: Primary disk

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ati2mpad
Class Name: <NO CLASS>
Last Write Time: 2/17/2004 - 4:42 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD

```

Data: 0

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ati2mpad.sys

Value 5
Name: Group
Type: REG_SZ
Data: Video

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ati2mpad\Device0
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM
Value 0
Name: MobilityVariant
Type: REG_DWORD
Data: 0

Value 1
Name: BlockWriteDisabled
Type: REG_DWORD
Data: 0x1

Value 2
Name: FastFillDisabled
Type: REG_DWORD
Data: 0

Value 3
Name: HDTVEnabled
Type: REG_DWORD
Data: 0

Value 4
Name: TimingSelection
Type: REG_DWORD
Data: 0

Value 5
Name: InstalledDisplayDrivers
Type: REG_MULTI_SZ
Data: ati2drad

Value 6
Name: VgaCompatible
Type: REG_DWORD
Data: 0

Value 7
Name: OpenGLICDDisabled
Type: REG_DWORD
Data: 0x1

```

```

Value 8
Name: CheckD3Enabled
Type: REG_DWORD
Data: 0x1

Value 9
Name: D3DDisabled
Type: REG_DWORD
Data: 0x1

Value 10
Name: USWCDisabled
Type: REG_DWORD
Data: 0x1

Value 11
Name: LoadSubSystemID
Type: REG_DWORD
Data: 0x1

Value 12
Name: DALRULE_NOTVANDLCDONCRT
Type: REG_DWORD
Data: 0x1

Value 13
Name: DALRULE_SELECTION_SCHEME
Type: REG_DWORD
Data: 0x1

Value 14
Name: DALRULE_NOFORCEBOOT
Type: REG_DWORD
Data: 0x1

Value 15
Name: DDLRProRegOptionPatchLcdSyncProblem
Type: REG_DWORD
Data: 0x1

Value 16
Name: DDLRProRegOptionPLLProblemNBlankDelay
Type: REG_DWORD
Data: 0x1

Value 17
Name: DALRestrictedModesBCD
Type: REG_BINARY
Data: 00000000 07 20 04 80 00 00 00 00 - 08 48 04 80 00
00 00 00 .....H.....
00000010 08 64 04 80 00 00 00 00 - 10 24 06 00 00
00 00 00 .d.....$.
00 00 00 00 00 24 00 00 -
.....$.

Value 18
Name: drv
Type: REG_SZ
Data: Ati2drad.dll

```

```

Value 19
Name: ReleaseVersion
Type: REG_SZ
Data: J5.30.9.1.1-Microsoft

Value 20
Name: DALRULE_CRTSUPPORTSALLMODES
Type: REG_DWORD
Data: 0x1

Value 21
Name: CapabilityOverride
Type: REG_DWORD
Data: 0x8

Value 22
Name: Device Description
Type: REG_SZ
Data: RAGE XL PCI Family (Microsoft
Corporation)

Value 23
Name: Acceleration.Level
Type: REG_DWORD
Data: 0x4

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ati2mpad\Security
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM
Value 0
Name: Security
Type: REG_BINARY
Data: 00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....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\
ati2mpad\Video

```

```

Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM
Value 0
  Name: Service
  Type: REG_SZ
  Data: ati2mpad

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Atmarpc
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
  Name: Type
  Type: REG_DWORD
  Data: 0x1

Value 1
  Name: Start
  Type: REG_DWORD
  Data: 0x3

Value 2
  Name: ErrorControl
  Type: REG_DWORD
  Data: 0x1

Value 3
  Name: Tag
  Type: REG_DWORD
  Data: 0xa

Value 4
  Name: ImagePath
  Type: REG_EXPAND_SZ
  Data: system32\DRIVERS\atmarpc.sys

Value 5
  Name: DisplayName
  Type: REG_SZ
  Data: ATM ARP Client Protocol

Value 6
  Name: Group
  Type: REG_SZ
  Data: NDIS

Value 7
  Name: DependOnService
  Type: REG_MULTI_SZ
  Data: Tcpip

Value 8
  Name: DependOnGroup
  Type: REG_MULTI_SZ
  Data:

Value 9
  Name: Description
  Type: REG_SZ
  Data: ATM ARP Client Protocol

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Atmarpc\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 ˘.....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
AudioSrv
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
  Name: DependOnService
  Type: REG_MULTI_SZ
  Data: PlugPlay
  RpcSs

Value 1
  Name: Description
  Type: REG_SZ
  Data: Manages audio devices for Windows-
based programs. If this service is stopped, audio
devices and effects will not function properly. If
this service is disabled, any services that
explicitly depend on it will fail to start.

Value 2
  Name: DisplayName
  Type: REG_SZ
  Data: Windows Audio

Value 3
  Name: ErrorControl
  Type: REG_DWORD
  Data: 0x1

```

```

Value 4
  Name: Group
  Type: REG_SZ
  Data: AudioGroup

Value 5
  Name: ImagePath
  Type: REG_EXPAND_SZ
  Data: %SystemRoot%\System32\svchost.exe
-k netsvcs

Value 6
  Name: ObjectName
  Type: REG_SZ
  Data: LocalSystem

Value 7
  Name: Start
  Type: REG_DWORD
  Data: 0x4

Value 8
  Name: Type
  Type: REG_DWORD
  Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
AudioSrv\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
  Name: ServiceDll
  Type: REG_EXPAND_SZ
  Data: %SystemRoot%\System32\audiosrv.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
audstub
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name: Type
  Type: REG_DWORD
  Data: 0x1

Value 1
  Name: Start
  Type: REG_DWORD
  Data: 0x3

Value 2
  Name: ErrorControl
  Type: REG_DWORD
  Data: 0x1

Value 3
  Name: ImagePath
  Type: REG_EXPAND_SZ
  Data: system32\DRIVERS\audstub.sys

```

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Audio Stub Driver

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\audstub\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:15 AM

Value 0
 Name: Security
 Type: REG_BINARY
 Data:
 00000000 01 00 14 80 00 00 00 - 9c 00 00 00 14
 00 00 00
 00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
 80 14 00 0.....
 00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
 00 00 00 y.....
 00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
 01 02 00 ..`.....y...
 00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
 00 18 00
 00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
 00 00 00 y.....
 00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
 01 00 00
 00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
 01 02 00y...
 00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\audstub\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\MEDIA\MS_MMCM

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x5

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x5

Value 3
 Name: 1
 Type: REG_SZ

Data: Root\MEDIA\MS_MMDRV

Value 4
 Name: 2
 Type: REG_SZ
 Data: Root\MEDIA\MS_MMMCI

Value 5
 Name: 3
 Type: REG_SZ
 Data: Root\MEDIA\MS_MMVCD

Value 6
 Name: 4
 Type: REG_SZ
 Data: Root\MEDIA\MS_MMVID

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Autocat
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:05 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Autocat\Performance
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:18 AM

Value 0
 Name: PerfIniFile
 Type: REG_SZ
 Data: acatCtr.ini

Value 1
 Name: Last Counter
 Type: REG_DWORD
 Data: 0xcd0

Value 2
 Name: Last Help
 Type: REG_DWORD
 Data: 0xcd1

Value 3
 Name: First Counter
 Type: REG_DWORD
 Data: 0xcb6

Value 4
 Name: First Help
 Type: REG_DWORD
 Data: 0xcb7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\BattC
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: MofImagePath
 Type: REG_EXPAND_SZ

Data: System32\Drivers\battc.sys

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Beep
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: Base

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x2

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Beep\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_BEEP\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\BITS
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD

Data: 0x20

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

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\svchost.exe

-k netsvcs

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Background Intelligent Transfer Service

Value 5
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: RpcSs

Value 6
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 7
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 8
 Name: Description
 Type: REG_SZ
 Data: Transfers data between clients and servers in the background. If BITS is disabled, features such as Windows Update will not work correctly.

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\BITS\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: ServiceDll
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\qmgr.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\BITS\Security
 Class Name: <NO CLASS>

Last Write Time: 1/15/2004 - 9:36 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 00Ÿ...
 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 00Ÿ...
 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\BITS\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_BITS\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Browser
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x20

Value 1
 Name: Start
 Type: REG_DWORD

Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\svchost.exe

-k netsvcs

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Computer Browser

Value 5
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: LanmanWorkstation
 LanmanServer

Value 6
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 7
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 8
 Name: Description
 Type: REG_SZ
 Data: Maintains an updated list of computers on the network and supplies this list to computers designated as browsers. If this service is stopped, this list will not be updated or maintained. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Browser\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: IsDomainMaster
 Type: REG_SZ
 Data: FALSE

Value 1
 Name: MaintainServerList
 Type: REG_SZ
 Data: Yes

Value 2
 Name: ServiceDll
 Type: REG_EXPAND_SZ

Data: %SystemRoot%\System32\browser.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Browser\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00 ..
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Browser\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_BROWSER\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cbidf2k
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0

Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x19

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cbidf2k\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cbidf2k\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 1
Type: REG_DWORD
Data: 0x1

Value 1
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cd20xrnt
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

Value 2

Name: Start
Type: REG_DWORD
Data: 0x4

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3a

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cd20xrnt\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cd20xrnt\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 1
Type: REG_DWORD
Data: 0x11

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Cdfs
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: DependOnGroup
Type: REG_MULTI_SZ
Data: SCSI CDROM Class

Value 1
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 2
Name: Group
Type: REG_SZ
Data: File system

Value 3
Name: Start
Type: REG_DWORD
Data: 0x4

Value 4
Name: Type
Type: REG_DWORD
Data: 0x2

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Cdfs\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_CDFS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Cdrom
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DependOnGroup
Type: REG_MULTI_SZ
Data: SCSI miniport

Value 1
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 2
Name: Group
Type: REG_SZ
Data: SCSI CDROM Class

Value 3
Name: Start
Type: REG_DWORD
Data: 0x1

Value 4
Name: Tag
Type: REG_DWORD
Data: 0x2

Value 5
Name: Type
Type: REG_DWORD
Data: 0x1

Value 6
Name: DisplayName
Type: REG_SZ
Data: CD-ROM Driver

Value 7
Name: ImagePath

Type: REG_EXPAND_SZ
Data: system32\DRIVERS\cdrom.sys

Value 8
Name: AutoRun
Type: REG_DWORD
Data: 0x1

Value 9
Name: AutoRunAlwaysDisable
Type: REG_MULTI_SZ
Data: NEC MBR-7
NEC MBR-7.4
PIONEER CHANGR DRM-1804X
PIONEER CD-ROM DRM-6324X
PIONEER CD-ROM DRM-624X
TORISAN CD-ROM CDR_C36

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Cdrom\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: IDE\CdRomTEAC_CD-224E
9.9A____\5&2dc47f1c&0&0.0.0

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Changer
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 1
Name: Group
Type: REG_SZ
Data: Filter

Value 2
Name: Start
Type: REG_DWORD
Data: 0x1

Value 3

Name: Tag
Type: REG_DWORD
Data: 0x5

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Cisvc
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS

Value 1
Name: Description
Type: REG_SZ
Data: Indexes contents and properties of files on local and remote computers; provides rapid access to files through flexible querying language.

Value 2
Name: DisplayName
Type: REG_SZ
Data: Indexing Service

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\cisvc.exe

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Start
Type: REG_DWORD
Data: 0x4

Value 7
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ClipSrv
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: NetDDE

Value 1
Name: Description
Type: REG_SZ
Data: Enables ClipBook Viewer to store information and share it with remote computers. If the service is stopped, ClipBook Viewer will not be able to share information with remote computers. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 2
Name: DisplayName
Type: REG_SZ
Data: ClipBook

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\clipsrv.exe

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Start
Type: REG_DWORD
Data: 0x4

Value 7
Name: Type
Type: REG_DWORD
Data: 0x10

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ClipSrv\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
00 02 00 ..`.....

```

```

00000040 01 01 00 00 00 00 05 - 0b 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 18 00 - 8d 00 02 00 01
02 00 00 .....
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 00
00 14 00 .... .#.....
00000080 9d 00 00 00 01 01 00 00 - 00 00 00 05 04
00 00 00 .....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ClusDisk
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

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

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x7

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ClusDisk.sys

Value 5
Name: DisplayName
Type: REG_SZ
Data: Cluster Disk Driver

Value 6
Name: Group
Type: REG_SZ
Data: Filter

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ClusDisk\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CmdIde
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: System Bus Extender

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x4

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\COMSysApp
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

```

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x10

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\dlhhost.exe
 /Processid:{02D4B3F1-FD88-11D1-960D-00805FC79235}

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: COM+ System Application

Value 5
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: rpcss
 eventsystem

Value 6
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 7
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 8
 Name: Description
 Type: REG_SZ
 Data: Manages the configuration and tracking of Component Object Model (COM)+-based components. If the service is stopped, most COM+-based components will not function properly. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 9
 Name: FailureActions
 Type: REG_BINARY
 Data:
 00000000 1e 00 00 00 00 00 00 00 - 00 00 00 00 03
 00 00 00
 00000010 53 00 65 00 01 00 00 00 - e8 03 00 00 01
 00 00 00 S.e.....ê.....
 88 13 00 00 00 00 00 00 - e8 03 00 00
ê...

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\COMSysApp\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:34 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 00Ÿ.....
 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\COMSysApp\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_COMSYSAPP\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ContentFilter
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ContentFilter\Linkage
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: Bind
 Type: REG_SZ
 Data: \Dummy

Value 1
 Name: Export
 Type: REG_SZ
 Data: \Dummy

Value 2
 Name: Route
 Type: REG_SZ
 Data: \Dummy

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ContentFilter\Performance
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:07 AM

Value 0
 Name: Close
 Type: REG_SZ
 Data: DoneFILTERPerformanceData

Value 1
 Name: Collect
 Type: REG_SZ
 Data: CollectFILTERPerformanceData

Value 2
 Name: Open
 Type: REG_SZ
 Data: InitializeFILTERPerformanceData

Value 3
 Name: Library
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\query.dll

Value 4
 Name: PerfIniFile
 Type: REG_SZ
 Data: perffilt.ini

Value 5
 Name: Last Counter
 Type: REG_DWORD
 Data: 0x948

Value 6
 Name: Last Help
 Type: REG_DWORD
 Data: 0x949

Value 7
 Name: First Counter

Type: REG_DWORD
Data: 0x942

Value 8
Name: First Help
Type: REG_DWORD
Data: 0x943

Value 9
Name: Object List
Type: REG_SZ
Data: 2370

Value 10
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 71 96 a7 5d c0 f9 40 03 - ea 70 b7 f8 99 42 ae a0 q.}\$!Àù@.êp·ø.B®

Value 11
Name: WbemAdapFileTime
Type: REG_BINARY
Data: 00 60 a9 0f c6 f2 c2 01 - .`°.ËðÃ.

Value 12
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x14c000

Value 13
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ContentIndex
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ContentIndex\Linkage
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: Bind
Type: REG_SZ
Data: \Dummy

Value 1
Name: Export
Type: REG_SZ
Data: \Dummy

Value 2
Name: Route
Type: REG_SZ

Data: \Dummy

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ContentIndex\Performance
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM

Value 0
Name: Close
Type: REG_SZ
Data: DoneCIPerformanceData

Value 1
Name: Collect
Type: REG_SZ
Data: CollectCIPerformanceData

Value 2
Name: Open
Type: REG_SZ
Data: InitializeCIPerformanceData

Value 3
Name: Library
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\query.dll

Value 4
Name: PerfIniFile
Type: REG_SZ
Data: perfci.ini

Value 5
Name: Last Counter
Type: REG_DWORD
Data: 0x940

Value 6
Name: Last Help
Type: REG_DWORD
Data: 0x941

Value 7
Name: First Counter
Type: REG_DWORD
Data: 0x92a

Value 8
Name: First Help
Type: REG_DWORD
Data: 0x92b

Value 9
Name: Object List
Type: REG_SZ
Data: 2346

Value 10
Name: WbemAdapFileSignature
Type: REG_BINARY
Data:

00000000 71 96 a7 5d c0 f9 40 03 - ea 70 b7 f8 99 42 ae a0 q.}\$!Àù@.êp·ø.B®

Value 11
Name: WbemAdapFileTime
Type: REG_BINARY
Data: 00 60 a9 0f c6 f2 c2 01 - .`°.ËðÃ.

Value 12
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x14c000

Value 13
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Cpqarray
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x100

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Cpqarray\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Cpqarray\Parameters\PnpInterface
Class Name: <NO CLASS>

Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: 2
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: 5
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cpqarry2
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: SCSI miniport

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

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x3e

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cpqarry2\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\cpqarry2\Parameters\PnpInterface
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: 5
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CPQCISSE

Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0xc8

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\CPQCISSE.sys

Value 5
 Name: Group
 Type: REG_SZ
 Data: SCSI Class

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CPQCISSE\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 3/8/2004 - 4:19 PM

Value 0
 Name: PollingInterval
 Type: REG_DWORD
 Data: 0x1e

Value 1
 Name: MaxNumberLogEntries
 Type: REG_DWORD
 Data: 0x20

Value 2
 Name: NtEventLoggingEnabled
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: IML_LoggingEnabled
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CPQCISSE\Security
 Class Name: <NO CLASS>

Last Write Time: 3/8/2004 - 4:19 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 ..̣.....
 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 ..̣.....
 00000080 01 02 00 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CPQCISSE\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data:
 SCSI\Other&Ven_COMPAQ&Prod_SCSI_COMMUNICATE&Rev_CISS\
 5&208597a6&0&000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CPQCISSE\Logs
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ArrayControllerCount
 Type: REG_DWORD
 Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
CPQCISSE\Logs\CPQCISSE001
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: FiFoStartIndex
Type: REG_DWORD
Data: 0

Value 1
Name: CurrentFiFoIndex
Type: REG_DWORD
Data: 0

Value 2
Name: EventCount
Type: REG_DWORD
Data: 0

Value 3
Name: WrapBoundary
Type: REG_DWORD
Data: 0x20

Value 4
Name: ScsiPortNumber
Type: REG_DWORD
Data: 0x2

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
cpqcissm
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

Value 2
Name: Start
Type: REG_DWORD
Data: 0

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x103

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Value 5
Name: ImagePath

Type: REG_EXPAND_SZ
Data: system32\DRIVERS\cpqcissm.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
cpqcissm\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
cpqcissm\Parameters\Device
Class Name: <NO CLASS>
Last Write Time: 3/8/2004 - 4:19 PM

Value 0
Name: NumberOfRequests
Type: REG_DWORD
Data: 0x80

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
cpqcissm\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
cpqcissm\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data:

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
cpqfcalm
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD

Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x2c

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
cpqfcalm\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
cpqfcalm\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 2
Type: REG_DWORD
Data: 0x1

Value 1
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
CpuSpy
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD


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Data: 0x1
Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data:
\??\C:\WINDOWS\system32\drivers\CpuSpy.sys
Value 4
Name: DisplayName
Type: REG_SZ
Data: CpuSpy Driver
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CpuSpy\Security
Class Name: <NO CLASS>
Last Write Time: 1/28/2004 - 10:37 AM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..`.....Ÿ...
00000040 01 01 00 00 00 00 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\CpuSpy\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_CPUSPY\0000
Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2

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Name: NextInstance
Type: REG_DWORD
Data: 0x1
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\crcdisk
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 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: 0x4
Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\crcdisk.sys
Value 5
Name: DisplayName
Type: REG_SZ
Data: CRC Disk Filter Driver
Value 6
Name: Group
Type: REG_SZ
Data: Pnp Filter
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\crcdisk\Security
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..`.....Ÿ...

```

```

00000040 01 01 00 00 00 00 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\crcdisk\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_CRCDISK\0000
Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CryptSvc
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs
Value 1
Name: Description
Type: REG_SZ
Data: Provides three management
services: Catalog Database Service, which confirms
the signatures of Windows files; Protected Root
Service, which adds and removes Trusted Root
Certification Authority certificates from this
computer; and Key Service, which helps enroll this
computer for certificates. If this service is
stopped, these management services will not function
properly. If this service is disabled, any services
that explicitly depend on it will fail to start.
Value 2
Name: DisplayName

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Type:          REG_SZ
Data:          Cryptographic Services

Value 3
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 4
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 5
Name:          ObjectName
Type:          REG_SZ
Data:          LocalSystem

Value 6
Name:          Start
Type:          REG_DWORD
Data:          0x4

Value 7
Name:          Type
Type:          REG_DWORD
Data:          0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
CryptSvc\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          ServiceDll
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\System32\cryptsvc.dll

Value 1
Name:          ServiceMain
Type:          REG_SZ
Data:          CryptServiceMain

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
CryptSvc\Security
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          Security
Type:          REG_BINARY
Data:          00 00 0e 00 01
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
CryptSvc\Enum
Class Name:    <NO CLASS>

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Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          Root\LEGACY_CRYPTSVC\0000

Value 1
Name:          Count
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dac2w2k
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          Group
Type:          REG_SZ
Data:          SCSI miniport

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

Value 2
Name:          Tag
Type:          REG_DWORD
Data:          0x20

Value 3
Name:          Type
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dac2w2k\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dac2w2k\Parameters\PnpInterface
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          2
Type:          REG_DWORD
Data:          0x1

Value 1
Name:          5
Type:          REG_DWORD
Data:          0x1

```

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Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dac960nt
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 1
Name:          Group
Type:          REG_SZ
Data:          SCSI miniport

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

Value 3
Name:          Tag
Type:          REG_DWORD
Data:          0x20

Value 4
Name:          Type
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dac960nt\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dac960nt\Parameters\PnpInterface
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          2
Type:          REG_DWORD
Data:          0x1

Value 1
Name:          5
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dellcerc
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          ErrorControl
Type:          REG_DWORD

```

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Data:          0x1
Value 1
Name:          Group
Type:          REG_SZ
Data:          SCSI miniport
Value 2
Name:          Start
Type:          REG_DWORD
Data:          0x4
Value 3
Name:          Tag
Type:          REG_DWORD
Data:          0x2b
Value 4
Name:          Type
Type:          REG_DWORD
Data:          0x1
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dellcerc\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dellcerc\Parameters\PnpInterface
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          5
Type:          REG_DWORD
Data:          0x1
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dfs
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x10
Value 1
Name:          Start
Type:          REG_DWORD
Data:          0x3
Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1
Value 3
Name:          ImagePath
Type:          REG_EXPAND_SZ

```

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Data:          %SystemRoot%\system32\Dfssvc.exe
Value 4
Name:          DisplayName
Type:          REG_SZ
Data:          Distributed File System
Value 5
Name:          Group
Type:          REG_SZ
Data:          Dfs
Value 6
Name:          DependOnService
Type:          REG_MULTI_SZ
Data:          LanmanWorkstation
LanmanServer
DfsDriver
Mup
SamSS
Value 7
Name:          DependOnGroup
Type:          REG_MULTI_SZ
Data:
Value 8
Name:          ObjectName
Type:          REG_SZ
Data:          LocalSystem
Value 9
Name:          Description
Type:          REG_SZ
Data:          Integrates disparate file shares
into a single, logical namespace and manages these
logical volumes distributed across a local or wide
area network. If this service is stopped, users will
be unable to access file shares. If this service is
disabled, any services that explicitly depend on it
will fail to start.
Value 10
Name:          DfsVersion
Type:          REG_DWORD
Data:          0x565
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dfs\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:46 PM
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dfs\Security
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
01 02 00 .....
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....y.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 y.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dfs\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          Root\LEGACY_DFS\0000
Value 1
Name:          Count
Type:          REG_DWORD
Data:          0x1
Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
DfsDriver
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x2
Value 1
Name:          Start
Type:          REG_DWORD
Data:          0
Value 2
Name:          ErrorControl
Type:          REG_DWORD

```

```

Data:          0x1

Value 3
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          system32\drivers\Dfs.sys

Value 4
Name:          DisplayName
Type:          REG_SZ
Data:          DfsDriver

Value 5
Name:          Group
Type:          REG_SZ
Data:          filter

Value 6
Name:          Description
Type:          REG_SZ
Data:          Integrates disparate file shares
into a single, logical namespace and manages these
logical volumes distributed across a local or wide
area network. If this service is stopped, users will
be unable to access file shares. If this service is
disabled, any services that explicitly depend on it
will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
DfsDriver\Security
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 12 00 00 00 00
00 18 00  .....
00000050  ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00  Ÿ.....
00000060  20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00  .....
00000070  00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00  .Ÿ.....
00000080  01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00  .....#...
00000090  01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00  .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
DfsDriver\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          Root\LEGACY_DFSDRIVER\0000

Value 1
Name:          Count
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x20

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

Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 3
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\system32\svchost.exe
-k NetworkService

Value 4
Name:          DisplayName
Type:          REG_SZ
Data:          DHCP Client

Value 5
Name:          Group
Type:          REG_SZ
Data:          TDI

Value 6
Name:          DependOnService
Type:          REG_MULTI_SZ
Data:          Afd

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```

Value 7
Name:          DependOnGroup
Type:          REG_MULTI_SZ
Data:

Value 8
Name:          ObjectName
Type:          REG_SZ
Data:          NT AUTHORITY\NetworkService

Value 9
Name:          Description
Type:          REG_SZ
Data:          Registers and updates IP addresses
and DNS records for this computer. If this service is
stopped, this computer will not receive dynamic IP
addresses and DNS updates. If this service is
disabled, any services that explicitly depend on it
will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Configurations
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM
Value 0
Name:          Options
Type:          REG_BINARY
Data:
00000000  32 00 00 00 00 00 00 00 - 04 00 00 00 00
00 00 00  2.....
00000010  ff ff ff 7f 00 00 00 00 - 01 00 00 00 00
00 00 00  ŸŸŸ.....
00000020  04 00 00 00 00 00 00 00 - ff ff ff 7f 00
00 00 00  .....ŸŸŸ.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Linkage
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Linkage\Disabled
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 11:01 PM
Value 0
Name:          ServiceDll
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\System32\dhcpcsvc.dll

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters\Options
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters\Options\1
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: KeyType
Type: REG_DWORD
Data: 0x7

Value 1
Name: RegLocation
Type: REG_MULTI_SZ
Data:
SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\In
terfaces?\DhcpSubnetMaskOpt

SYSTEM\CurrentControlSet\Services?\Parameters\Tcpip\
DhcpSubnetMaskOpt

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters\Options\15
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: KeyType
Type: REG_DWORD
Data: 0x1

Value 1
Name: RegLocation
Type: REG_MULTI_SZ
Data:
SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\In
terfaces?\DhcpDomain

SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Dh
cpDomain

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters\Options\3
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: KeyType
Type: REG_DWORD
Data: 0x7

Value 1
Name: RegLocation
Type: REG_MULTI_SZ

Data:
SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\In
terfaces?\DhcpDefaultGateway

SYSTEM\CurrentControlSet\Services?\Parameters\Tcpip\
DhcpDefaultGateway

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters\Options\44
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: KeyType
Type: REG_DWORD
Data: 0x1

Value 1
Name: RegLocation
Type: REG_MULTI_SZ
Data:
SYSTEM\CurrentControlSet\Services\NetBT\Parameters\In
terfaces\Tcpip_?\DhcpNameServerList

SYSTEM\CurrentControlSet\Services\NetBT\Adapters?\Dh
cpNameServer

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters\Options\46
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: KeyType
Type: REG_DWORD
Data: 0x4

Value 1
Name: RegLocation
Type: REG_SZ
Data:
SYSTEM\CurrentControlSet\Services\NetBT\Parameters\Dh
cpNodeType

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters\Options\47
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: KeyType
Type: REG_DWORD
Data: 0x1

Value 1
Name: RegLocation
Type: REG_SZ
Data:
SYSTEM\CurrentControlSet\Services\NetBT\Parameters\Dh
cpScopeID

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters\Options\6
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: KeyType
Type: REG_DWORD
Data: 0x1

Value 1
Name: RegLocation
Type: REG_MULTI_SZ
Data:
SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\In
terfaces?\DhcpNameServer

SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Dh
cpNameServer

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Parameters\Options\DhcpNetbiosOptions
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: KeyType
Type: REG_DWORD
Data: 0x4

Value 1
Name: OptionId
Type: REG_DWORD
Data: 0x1

Value 2
Name: VendorType
Type: REG_DWORD
Data: 0x1

Value 3
Name: RegLocation
Type: REG_MULTI_SZ
Data:
SYSTEM\CurrentControlSet\Services\NetBT\Parameters\In
terfaces\Tcpip_?\DhcpNetbiosOptions

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 a8 00 00 00 - b4 00 00 00 14
00 00 00^.....

```

00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 y.....
00000030 02 00 78 00 05 00 00 00 - 00 00 14 00 8d
01 02 00 ..x.....
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 02 00 01
02 00 00 #.....y.....
00000070 00 00 00 05 20 00 00 00 - 2c 02 00 00 00
00 18 00 .....
00000080 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 y.....
00000090 20 02 00 00 00 00 14 00 - fd 01 02 00 01
01 00 00 .....y.....
000000a0 00 00 00 05 12 00 00 00 - 01 01 00 00 00
00 00 05 .....
000000b0 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Dhcp\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_DHCP\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Disk
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DependOnGroup
Type: REG_MULTI_SZ
Data: SCSI miniport

```

```

Value 1
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: Group

```

```

Type: REG_SZ
Data: SCSI Class

```

```

Value 3
Name: Start
Type: REG_DWORD
Data: 0

```

```

Value 4
Name: Tag
Type: REG_DWORD
Data: 0x2

```

```

Value 5
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Value 6
Name: DisplayName
Type: REG_SZ
Data: Disk Driver

```

```

Value 7
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\disk.sys

```

```

Value 8
Name: AutoRunAlwaysDisable
Type: REG_MULTI_SZ
Data: Brother RemovableDisk(U)

```

```

Value 9
Name: TimeoutValue
Type: REG_DWORD
Data: 0x3c

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Disk\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: SCSI\Disk&Ven_COMPAQ&Prod_LOGICAL_VOLUME&Rev_2.58\5&2
08597a6&0&040

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dmadmin
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs
PlugPlay
DmServer

```

```

Value 1
Name: Type
Type: REG_DWORD
Data: 0x20

```

```

Value 2
Name: Start
Type: REG_DWORD
Data: 0x3

```

```

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\dmadmin.exe
/com

```

```

Value 5
Name: DisplayName
Type: REG_SZ
Data: Logical Disk Manager
Administrative Service

```

```

Value 6
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

```

```

Value 7
Name: Description
Type: REG_SZ
Data: Configures hard disk drives and
volumes. The service only runs for configuration
processes and then stops.

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dmadmin\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EnableDynamicConversionFor1394
Type: REG_DWORD
Data: 0

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dmdadmin\Security
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 a8 00 00 00 - b4 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 78 00 05 00 00 00 - 00 00 14 00 fd
01 02 00 .x.....Ÿ...
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 00 00 18 00 70 00 00 00 - 01 02 00 00 00
00 00 05 ...p.....
000000a0 20 00 00 00 27 02 00 00 - 01 01 00 00 00
00 00 05 ...'.....
000000b0 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dmdadmin\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_DMADMIN\0000
Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dmboot
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

```

```

Name: Type
Type: REG_DWORD
Data: 0x1
Value 1
Name: Start
Type: REG_DWORD
Data: 0x4
Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 3
Name: Group
Type: REG_SZ
Data: Filter
Value 4
Name: Tag
Type: REG_DWORD
Data: 0xb
Value 5
Name: ImagePath
Type: REG_EXPAND_SZ
Data: System32\drivers\dmboot.sys
Value 6
Name: VolumeRecoveryNeeded
Type: REG_DWORD
Data: 0

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dmboot\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_DMBOOT\0000
Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dmio
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 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: Group
Type: REG_SZ
Data: System Bus Extender
Value 4
Name: Tag
Type: REG_DWORD
Data: 0xd
Value 5
Name: ImagePath
Type: REG_EXPAND_SZ
Data: System32\drivers\dmio.sys
Value 6
Name: DisplayName
Type: REG_SZ
Data: Logical Disk Manager Driver

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dmio\Boot Info
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: Boot ID
Type: REG_SZ
Data: 225109c1-3e7d-11d8-961c-
806e6f6e6963

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
dmio\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\dmio\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance

```

Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dmload
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 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: Group
Type: REG_SZ
Data: System Bus Extender

Value 4
Name: Tag
Type: REG_DWORD
Data: 0xc

Value 5
Name: ImagePath
Type: REG_EXPAND_SZ
Data: System32\drivers\dmload.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dmload\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_DMLOAD\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dmserver
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs
PlugPlay

Value 1
Name: Type
Type: REG_DWORD
Data: 0x20

Value 2
Name: Start
Type: REG_DWORD
Data: 0x2

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k netsvcs

Value 5
Name: DisplayName
Type: REG_SZ
Data: Logical Disk Manager

Value 6
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 7
Name: Description
Type: REG_SZ
Data: Detects and monitors new hard disk drives and sends disk volume information to Logical Disk Manager Administrative Service for configuration. If this service is stopped, dynamic disk status and configuration information may become out of date. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dmserver\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ

Data: %SystemRoot%\System32\dmserver.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dmserver\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00 ..
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dmserver\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_DMSERVER\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dnscache
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

Name: Type
Type: REG_DWORD
Data: 0x20

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

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k NetworkService

Value 4
Name: DisplayName
Type: REG_SZ
Data: DNS Client

Value 5
Name: Group
Type: REG_SZ
Data: TDI

Value 6
Name: DependOnService
Type: REG_MULTI_SZ
Data: Tcpip

Value 7
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 8
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\NetworkService

Value 9
Name: Description
Type: REG_SZ
Data: Resolves and caches Domain Name System (DNS) names for this computer. If this service is stopped, this computer will not be able to resolve DNS names and locate Active Directory domain controllers. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dnscache\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0

Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\dnrsrslvr.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dnscache\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 a8 00 00 00 - b4 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 78 00 05 00 00 00 - 00 00 14 00 8d
01 02 00 ..x.....
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 02 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 2c 02 00 00 00
00 18 00
00000080 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000090 20 02 00 00 00 00 14 00 - fd 01 02 00 01
01 00 00Ÿ.....
000000a0 00 00 00 05 12 00 00 00 - 01 01 00 00 00
00 00 05
000000b0 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dnscache\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_DNSCACHE\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dpti2o
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3c

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dpti2o\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\dpti2o\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ERSvc
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs

Value 1
Name: Description
Type: REG_SZ
Data: Collects, stores, and reports unexpected application crashes to Microsoft. If this

service is stopped, then Error Reporting will occur only for kernel faults and some types of user mode faults. If this service is disabled, any services that explicitly depend on it will not start.

Value 2
 Name: DisplayName
 Type: REG_SZ
 Data: Error Reporting Service

Value 3
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\svchost.exe
 -k WinErr

Value 5
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 6
 Name: Start
 Type: REG_DWORD
 Data: 0x4

Value 7
 Name: Type
 Type: REG_DWORD
 Data: 0x20

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ERSvc\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: ServiceDll
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\ersvc.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ERSvc\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: Security
 Type: REG_BINARY
 Data:
 00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
 00 00 00
 00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
 80 14 00 0.....
 00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
 00 00 00 ý.....

00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
 01 02 00 ..`.....ý...
 00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
 00 18 00
 00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
 00 00 00 ý.....
 00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
 01 00 00
 00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
 01 02 00 ..`.....ý...
 00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 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\ERSvc\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_ERSVC\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog
 Class Name: <NO CLASS>
 Last Write Time: 2/17/2004 - 4:48 PM

Value 0
 Name: Description
 Type: REG_SZ
 Data: Enables event log messages issued by Windows-based programs and components to be viewed in Event Viewer. This service cannot be stopped.

Value 1
 Name: DisplayName
 Type: REG_SZ
 Data: Event Log

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Group

Type: REG_SZ
 Data: Event log

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\services.exe

Value 5
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 6
 Name: PlugPlayServiceType
 Type: REG_DWORD
 Data: 0x3

Value 7
 Name: Start
 Type: REG_DWORD
 Data: 0x2

Value 8
 Name: Type
 Type: REG_DWORD
 Data: 0x20

Value 9
 Name: ComputerName
 Type: REG_SZ
 Data: ARIZONA

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:21 AM

Value 0
 Name: DisplayNameFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\els.dll

Value 1
 Name: DisplayNameID
 Type: REG_DWORD
 Data: 0x100

Value 2
 Name: File
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\config\AppEvent.Evt

Value 3
 Name: MaxSize
 Type: REG_DWORD
 Data: 0x1000000

Value 4
 Name: PrimaryModule
 Type: REG_SZ

Data: Application

Value 5
 Name: Retention
 Type: REG_DWORD
 Data: 0

Value 6
 Name: CustomSD
 Type: REG_SZ
 Data: O:BAG:SYD;(D;;0xf0007;;;AN)(D;;0xf0007;;;BG)(A;;0xf0007;;;SY)(A;;0x7;;;BA)(A;;0x7;;;SO)(A;;0x3;;;IU)(A;;0x3;;;SU)(A;;0x3;;;S-1-5-3)

Value 7
 Name: Sources
 Type: REG_MULTI_SZ
 Data: WSH
 WMIAdapter
 WmdmPmsN
 WinMgmt
 Winlogon
 Windows Product Activation
 Windows 3.1 Migration
 WebClient
 VSS
 VBRuntime
 Userinit
 Userenv
 UploadM
 TrustMonitor
 Tlntsvr
 SysmonLog
 SQLSERVERAGENT
 SQLFTHNDLR
 SQLCTR
 SpoolerCtrs
 Software Installation
 ScIgtNfy
 SceSrv
 SceCli
 saFrslv
 SAFrDms
 Remote Assistance
 PerfProc
 PerfOS
 PerfNet
 Perfmon
 Perflib
 PerfDisk
 Perfctrs
 PassportManager
 Offline Files
 Oakley
 ntbackup
 Network Optional Components
 MSSQLServerAgent
 MSSQLServerADHelper
 MSSQLSERVER/MSDE
 MSSQLSERVER
 MssCi
 MsiInstaller

MSDTC Client
 MSDTC
 mmsrvc
 Microsoft Search
 Microsoft H.323 Telephony Service

Provider
 LoadPerf
 LicenseService
 HelpSvc
 Folder Redirection
 File Deployment
 EventSystem
 EventCreate
 ESENT
 DSReplicationProvider
 DrWatson
 DiskQuota
 DataTransformationServices
 crypt32
 COM+
 Ci
 Chkdsk
 CertEnterprisePolicy
 AutoEnrollment
 Autochk
 Application Management
 Application Hang
 Application Error
 apphelp
 .NET Runtime
 Application

Value 8
 Name: RestrictGuestAccess
 Type: REG_DWORD
 Data: 0x1

Value 9
 Name: <NO NAME>
 Type: REG_SZ
 Data: mmsrvc

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\.NET Runtime
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:34 PM

Value 0
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Value 1
 Name: EventMessageFile
 Type: REG_SZ
 Data: C:\WINDOWS\system32\mscoree.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\apphelp
 Class Name: <NO CLASS>

Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\apphelp.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Application
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: CategoryCount
 Type: REG_DWORD
 Data: 0x7

Value 1
 Name: CategoryMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\eventlog.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Application Error
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\faultrep.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Application Hang
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\faultrep.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Application Management

Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\apppmgmts.dll

Value 1
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\kernel32.dll

Value 2
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Autochk
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\winlogon.exe

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\AutoEnrollment
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\pautoenr.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\CertEnterprisePolicy
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\certpdef.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD

Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Chkdsk
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\ulib.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Ci
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\query.dll

Value 1
 Name: CategoryMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\query.dll

Value 2
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Value 3
 Name: CategoryCount
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\COM+
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:34 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\COMRes.dll

Value 1
 Name: CategoryMessageFile
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\COMRes.dll

Value 2
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ

Data: C:\WINDOWS\system32\COMRes.dll

Value 3
 Name: TypeSupported
 Type: REG_DWORD
 Data: 0x7

Value 4
 Name: CategoryCount
 Type: REG_DWORD
 Data: 0x75

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\crypt32
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\crypt32.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\DataTransformationServices
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:07 AM
 Value 0
 Name: EventMessageFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL
 Server\80\Tools\Binn\Resources\1033\dtspkg.RLL

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\DiskQuota
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM
 Value 0
 Name: EventMessageFile
 Type: REG_SZ
 Data: %SystemRoot%\System32\diskquota.dll

Value 1
 Name: TypesSupported
 Type: REG_SZ
 Data: 0x00000007

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\DrWatson
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\drwtsn32.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\DSReplicationProvider
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\replprov.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\ESENT
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:59 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\ESENT.dll

Value 1
Name: CategoryMessageFile
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\ESENT.dll

Value 2
Name: CategoryCount
Type: REG_DWORD
Data: 0x10

Value 3
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\EventCreate
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\EventCreate.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 2
Name: CustomSource
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\EventSystem
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:34 PM
Value 0

Name: CategoryCount
Type: REG_DWORD
Data: 0x6

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 2
Name: CategoryMessageFile
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\COMRes.dll

Value 3
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\COMRes.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\File Deployment
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\fddeploy.dll

Value 1
Name: ParameterMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\kernel32.dll

Value 2
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Folder Redirection
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0

Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\fddeploy.dll

Value 1
Name: ParameterMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\kernel32.dll

Value 2
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\HelpSvc
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0

Name: EventMessageFile
Type: REG_SZ
Data: C:\WINDOWS\PCHealth\HelpCtr\Binaries\HCAAppRes.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x1f

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\LicenseService
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 3:32 PM
Value 0

Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 1
Name: EventMessageFile
Type: REG_SZ
Data: %SystemRoot%\System32\llsrpc.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\LoadPerf
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0

Name: EventMessageFile
Type: REG_EXPAND_SZ

Data: %SystemRoot%\System32\loadperf.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Microsoft H.323 Telephony
Service Provider
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM
Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\WINDOWS\System32\h323.tsp

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Microsoft Search
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:05 AM
Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\Program Files\Common
Files\System\MSSearch\bin\mssmsg.dll

Value 1
Name: CategoryMessageFile
Type: REG_SZ
Data: C:\Program Files\Common
Files\System\MSSearch\bin\mssmsg.dll

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

Value 3
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\mnmsrvc
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: EventMessageFile
Type: REG_SZ
Data: %SystemRoot%\System32\nmvtmsg.dll

Value 1
Name: TypeSupported
Type: REG_BINARY
Data: 07 00 00 00
....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\MSDTC
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:34 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\COMRES.DLL

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 2
Name: CategoryMessageFile
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\COMRES.DLL

Value 3
Name: CategoryCount
Type: REG_DWORD
Data: 0xf

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\MSDTC Client
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:34 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\COMRES.DLL

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 2
Name: CategoryMessageFile
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\COMRES.DLL

Value 3
Name: CategoryCount
Type: REG_DWORD
Data: 0xf

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\MsiInstaller

Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\WINDOWS\system32\msi.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Mssc
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:06 AM
Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\Program Files\Common
Files\System\MSSearch\bin\tquery.dll

Value 1
Name: CategoryMessageFile
Type: REG_SZ
Data: C:\Program Files\Common
Files\System\MSSearch\bin\tquery.dll

Value 2
Name: CategoryCount
Type: REG_DWORD
Data: 0x1

Value 3
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\MSSQLSERVER
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM
Value 0
Name: CategoryCount
Type: REG_DWORD
Data: 0x8

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0xff

Value 2
Name: EventMessageFile
Type: REG_SZ
Data:

C:\PROGRA-1\MICROS-1\MSSQL\BINN\RESOUR-1\1033\SQLLEV7
0.RLL

Value 3
 Name: CategoryMessageFile
 Type: REG_SZ
 Data: C:\PROGRA-1\MICROS-1\MSSQL\BINN\RESOUR-1\1033\SQLDEVN70.RLL

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\MSSQLSERVER\MSDE
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\AppPatch\acres.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\MSSQLServerADHelper
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:07 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: C:\Program Files\Microsoft SQL Server\80\Tools\Binn\Resources\1033\sqldevn.rll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\MSSQLServerAgent
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:18 AM

Value 0
 Name: EventMessageFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\80\COM\DW15.exe

Value 1
 Name: TypeSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\Network Optional Components
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\Setup\netoc.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\ntbackup
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\ntbackup.exe

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\Oakley
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: EventMessageFile
 Type: REG_SZ
 Data: %SystemRoot%\System32\oakley.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\Offline Files
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\cscui.dll

Value 1
 Name: TypesSupported
 Type: REG_SZ
 Data: 0x00000007

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\PassportManager

Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\msppmalr.dll

Value 1
 Name: CategoryMessageFile
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\msppmalr.dll

Value 2
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Value 3
 Name: CategoryCount
 Type: REG_DWORD
 Data: 0x2

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\Perfctrs
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\perfctrs.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\PerfDisk
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\perfdisk.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Application\Perflib
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ

Data: %SystemRoot%\System32\prflbmsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Perfmon
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\perfmon.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\PerfNet
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\perfnct.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\PerfOS
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\perfOS.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\PerfProc
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile

Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\perfproc.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Remote Assistance
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\WINDOWS\system32\racpld1g.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\SAFrms
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\WINDOWS\system32\safrdm.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\safrslv
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\WINDOWS\system32\safrslv.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x1f

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\SceCli
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0

Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\scecli.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\SceSrv
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\scesrv.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\ScgNtfy
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\scgntfy.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Software Installation
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\appmgr.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\SpoolerCtrls
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\winspool.drv

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\SQLCTR
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM

Value 0
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 1
Name: EventMessageFile
Type: REG_SZ
Data:

C:\PROGRA-1\MICROS-1\MSSQL\BINN\RESOUR-1\1033\SQLLEV7
0.RLL

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\SQLFTHNDLR
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM

Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\80\COM\sqlfth75.dll

Value 1
Name: CategoryMessageFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\80\COM\sqlfth75.dll

Value 2
Name: CategoryCount
Type: REG_DWORD
Data: 0

Value 3
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\SQLSERVERAGENT
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM

Value 0

Name: CategoryCount
Type: REG_DWORD
Data: 0x4

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 2
Name: EventMessageFile
Type: REG_SZ
Data: C:\PROGRA-1\MICROS-1\MSSQL\BINN\SQLAGENT.DLL

Value 3
Name: CategoryMessageFile
Type: REG_SZ
Data: C:\PROGRA-1\MICROS-1\MSSQL\BINN\SQLAGENT.DLL

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\SysmonLog
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\smlogsvc.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Tlntsvr
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\WINDOWS\system32\tlntsvr.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x1f

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\TrustMonitor
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ

Data:
C:\WINDOWS\system32\wbem\adstatus\trustmon.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\UploadM
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: EventMessageFile
Type: REG_SZ
Data: C:\WINDOWS\PCHealth\UploadLB\Binaries\UploadM.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x1f

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Userenv
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\userenv.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\Userinit
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\userinit.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Application\VBRuntime
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM

Value 0
 Name: EventMessageFile
 Type: REG_SZ
 Data: C:\WINDOWS\system32\msvbvm60.dll

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

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\VSS
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Value 1
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\VSSVC.EXE

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\WebClient
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Windows 3.1 Migration
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\advapi32.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Windows Product Activation
 Class Name: <NO CLASS>

Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\dpcdll.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\Winlogon
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\winlogon.exe

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\WinMgmt
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\WBEM\WinMgmtR.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\WmdmPmSN
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\mspmensv.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\WMIAdapter
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\WBEM\WMIApRes.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Application\WSH
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\wshevt.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x1f

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: DisplayNameFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\els.dll

Value 1
 Name: DisplayNameID
 Type: REG_DWORD
 Data: 0x101

Value 2
 Name: File
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\config\SecEvent.Evt

Value 3
 Name: MaxSize
 Type: REG_DWORD
 Data: 0x1000000

Value 4
 Name: PrimaryModule
 Type: REG_SZ
 Data: Security

Value 5
Name: Retention
Type: REG_DWORD
Data: 0

Value 6
Name: CustomSD
Type: REG_SZ
Data: O:BAG;SYD:(D;;0xf0007;;;AN)(D;;0xf0007;;;BG)(A;;0xf0005;;;SY)(A;;0x5;;;BA)

Value 7
Name: Sources
Type: REG_MULTI_SZ
Data: Spooler
Security Account Manager
SC Manager
NetDDE Object
LSA
DS
Security

Value 8
Name: RestrictGuestAccess
Type: REG_DWORD
Data: 0x1

Value 9
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 8d
01 02 00 ..
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Security\DS
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0

Name: ParameterMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\MsObjs.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Security\DS\ObjectNames
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: Directory Service Object
Type: REG_DWORD
Data: 0x1e00

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Security\LSA
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ParameterMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\MsObjs.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Security\LSA\ObjectNames
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: PolicyObject
Type: REG_DWORD
Data: 0x1600

Value 1
Name: SecretObject
Type: REG_DWORD
Data: 0x1610

Value 2
Name: TrustedDomainObject
Type: REG_DWORD
Data: 0x1620

Value 3
Name: UserAccountObject
Type: REG_DWORD
Data: 0x1630

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Security\NetDDE Object
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ParameterMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\MsObjs.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Security\NetDDE Object\ObjectNames
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: DDE Share
Type: REG_DWORD
Data: 0x1d00

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Security\SC Manager
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ParameterMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\MsObjs.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Security\SC Manager\ObjectNames
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: SC_MANAGER Object
Type: REG_DWORD
Data: 0x1c00

Value 1
Name: SERVICE Object
Type: REG_DWORD
Data: 0x1c10

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\Security\Security
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: CategoryCount
Type: REG_DWORD
Data: 0x9

Value 1
Name: CategoryMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\MsAuditE.dll

Value 2
Name: GuidMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\NtMarta.dll

Value 3
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\MsAuditE.dll

Value 4
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\MsObjs.dll

Value 5
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x1c

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Security\Security\ObjectNames
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: Channel
 Type: REG_DWORD
 Data: 0x1400

Value 1
 Name: Desktop
 Type: REG_DWORD
 Data: 0x1a0

Value 2
 Name: Device
 Type: REG_DWORD
 Data: 0x1100

Value 3
 Name: Directory
 Type: REG_DWORD
 Data: 0x1110

Value 4
 Name: Event
 Type: REG_DWORD
 Data: 0x1120

Value 5
 Name: EventPair
 Type: REG_DWORD
 Data: 0x1130

Value 6
 Name: File
 Type: REG_DWORD
 Data: 0x1140

Value 7
 Name: IoCompletion
 Type: REG_DWORD
 Data: 0x1300

Value 8
 Name: Job
 Type: REG_DWORD
 Data: 0x1410

Value 9

Name: Key
 Type: REG_DWORD
 Data: 0x1150

Value 10
 Name: MailSlot
 Type: REG_DWORD
 Data: 0x1140

Value 11
 Name: Mutant
 Type: REG_DWORD
 Data: 0x1160

Value 12
 Name: NamedPipe
 Type: REG_DWORD
 Data: 0x1140

Value 13
 Name: Port
 Type: REG_DWORD
 Data: 0x1170

Value 14
 Name: Process
 Type: REG_DWORD
 Data: 0x1180

Value 15
 Name: Profile
 Type: REG_DWORD
 Data: 0x1190

Value 16
 Name: Section
 Type: REG_DWORD
 Data: 0x11a0

Value 17
 Name: Semaphore
 Type: REG_DWORD
 Data: 0x11b0

Value 18
 Name: SymbolicLink
 Type: REG_DWORD
 Data: 0x11c0

Value 19
 Name: Thread
 Type: REG_DWORD
 Data: 0x11d0

Value 20
 Name: Timer
 Type: REG_DWORD
 Data: 0x11e0

Value 21
 Name: Token
 Type: REG_DWORD
 Data: 0x11f0

Value 22
 Name: Type
 Type: REG_DWORD
 Data: 0x1200

Value 23
 Name: WaitablePort
 Type: REG_DWORD
 Data: 0x1170

Value 24
 Name: WindowStation
 Type: REG_DWORD
 Data: 0x1a00

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Security\Security Account Manager
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\MsObjs.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Security\Security Account
 Manager\ObjectNames
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: SAM_ALIAS
 Type: REG_DWORD
 Data: 0x1530

Value 1
 Name: SAM_DOMAIN
 Type: REG_DWORD
 Data: 0x1510

Value 2
 Name: SAM_GROUP
 Type: REG_DWORD
 Data: 0x1520

Value 3
 Name: SAM_SERVER
 Type: REG_DWORD
 Data: 0x1500

Value 4
 Name: SAM_USER
 Type: REG_DWORD
 Data: 0x1540

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\Security\Spooler

Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\MsObjs.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\Security\Spooler\ObjectNames
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: Document
 Type: REG_DWORD
 Data: 0x1b20

Value 1
 Name: Printer
 Type: REG_DWORD
 Data: 0x1b10

Value 2
 Name: Server
 Type: REG_DWORD
 Data: 0x1b00

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 4:11 AM
 Value 0
 Name: DisplayNameFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\els.dll

Value 1
 Name: DisplayNameID
 Type: REG_DWORD
 Data: 0x102

Value 2
 Name: File
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\config\SysEvent.Evt

Value 3
 Name: MaxSize
 Type: REG_DWORD
 Data: 0x1000000

Value 4
 Name: PrimaryModule
 Type: REG_SZ
 Data: System

Value 5
 Name: Retention
 Type: REG_DWORD

Data: 0

Value 6
 Name: CustomSD
 Type: REG_SZ
 Data: 0:BAG:SYD:(D;;0xf0007;;;AN)(D;;0xf0007;;;BG)(A;;0xf0007;;;SY)(A;;0x7;;;BA)(A;;0x5;;;SO)(A;;0x1;;;IU)(A;;0x1;;;SU)(A;;0x1;;;S-1-5-3)(A;;0x2;;;LS)(A;;0x2;;;NS)

Value 7
 Name: Sources
 Type: REG_MULTI_SZ
 Data: WZCSVC
 Workstation
 WMIxWDM
 WLBS
 WinHttpAutoProxySvc
 Windows Script Host
 Windows File Protection
 Win32k
 Wd
 W32Time
 Volume Shadow Copy Service Task
 VolSnap
 Virtual Disk Service
 viaide
 VgaSave
 vga
 VDS Dynamic Provider 1.0
 VDS Basic Provider 1.0
 USER32
 UPS
 ultra
 udfs
 toside
 TermServSessDir
 TermServJet
 TermService
 TermServDevices
 TermDD
 tdi
 TCPMon
 Tcpip
 System Error
 sym_u3
 sym_hi
 symmpi
 symc8xx
 symc810
 StillImage
 Srv
 Software Restriction Policy
 sndblst
 Simbad
 SideBySide
 sfloppy
 Setup
 Service Control Manager
 Server
 serial
 scsiport
 Schedule

Schannel
 SCardSvr
 Save Dump
 SAM
 Removable Storage Service
 RemoteAccess
 redbook
 Rdbss
 RasMan
 RasAuto
 ql2300
 ql2200
 ql2100
 ql1280
 ql1240
 ql12160
 ql10wnt
 ql1080
 q57w2k
 Processor
 Print
 PptpMiniport
 PolicyAgent
 PlugPlayManager
 perc2
 pcmcia
 pciide
 pci
 partmgr
 parport
 OSPFmib
 OSPF
 null
 ntfs
 npfs
 Nla
 nfrd960
 Netlogon
 NetDDE
 NetBT
 NetBIOS
 NdisWan
 ndis
 Mup
 msfs
 msadlib
 MrxSmb
 MRxDAV
 mraid35x
 mouclass
 Modem
 LsaSrv
 lp6nds35
 LmHosts
 LDMS
 LDM
 Kerberos
 KDC
 kbdclass
 isapnp
 IPXSAP
 IPXCP
 ipsraidn

IPSec
 IPRouterManager
 IPRIIP2
 IPNATHLP
 IPMGH
 IPBOOTP
 intelide
 iirsp
 IGMpv2
 i8042prt
 i2omp
 i2omgmt
 Http
 hpt3xx
 hpqcissd
 hpqcissb
 hpn
 ftdisk
 fs_rec
 flpydisk
 Fips
 fdc
 fastfat
 eventlog
 efs
 dpti2o
 Dnscache
 Dnsapi
 dmio
 dmboot
 Distributed Link Tracking Server
 Distributed Link Tracking Client
 disk
 Dhcp
 DfsSvc
 DfsDriver
 dellcerc
 DCOM
 dac960nt
 dac2w2k
 cryptsvc
 cpqfcalm
 cpqcissm
 CPQCISSE
 cpqarray2
 cpqarray
 cmdide
 changer
 cdrom
 Cdm
 cdifs
 cd20xrnt
 cbidf2k
 Browser
 BITS
 beep
 Atmarpc
 ati2mpad
 atdisk
 atapi
 AsyncMac
 Application Popup
 ami0nt

aliide
 Alerter
 aic78xx
 aic78u2
 afcnt
 adpu320
 adpu160m
 acpiec
 acpi
 abiosdsk
 System

Value 8
 Name: RestrictGuestAccess
 Type: REG_DWORD
 Data: 0x1

Value 9
 Name: EventMessageFile
 Type: REG_SZ
 Data: %systemroot%\system32\stisvc.exe

Value 10
 Name: TypesSupported
 Type: REG_BINARY
 Data: 07 00 00 00

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\abiosdsk
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\acpi
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\acpi.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\acpiec
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\acpiec.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\adpu160m
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\adpu320
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\afcnt
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported

Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\aic78u2
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\aic78xx
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\alerter
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netmsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\aliide
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\AliIde.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ami0nt
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Application Popu
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ntdll.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\AsyncMac
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\mprmsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x1f

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\atapi
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ

Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\atdisk
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ati2mpad
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\drivers\ati2mpad.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Atmarpc
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\beep
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\BITS
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 1
Name: CategoryCount
Type: REG_DWORD
Data: 0x1

Value 2
Name: CategoryMessageFile
Type: REG_SZ
Data: C:\WINDOWS\system32\qmgr.dll

Value 3
Name: EventMessageFile
Type: REG_SZ
Data: C:\WINDOWS\system32\qmgr.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Browser
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\cbidf2k
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\cd20xrnt
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\cdfs
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Cdm
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data:

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\cdrom
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\changer
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\cmdide
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\Cmndide.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\cpqarray
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\cpqarray2
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1

Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\CPQCISSE
 Class Name: <NO CLASS>
 Last Write Time: 3/8/2004 - 4:19 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\drivers\cpqcisse.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\cpqcissm
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\cpqfcalm
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\cryptsvc
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\cryptsvc.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\dac2w2k
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\dac960nt
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\DCOM
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\kernel132.dll

Value 2
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\dellicerc

Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\DfsDriver
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\DfsSvc
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Dhcp
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\dhcpcsvc.dll

Value 1
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\kernel132.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\disk
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Distributed Link Tracking Client
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Distributed Link Tracking Server
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\dmboot
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\Drivers\dmboot.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\dmio
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\Syste
m32\Drivers\dmio.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Dnsapi
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: ParameterMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\kernel32.dll

Value 1
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 2
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Dnscache
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\dpti2o
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0

Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\efs
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\lsasrv.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\eventlog
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\fastfat
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\fdc
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\fdc.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\Fips
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\Drivers\fips.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\flpydisk
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\flpydisk.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\fs_rec
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\ftdisk
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\FtDisk.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\hpn
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\hpcissb
Class Name: <NO CLASS>
Last Write Time: 1/17/2004 - 3:10 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\Drivers\HPQCISSB.SYS

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\hpcissd
Class Name: <NO CLASS>
Last Write Time: 1/17/2004 - 3:11 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\Drivers\HPQCISSD.SYS

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\hpt3xx
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\HttP
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 1
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\i2omgmt
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\i2omp
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\i8042prt
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:15 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\Syste
 m32\drivers\i8042prt.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\IGMPv2
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\igmpv2.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\iirs
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\intelide
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0

Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\Syste
 m32\Drivers\IntelIde.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\IPBOOTP
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\ipbootp.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\IPMG
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rtm.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\IPNATHLP
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\ipnathlp.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\IPRIP2

Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\iprip2.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\IPRouterManager
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\mprmsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\IPSec
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\ipsraidn
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\IPXCP
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\mprmsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\IPXSAP
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\mprmsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\isapnp
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\Syste
m32\drivers\isapnp.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\kbdclass
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\Syste
m32\drivers\kbdclass.sys

Value 1

Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\KDC
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\kdcsvc.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Kerberos
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\kerberos.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\LDMS
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\dmadmin.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\LDMS
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\dmserver.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\LmHosts
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\lp6nds35
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\LsaSrv
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 1
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\lsasrv.dll

Value 2
Name: CategoryMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\lsasrv.dll

Value 3
Name: CategoryCount
Type: REG_DWORD
Data: 0x4

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Modem
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data:
 %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\Modem.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\mouclass
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:15 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data:
 %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\drivers\mouclass.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\mraid3x
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\MRXDAV
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\MrxSmb
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data:
 %SystemRoot%\System32\netevent.dll;%SystemRoot%\System32\iologmsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Value 2
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\kernel32.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\msadlib
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\msfs
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Mup
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\ndis
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\NdisWan
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\mprmsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x1f

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\NetBIOS
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\iologmsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\NetBT
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\NetDDE
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netdde.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x1f

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Netlogon
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: ParameterMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\kernel32.dll

Value 1
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netmsg.dll

Value 2
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Nfrd960
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Nla
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\npfs
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ntfs
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\null
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ

Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\OSPF
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ospf.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\OSPFmib
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ospfmib.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\parport
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\ParPort.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\partmgr
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\pci
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\Syste
m32\Drivers\Pci.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\pciide
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\Syste
m32\Drivers\PciIde.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\pcmcia
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\Syste
m32\Drivers\Pcmcia.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\perc2
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\PlugPlayManager
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\umpnmgm.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\PolicyAgent
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\polagent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\PptpMiniport
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD

Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Print
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\LocalSpl.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Processor
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\Syste
m32\drivers\processr.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\q57w2k
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll;%SystemRoot%\Syste
m32\drivers\q57xp32.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ql1080
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ

Data: %SystemRoot%\System32\IoLogMsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ql10wnt
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ql12160
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ql1240
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ql1280
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile

Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ql2100
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ql2200
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\ql2300
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\RasAuto
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0

Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\mprmsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x1f

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\RasMan
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\mprmsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x1f

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Rdbss
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\redbook
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\drivers\redbook.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\RemoteAccess

Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\mprmsg.dll

Value 1
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\iassvcs.dll

Value 2
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x1f

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Removable Storage Service
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\ntmsevt

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\SAM
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\samsrv.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Save Dump
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\SaveDump.exe

Value 1
 Name: TypesSupported
 Type: REG_DWORD

Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\SCardSvr
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\SCardSvr.exe

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Schannel
 Class Name: <NO CLASS>
 Last Write Time: 1/16/2004 - 10:00 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\lsasrv.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Schedule
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\kernel32.dll

Value 2
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\scsiport
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile

Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\serial
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:15 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\drivers\serial.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Server
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Service Control Manager
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netevent.dll

Value 1
 Name: ParameterMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\kernel32.dll

Value 2
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Setup
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\syssetup.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\sfloppy
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\SideBySide
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\sxs.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Simbad
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\sndblst
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Software Restriction Policy
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ntdll.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Srv
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\StillImage
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\wiaservc.dll
Value 1
Name: TypesSupported
Type: REG_DWORD

Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\sync810
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\sync8xx
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\sympm
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll
Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\sym_hi
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll
Value 1
Name: TypesSupported

Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\sym_u3
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\System
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: CategoryCount
Type: REG_DWORD
Data: 0x7

Value 1
Name: CategoryMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\eventlog.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\System Error
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\faultrep.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\Fcpip
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netevent.dll

Value 1

Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\TCPPmon
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 1
Name: EventMessageFile
Type: REG_SZ
Data: %SystemRoot%\System32\tcpmon.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\tdi
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\TermDD
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ntdll.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\TermServDD
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ntdll.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\TermServDevices
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\wlnotify.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\TermService
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 1
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\termsrv.dll;%SystemRoot%\System32\ntdll.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\TermServJet
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 1
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\tssdjet.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\TermServSessDir
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Value 1
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\tssdis.exe

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Eventlog\System\toside
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile

Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\TosIde.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\udfs
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\ultra
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\UPS
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netmsg.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\USER32
Class Name: <NO CLASS>

Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\user32.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\VDS Basic Provider 1.0
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\vdsbas.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\VDS Dynamic Provider 1.0
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\vdsdyndr.dll

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\vga
Class Name: <NO CLASS>
Last Write Time: 2/17/2004 - 4:45 PM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\drivers\vgapnp.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\VgaSave
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\vga.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\viaide
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\ViaIde.sys

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\viaide
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\ViaIde.sys

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\Virtual Disk Service
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\vds.exe

Value 1
Name: TypesSupported
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Eventlog\System\VolSnap
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: EventMessageFile
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\VolSnap.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Volume Shadow Copy Service Task
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:33 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\Cluster\VSSTask.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\W32Time
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\w32time.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Wd
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\Drivers\wd.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Win32k
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0

Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\win32k.sys

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Windows File Protection
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\sfc_os.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Windows Script Host
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\wshext.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x18

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\WinHttpAutoProxySvc
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: winhttp.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\WLBS
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\drivers\wlbs.sys;%SystemRoot%\System32\netevent.dll;%SystemRoot%\System32\netcfgx.dll;%SystemRoot%\System32\wbem\nlbmprov.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\WMIxWDM
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\IoLogMsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\Workstation
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\netmsg.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Eventlog\System\WZCSVC
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: EventMessageFile
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\wzcsvc.dll

Value 1
 Name: TypesSupported
 Type: REG_DWORD
 Data: 0x7

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventSystem
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x20
Value 1
Name: Start
Type: REG_DWORD
Data: 0x3
Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\svchost.exe -k
netsvcs
Value 4
Name: DisplayName
Type: REG_SZ
Data: COM+ Event System
Value 5
Name: Group
Type: REG_SZ
Data: Network
Value 6
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS
Value 7
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:
Value 8
Name: ObjectName
Type: REG_SZ
Data: LocalSystem
Value 9
Name: Description
Type: REG_SZ
Data: Supports System Event Notification
Service (SENS), which provides automatic distribution
of events to subscribing Component Object Model (COM)
components. If the service is stopped, SENS will
close and will not be able to provide logon and
logoff notifications. If this service is disabled,
any services that explicitly depend on it will fail
to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventSystem\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:34 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\es.dll
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
EventSystem\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 7c 00 00 00 - 88 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 4c 00 03 00 00 00 - 00 00 14 00 9d
01 02 00 ..L.....
00000040 01 01 00 00 00 00 05 - 0b 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 18 00 - 8d 00 02 00 01
02 00 00
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 01
01 00 00#.
00000080 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\
EventSystem\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_EVENTSYSTEM\0000
Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Fastfat
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 1
Name: Group
Type: REG_SZ
Data: Boot file system
Value 2
Name: Start
Type: REG_DWORD
Data: 0x4
Value 3
Name: Type
Type: REG_DWORD
Data: 0x2
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Fastfat\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_FASTFAT\0000
Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Fdc
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 1
Name: Group
Type: REG_SZ
Data: System Bus Extender

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x5

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 5
 Name: SetupDone
 Type: REG_DWORD
 Data: 0x1

Value 6
 Name: DisplayName
 Type: REG_SZ
 Data: Floppy Disk Controller Driver

Value 7
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\fdc.sys

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Fdc\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: ACPI\PNP0700\5&1c430410&0

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Fips
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: Primary disk

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x2

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 5
 Name: DisplayName

Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Fips\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_FIPS\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Flydisk
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: Primary disk

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x2

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 5
 Name: DisplayName

Type: REG_SZ
 Data: Floppy Disk Driver

Value 6
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\flpydisk.sys

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Flydisk\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: FDC\GENERIC_FLOPPY_DRIVE\6&2f72e85f&0&0

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Fs_Rec
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Group
 Type: REG_SZ
 Data: Boot file system

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Type
 Type: REG_DWORD
 Data: 0x8

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Fs_Rec\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0


```

Name: 0
Type: REG_SZ
Data: Root\LEGACY_FS_REC\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ftdisk
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: System Bus Extender

Value 2
Name: Start
Type: REG_DWORD
Data: 0

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x9

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Value 5
Name: DisplayName
Type: REG_SZ
Data: Volume Manager Driver

Value 6
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ftdisk.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ftdisk\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0

```

```

Type: REG_SZ
Data: Root\ftdisk\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Gpc
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\msgpc.sys

Value 5
Name: DisplayName
Type: REG_SZ
Data: Generic Packet Classifier

Value 6
Name: Group
Type: REG_SZ
Data: PNP_TDI

Value 7
Name: Description
Type: REG_SZ
Data: Generic Packet Classifier

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Gpc\Parameters

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```

Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Gpc\Parameters\Winsock
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: HelperDllName
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\wshqos.dll

Value 1
Name: MaxSockAddrLength
Type: REG_DWORD
Data: 0x10

Value 2
Name: MinSockAddrLength
Type: REG_DWORD
Data: 0x10

Value 3
Name: Mapping
Type: REG_BINARY
Data:
00000000 0a 00 00 00 03 00 00 00 - 02 00 00 00 01
00 00 00 .....
00000010 06 00 00 00 02 00 00 00 - 01 00 00 00 00
00 00 00 .....
00000020 02 00 00 00 00 00 00 00 - 06 00 00 00 00
00 00 00 .....
00000030 00 00 00 00 06 00 00 00 - 00 00 00 00 01
00 00 00 .....
00000040 06 00 00 00 02 00 00 00 - 02 00 00 00 11
00 00 00 .....
00000050 02 00 00 00 02 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000060 00 00 00 00 11 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 11 00 00 00 00 00 00 00 - 02 00 00 00 11
00 00 00 .....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Gpc\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Gpc\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_GPC\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
helpsvc
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

```

```

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

```

```

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe

```

-k netsvcs

```

Value 4
Name: DisplayName
Type: REG_SZ
Data: Help and Support

```

```

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS

```

```

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

```

```

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

```

```

Value 8
Name: Description
Type: REG_SZ
Data: Enables Help and Support Center to
run on this computer. If this service is stopped,
Help and Support Center will be unavailable. If this
service is disabled, any services that explicitly
depend on it will fail to start.

```

```

Value 9
Name: FailureActions
Type: REG_BINARY
Data:
00000000 80 51 01 00 00 00 00 00 - 00 00 00 00 03
00 00 00 .Q.....
00000010 01 01 00 00 01 00 00 00 - 64 00 00 00 01
00 00 00 .....d.....
64 00 00 00 00 00 00 00 - 64 00 00 00
d.....d...

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
helpsvc\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %WINDIR%\PCHealth\HelpCtr\Binaries\pchsvc.dll

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
helpsvc\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
helpsvc\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_HELPSCV\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
HidServ
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs

```

```

Value 1
Name: Description
Type: REG_SZ
Data: Enables generic input access to
Human Interface Devices (HID), which activates and
maintains the use of predefined hot buttons on
keyboards, remote controls, and other multimedia
devices. If this service is stopped, hot buttons

```

controlled by this service will no longer function. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 2
 Name: DisplayName
 Type: REG_SZ
 Data: Human Interface Device Access

Value 3
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\svchost.exe
 -k netsvcs

Value 5
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 6
 Name: Start
 Type: REG_DWORD
 Data: 0x4

Value 7
 Name: Type
 Type: REG_DWORD
 Data: 0x20

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\HidServ\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: ServiceDll
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\hidserv.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpn
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: SCSI miniport

Value 2

Name: Start
 Type: REG_DWORD
 Data: 0x4

Value 3
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpn\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpn\Parameters\PnpInterface
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: 5
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpgcissb
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 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\hpgcissb.sys

Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: Smart Array Controllers Non-Miniport Bus Driver

Value 6
 Name: Group
 Type: REG_SZ
 Data: port

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpgcissb\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 9:06 AM

Value 0
 Name: CompletionMode
 Type: REG_DWORD
 Data: 0x2

Value 1
 Name: CosTimerRate
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpgcissb\Parameters\Controller5
 Class Name: <NO CLASS>
 Last Write Time: 9/17/2004 - 11:12 AM

Value 0
 Name: CompletionMode
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpgcissb\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/17/2004 - 3:10 AM

Value 0
 Name: Security
 Type: REG_BINARY
 Data:
 00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
 00 00 00
 00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
 80 14 00 0.....
 00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
 00 00 00 Ÿ.....
 00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
 01 02 00 ..`.....Ÿ...
 00000040 01 01 00 00 00 00 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 00Ÿ...
 00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 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: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&24b9e8
52&0&3840
Value 1
Name: Count
Type: REG_DWORD
Data: 0x8
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x8
Value 3
Name: 1
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&24b9e8
52&0&4040
Value 4
Name: 2
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&25f4d2
ac&0&6848
Value 5
Name: 3
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&9630b5
6&0&7050
Value 6
Name: 4
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&2534a5
7b&0&4858
Value 7
Name: 5
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_0046&SUBSYS_409B0E11&REV_01\4&2534a5
7b&0&5058
Value 8
Name: 6

Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&62ba2c
a&0&5860
Value 9
Name: 7
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&62ba2c
a&0&6060
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
hpqcissd
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 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: 1/17/2004 - 3:11 AM
Value 0
Name: Security
Type: REG_BINARY

Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 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 00Ÿ...
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: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&3182b25
d&0&0000004000000000
Value 1
Name: Count
Type: REG_DWORD
Data: 0x13
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x13
Value 3
Name: 1
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&3182b25
d&0&0100004000000000
Value 4
Name: 2
Type: REG_SZ
Data:
HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&28b216e
6&0&0000004000000000
Value 5
Name: 3

Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&28b216e6&0&0100004000000000

Value 6
 Name: 4
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&1f6c26&0&0000040000000000

Value 7
 Name: 5
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&1f6c26&0&0100004000000000

Value 8
 Name: 6
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&1f6c26&0&0200004000000000

Value 9
 Name: 7
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&18f8e1e&0&0000004000000000

Value 10
 Name: 8
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&18f8e1e&0&0100004000000000

Value 11
 Name: 9
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&18f8e1e&0&0200004000000000

Value 12
 Name: 10
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&208896b&c&0&0000004000000000

Value 13
 Name: 11
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&208896b&c&0&0100004000000000

Value 14
 Name: 12

Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&208896b&c&0&0200004000000000

Value 15
 Name: 13
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_HP&PROD_LOGICAL_VOLUME\5&c633b0d&0&0000140010000000

Value 16
 Name: 14
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&4a1e610&0&0000004000000000

Value 17
 Name: 15
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&4a1e610&0&0100004000000000

Value 18
 Name: 16
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&d728187&0&0000004000000000

Value 19
 Name: 17
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&d728187&0&0100004000000000

Value 20
 Name: 18
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&d728187&0&0200004000000000

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpt3xx
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: SCSI miniport

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

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x3b

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpt3xx\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\hpt3xx\Parameters\PnpInterface
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: 5
 Type: REG_DWORD
 Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\HTTP
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: DisplayName
 Type: REG_SZ
 Data: HTTP

Value 1
 Name: Description
 Type: REG_SZ
 Data: This service implements the hypertext transfer protocol (HTTP). If this service is disabled, any services that explicitly depend on it will fail to start.

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: System32\Drivers\HTTP.sys

Value 4
 Name: Start

```

Type:          REG_DWORD
Data:          0x3

Value 5
Name:          Type
Type:          REG_DWORD
Data:          0x1

```

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Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
HTTP\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
HTTP\Security
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name:          Security
Type:          REG_BINARY
Data:
00000000  01 00 14 80 a4 00 00 00 - b0 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 74 00 05 00 00 00 - 00 00 14 00 fd
01 02 00 ..t.....Ÿ...
00000040  01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050  ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060  20 02 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070  00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080  01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090  00 00 14 00 10 00 00 00 - 01 01 00 00 00
00 00 05 .....
000000a0  04 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....
01 01 00 00 00 00 05 - 12 00 00 00
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
HTTPFilter
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name:          DependOnService
Type:          REG_MULTI_SZ
Data:          HTTP

```

```

Value 1
Name:          Description
Type:          REG_SZ

```

```

Data:          This service implements the secure
hypertext transfer protocol (HTTPS) for the HTTP
service, using the Secure Socket Layer (SSL). If
this service is disabled, any services that
explicitly depend on it will fail to start.

```

```

Value 2
Name:          DisplayName
Type:          REG_SZ
Data:          HTTP SSL

```

```

Value 3
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

```

```

Value 4
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\System32\lsass.exe

```

```

Value 5
Name:          ObjectName
Type:          REG_SZ
Data:          LocalSystem

```

```

Value 6
Name:          Start
Type:          REG_DWORD
Data:          0x3

```

```

Value 7
Name:          Type
Type:          REG_DWORD
Data:          0x20

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
HTTPFilter\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name:          ServiceDll
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\System32\w3ssl.dll

```

```

Value 1
Name:          ServiceMain
Type:          REG_SZ
Data:          HTTPFilterServiceMain

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
HTTPFilter\Security
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name:          Security
Type:          REG_BINARY
Data:

```

```

00000000  01 00 14 80 a4 00 00 00 - b0 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 74 00 05 00 00 00 - 00 00 14 00 fd
01 02 00 ..t.....Ÿ...
00000040  01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050  ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060  20 02 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070  00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080  01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090  00 00 14 00 10 00 00 00 - 01 01 00 00 00
00 00 05 .....
000000a0  04 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....
01 01 00 00 00 00 05 - 12 00 00 00
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
i2omgmt
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

```

```

Value 1
Name:          Group
Type:          REG_SZ
Data:          SCSI Class

```

```

Value 2
Name:          Start
Type:          REG_DWORD
Data:          0x1

```

```

Value 3
Name:          Tag
Type:          REG_DWORD
Data:          0x2d

```

```

Value 4
Name:          Type
Type:          REG_DWORD
Data:          0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
i2omp
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: SCSI miniport

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

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x2d

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 i2omp\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 i2omp\Parameters\PnpInterface
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: 5
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 i8042prt
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: Group
 Type: REG_SZ
 Data: Keyboard Port

Value 3

Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: i8042 Keyboard and PS/2 Mouse Port
 Driver

Value 5
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\i8042prt.sys

Value 6
 Name: Tag
 Type: REG_DWORD
 Data: 0x4

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 i8042prt\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:15 AM

Value 0
 Name: PollingIterations
 Type: REG_DWORD
 Data: 0x2ee0

Value 1
 Name: PollingIterationsMaximum
 Type: REG_DWORD
 Data: 0x2ee0

Value 2
 Name: ResendIterations
 Type: REG_DWORD
 Data: 0x3

Value 3
 Name: LayerDriver JPN
 Type: REG_SZ
 Data: kbd101.dll

Value 4
 Name: LayerDriver KOR
 Type: REG_SZ
 Data: kbd101a.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 i8042prt\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: ACPI\PNP0303\4&1c7dede8&0

Value 1

Name: Count
 Type: REG_DWORD
 Data: 0x2

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x2

Value 3
 Name: 1
 Type: REG_SZ
 Data: ACPI\PNP0F13\4&1c7dede8&0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 iirsp
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: SCSI miniport

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

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x2d

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 iirsp\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 iirsp\Parameters\PnpInterface
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: 5
 Type: REG_DWORD
 Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\imapi
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x1

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\imapi.sys

Value 5
Name: DisplayName
Type: REG_SZ
Data: CD-Burning Filter Driver

Value 6
Name: Group
Type: REG_SZ
Data: Pnp Filter

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\imapi\Security
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM

Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..Ÿ.....
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....

00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\imapi\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Count
Type: REG_DWORD
Data: 0

Value 1
Name: NextInstance
Type: REG_DWORD
Data: 0

Value 2
Name: INITSTARTFAILED
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ImapiService
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x10

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

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_SZ
Data: C:\WINDOWS\system32\imapi.exe

Value 4
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 5
Name: DisplayName
Type: REG_SZ
Data: IMAPI CD-Burning COM Service

Value 6
Name: Description
Type: REG_SZ
Data: Manages CD recording using Image Mastering Applications Programming Interface (IMAPI). If this service is stopped, this computer will be unable to record CDs. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\inetaccs
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data:

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\inetaccs\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data:

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Inport
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Inport\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: HzMode
Type: REG_DWORD
Data: 0x2

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IntelIde
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD


```

Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: System Bus Extender

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x4

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
InterruptAffinityFilter
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 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: ImagePath
Type: REG_EXPAND_SZ
Data: System32\DRIVERS\intfiltr.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: Interrupt Affinity Filter

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
InterruptAffinityFilter\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ

```

```

Data:
PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_10\4&82820f
c&0&3038

Value 1
Name: Count
Type: REG_DWORD
Data: 0x8

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x8

Value 3
Name: 1
Type: REG_SZ
Data:
PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_10\4&82820f
c&0&3138

Value 4
Name: 2
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&24b9e8
52&0&3840

Value 5
Name: 3
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&24b9e8
52&0&4040

Value 6
Name: 4
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&9630b5
6&0&7050

Value 7
Name: 5
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&2534a5
7b&0&4858

Value 8
Name: 6
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&62ba2c
a&0&5860

Value 9
Name: 7
Type: REG_SZ
Data:
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&62ba2c
a&0&6060

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IpFilterDriver
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ipfltdrv.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: IP Traffic Filter Driver

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: Tcpip

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: Description
Type: REG_SZ
Data: IP Traffic Filter Driver

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IpFilterDriver\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IpInIp
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ipinip.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: IP in IP Tunnel Driver

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: Tcpip

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: Description
Type: REG_SZ
Data: IP in IP Tunnel Driver

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IpInIp\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IpNat
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ipnat.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: IP Network Address Translator

```

```

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: Tcpip

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: Description
Type: REG_SZ
Data: IP Network Address Translator

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IpNat\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IPSec
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD

```

Data: 0x1

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x5

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ipsec.sys

Value 5
Name: DisplayName
Type: REG_SZ
Data: IPSEC driver

Value 6
Name: Group
Type: REG_SZ
Data: PNP_TDI

Value 7
Name: Description
Type: REG_SZ
Data: IPSEC driver

Value 8
Name: NoDefaultExempt
Type: REG_DWORD
Data: 0x3

Value 9
Name: BootExemptList
Type: REG_BINARY
Data: 00000000 01 00 00 00 10 00 00 00 - 11 01 00 00 44
00 00 00D...

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IPSec\Performance
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:08 AM

Value 0
Name: Open
Type: REG_SZ
Data: OpenIPSecPerformanceData

Value 1
Name: Close
Type: REG_SZ
Data: CloseIPSecPerformanceData

Value 2
Name: Collect

Type: REG_SZ
Data: CollectIPSecPerformanceData

Value 3
Name: Library
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\winipsec.dll

Value 4
Name: PerfIniFile
Type: REG_SZ
Data: ipsecprf.ini

Value 5
Name: Last Counter
Type: REG_DWORD
Data: 0x792

Value 6
Name: Last Help
Type: REG_DWORD
Data: 0x793

Value 7
Name: First Counter
Type: REG_DWORD
Data: 0x738

Value 8
Name: First Help
Type: REG_DWORD
Data: 0x739

Value 9
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 13 dd 84 8b 24 12 76 de - 41 27 f1 40 1a
4b d4 0a .ÿ. \$.vPA'ñ@.KÖ.

Value 10
Name: WbemAdapFileTime
Type: REG_BINARY
Data: 00 60 a9 0f c6 f2 c2 01 -
.~°.ËbÅ.

Value 11
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x8a00

Value 12
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IPSec\Security
Class Name: <NO CLASS>

Last Write Time: 1/15/2004 - 9:32 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 00ÿ...
00000080 01 02 00 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
IPSec\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_IPSEC\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ipsraidn
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ

Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x35

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ipsraidn\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ipsraidn\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ISAPISearch
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ISAPISearch\Linkage
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: Bind
Type: REG_SZ
Data: \Dummy

Value 1
Name: Export
Type: REG_SZ
Data: \Dummy

Value 2
Name: Route
Type: REG_SZ
Data: \Dummy

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ISAPISearch\Performance
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:08 AM

Value 0
Name: Close
Type: REG_SZ
Data: DoneCIISAPIPerformanceData

Value 1
Name: Collect
Type: REG_SZ
Data: CollectCIISAPIPerformanceData

Value 2
Name: Open
Type: REG_SZ
Data: InitializeCIISAPIPerformanceData

Value 3
Name: Library
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\query.dll

Value 4
Name: PerfIniFile
Type: REG_SZ
Data: perfwci.ini

Value 5
Name: Last Counter
Type: REG_DWORD
Data: 0x95e

Value 6
Name: Last Help
Type: REG_DWORD
Data: 0x95f

Value 7
Name: First Counter
Type: REG_DWORD
Data: 0x94a

Value 8
Name: First Help
Type: REG_DWORD
Data: 0x94b

Value 9
Name: Object List
Type: REG_SZ
Data: 2378

Value 10
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 71 96 a7 5d c0 f9 40 03 - ea 70 b7 f8 99
42 ae a0 q.}\$jÄü@.êp·ø.B®

Value 11
Name: WbemAdapFileTime
Type: REG_BINARY

Data: 00 60 a9 0f c6 f2 c2 01 -
.^°.ËöÅ.

Value 12
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x14c000

Value 13
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
isapnp
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x3

Value 1
Name: Group
Type: REG_SZ
Data: Boot Bus Extender

Value 2
Name: Start
Type: REG_DWORD
Data: 0

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Value 5
Name: HasBootConfig
Type: REG_DWORD
Data: 0

Value 6
Name: DisplayName
Type: REG_SZ
Data: PnP ISA/EISA Bus Driver

Value 7
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\isapnp.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\isapnp\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ADP1502
Type: REG_DWORD
Data: 0x1

Value 1
Name: ADP1505
Type: REG_DWORD
Data: 0x1

Value 2
Name: ADP1510
Type: REG_DWORD
Data: 0x1

Value 3
Name: ADP1512
Type: REG_DWORD
Data: 0x1

Value 4
Name: ADP1515
Type: REG_DWORD
Data: 0x1

Value 5
Name: ADP1520
Type: REG_DWORD
Data: 0x1

Value 6
Name: ADP1522
Type: REG_DWORD
Data: 0x1

Value 7
Name: ADP3015
Type: REG_DWORD
Data: 0x1

Value 8
Name: ADP3215
Type: REG_DWORD
Data: 0x1

Value 9
Name: ADP6360
Type: REG_DWORD
Data: 0x1

Value 10
Name: ADP6370
Type: REG_DWORD
Data: 0x1

Value 11
Name: USR0014

Type: REG_DWORD
Data: 0x1

Value 12
Name: USR1001
Type: REG_DWORD
Data: 0x1

Value 13
Name: USR1002
Type: REG_DWORD
Data: 0x1

Value 14
Name: USR1003
Type: REG_DWORD
Data: 0x1

Value 15
Name: USR1004
Type: REG_DWORD
Data: 0x1

Value 16
Name: USR6001
Type: REG_DWORD
Data: 0x1

Value 17
Name: USR6002
Type: REG_DWORD
Data: 0x1

Value 18
Name: USR6003
Type: REG_DWORD
Data: 0x1

Value 19
Name: USR6004
Type: REG_DWORD
Data: 0x1

Value 20
Name: USR6005
Type: REG_DWORD
Data: 0x1

Value 21
Name: USR6006
Type: REG_DWORD
Data: 0x1

Value 22
Name: USR6007
Type: REG_DWORD
Data: 0x1

Value 23
Name: USR6008
Type: REG_DWORD
Data: 0x1

Value 24
Name: USR6009
Type: REG_DWORD
Data: 0x1

Value 25
Name: USR600A
Type: REG_DWORD
Data: 0x1

Value 26
Name: USR600B
Type: REG_DWORD
Data: 0x1

Value 27
Name: USR600C
Type: REG_DWORD
Data: 0x1

Value 28
Name: USR600D
Type: REG_DWORD
Data: 0x1

Value 29
Name: USR600E
Type: REG_DWORD
Data: 0x1

Value 30
Name: USR600F
Type: REG_DWORD
Data: 0x1

Value 31
Name: USR6010
Type: REG_DWORD
Data: 0x1

Value 32
Name: USR6011
Type: REG_DWORD
Data: 0x1

Value 33
Name: USR6012
Type: REG_DWORD
Data: 0x1

Value 34
Name: USR6101
Type: REG_DWORD
Data: 0x1

Value 35
Name: USR6020
Type: REG_DWORD
Data: 0x1

Value 36
Name: USR0041
Type: REG_DWORD

Data: 0x1

Value 37
Name: USR002C
Type: REG_DWORD
Data: 0x1

Value 38
Name: AZT4029
Type: REG_DWORD
Data: 0x1

Value 39
Name: AZT4023
Type: REG_DWORD
Data: 0x1

Value 40
Name: USR0040
Type: REG_DWORD
Data: 0x1

Value 41
Name: HAY8601
Type: REG_DWORD
Data: 0x1

Value 42
Name: EQX2400
Type: REG_DWORD
Data: 0x2

Value 43
Name: EQX0900
Type: REG_DWORD
Data: 0x2

Value 44
Name: EQX1B00
Type: REG_DWORD
Data: 0x2

Value 45
Name: EQX1700
Type: REG_DWORD
Data: 0x2

Value 46
Name: EQX0700
Type: REG_DWORD
Data: 0x2

Value 47
Name: EQX0F00
Type: REG_DWORD
Data: 0x2

Value 48
Name: EQX0800
Type: REG_DWORD
Data: 0x2

Value 49

Name: EQX1000
Type: REG_DWORD
Data: 0x2

Value 50
Name: EQX3F00
Type: REG_DWORD
Data: 0x2

Value 51
Name: EQX1200
Type: REG_DWORD
Data: 0x2

Value 52
Name: IBM0001
Type: REG_DWORD
Data: 0x10

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\isapnp\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: PCI\VEN_1022&DEV_7468&SUBSYS_00000000&REV_05\3&20fea912&0&20

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IsmServ
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: SamSS

Value 1
Name: Description
Type: REG_SZ
Data: Enables messages to be exchanged between computers running Windows Server sites. If this service is stopped, messages will not be exchanged, nor will site routing information be calculated for other services. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 2
Name: DisplayName
Type: REG_SZ
Data: Intersite Messaging

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ismserv.exe

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Start
Type: REG_DWORD
Data: 0x4

Value 7
Name: Type
Type: REG_DWORD
Data: 0x10

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Kbdclass
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: Keyboard Class

Value 2
Name: Start
Type: REG_DWORD
Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Value 5

Name: DisplayName
Type: REG_SZ
Data: Keyboard Class Driver

Value 6
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\kbdclass.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Kbdclass\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ConnectMultiplePorts
Type: REG_DWORD
Data: 0

Value 1
Name: KeyboardDataQueueSize
Type: REG_DWORD
Data: 0x64

Value 2
Name: KeyboardDeviceBaseName
Type: REG_SZ
Data: KeyboardClass

Value 3
Name: MaximumPortsServiced
Type: REG_DWORD
Data: 0x3

Value 4
Name: SendOutputToAllPorts
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Kbdclass\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\RDP_KBD\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x2

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x2

Value 3
Name: 1

Type: REG_SZ
Data: ACPI\PNP0303\4&1c7dede8&0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\kdc
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs
Afd

Value 1
Name: Description
Type: REG_SZ
Data: On domain controllers this service enables users to log on to the network using the Kerberos authentication protocol. If this service is stopped on a domain controller, users will be unable to log on to the network. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 2
Name: DisplayName
Type: REG_SZ
Data: Kerberos Key Distribution Center

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: Group
Type: REG_SZ
Data: MS_WindowsRemoteValidation

Value 5
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\lsass.exe

Value 6
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 7
Name: Start
Type: REG_DWORD
Data: 0x4

Value 8
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\kdc\Security
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: Security
Type: REG_BINARY
Data: 00000000 01 00 14 80 9c 00 00 00 - a8 00 00 00 14
00 00 00
00000010 34 00 00 00 02 00 20 00 - 01 00 00 00 02
80 18 00 4.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....
00000030 20 02 00 00 02 00 68 00 - 04 00 00 00 00
03 18 00h.....
00000040 8d 00 02 00 01 01 00 00 - 00 00 00 01 00
00 00 00
00000050 00 00 00 00 00 03 18 00 - ff 01 0f 00 01
02 00 00Ÿ.....
00000060 00 00 00 05 20 00 00 00 - 20 02 00 00 00
03 18 00
00000070 8f 00 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000080 23 02 00 00 03 18 00 - 9d 00 00 00 01
01 00 00 #.....
00000090 00 00 00 05 04 00 00 00 - 23 02 00 00 01
01 00 00#.....
000000a0 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\KSecDD
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: Base

Value 2
Name: Start
Type: REG_DWORD
Data: 0

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 4
Name: Type
Type: REG_DWORD

```

Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
KSecDD\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_KSECCD\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
lanmanserver
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Server

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Description
Type: REG_SZ

```

```

Data: Supports file, print, and named-
pipe sharing over the network for this computer. If
this service is stopped, these functions will be
unavailable. If this service is disabled, any
services that explicitly depend on it will fail to
start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
lanmanserver\AutotunedParameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
lanmanserver\DefaultSecurity
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:46 PM
Value 0
Name: SrvsvcConfigInfo
Type: REG_BINARY
Data:
00000000 01 00 04 80 a0 00 00 00 - ac 00 00 00 00
00 00 00 .....
00000010 14 00 00 00 02 00 8c 00 - 06 00 00 00 00
00 18 00 .....
00000020 17 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 17 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 14 00 .....%
00000050 17 00 0f 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....
00000060 00 00 18 00 03 00 00 00 - 01 02 00 00 00
00 00 05 .....
00000070 20 00 00 00 23 02 00 00 - 00 00 14 00 01
00 00 00 ...#.....
00000080 01 01 00 00 00 00 00 01 - 00 00 00 00 00
00 14 00 .....
00000090 01 00 00 00 01 01 00 00 - 00 00 00 05 07
00 00 00 .....
000000a0 01 01 00 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Value 1
Name: SrvsvcTransportEnum
Type: REG_BINARY
Data:
00000000 01 00 04 80 8c 00 00 00 - 98 00 00 00 00
00 00 00 .....
00000010 14 00 00 00 02 00 78 00 - 05 00 00 00 00
00 18 00 .....X.....
00000020 17 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 17 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 14 00 .....%.....

```

```

00000050 17 00 0f 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....
00000060 00 00 18 00 03 00 00 00 - 01 02 00 00 00
00 00 05 .....
00000070 20 00 00 00 23 02 00 00 - 00 00 14 00 01
00 00 00 ...#.....
00000080 01 01 00 00 00 00 00 05 - 0b 00 00 00 01
01 00 00 .....
00000090 00 00 00 05 12 00 00 00 - 01 01 00 00 00
00 00 05 .....
12 00 00 00
....

Value 2
Name: SrvsvcConnection
Type: REG_BINARY
Data:
00000000 01 00 04 80 7c 00 00 00 - 88 00 00 00 00
00 00 00 ...|.....
00000010 14 00 00 00 02 00 68 00 - 04 00 00 00 00
00 18 00 .....h.....
00000020 01 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 01 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 18 00 .....%.....
00000050 01 00 00 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 26 02 00 00 00 00 18 00 - 01 00 00 00 01
02 00 00 &.....
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 01
01 00 00 .....#.....
00000080 00 00 00 05 12 00 00 00 - 01 01 00 00 00
00 00 05 .....
12 00 00 00
....

Value 3
Name: SrvsvcServerDiskEnum
Type: REG_BINARY
Data:
00000000 01 00 04 80 4c 00 00 00 - 58 00 00 00 00
00 00 00 ...L..X.....
00000010 14 00 00 00 02 00 38 00 - 02 00 00 00 00
00 18 00 .....8.....
00000020 01 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 01 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 01
01 00 00 .....%.....
00000050 00 00 00 05 12 00 00 00 - 01 01 00 00 00
00 00 05 .....
12 00 00 00
....

Value 4
Name: SrvsvcFile
Type: REG_BINARY
Data:
00000000 01 00 04 80 64 00 00 00 - 70 00 00 00 00
00 00 00 ...d..p.....

```



```

00000010 14 00 00 00 02 00 50 00 - 03 00 00 00 00
00 18 00 .....P.....
00000020 11 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 11 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 18 00 .....%.....
00000050 11 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 #.....
01 01 00 00 00 00 05 - 12 00 00 00
.....

Value 5
Name:          SrvsvcSessionInfo
Type:         REG_BINARY
Data:
00000000 01 00 04 80 78 00 00 00 - 84 00 00 00 00
00 00 00 .....x.....
00000010 14 00 00 00 02 00 64 00 - 04 00 00 00 00
00 18 00 .....d.....
00000020 13 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 13 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 18 00 .....%.....
00000050 13 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 14 00 - 01 00 00 00 01
01 00 00 #.....
00000070 00 00 00 05 0b 00 00 00 - 01 01 00 00 00
00 00 05 .....
00000080 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....

Value 6
Name:          SrvsvcShareFileInfo
Type:         REG_BINARY
Data:
00000000 01 00 04 80 8c 00 00 00 - 98 00 00 00 00
00 00 00 .....
00000010 14 00 00 00 02 00 78 00 - 05 00 00 00 00
00 18 00 .....x.....
00000020 13 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 13 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 18 00 .....%.....
00000050 13 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 14 00 - 01 00 00 00 01
01 00 00 #.....
00000070 00 00 00 01 00 00 00 00 - 00 00 14 00 01
00 00 00 .....
00000080 01 01 00 00 00 00 05 - 07 00 00 00 01
01 00 00 .....
00000090 00 00 00 05 12 00 00 00 - 01 01 00 00 00
00 00 05 .....

```

```

12 00 00 00
....

Value 7
Name:          SrvsvcSharePrintInfo
Type:         REG_BINARY
Data:
00000000 01 00 04 80 a4 00 00 00 - b0 00 00 00 00
00 00 00 .....p.....
00000010 14 00 00 00 02 00 90 00 - 06 00 00 00 00
00 18 00 .....
00000020 13 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 13 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 18 00 .....%.....
00000050 13 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 26 02 00 00 00 00 18 00 - 13 00 0f 00 01
02 00 00 &.....
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 00
00 14 00 .....#.....
00000080 01 00 00 00 01 01 00 00 - 00 00 00 01 00
00 00 00 .....
00000090 00 00 14 00 01 00 00 00 - 01 01 00 00 00
00 00 05 .....
000000a0 07 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....
01 01 00 00 00 00 05 - 12 00 00 00
.....

Value 8
Name:          SrvsvcShareAdminInfo
Type:         REG_BINARY
Data:
00000000 01 00 04 80 8c 00 00 00 - 98 00 00 00 00
00 00 00 .....
00000010 14 00 00 00 02 00 78 00 - 05 00 00 00 00
00 18 00 .....x.....
00000020 13 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 02 00 00 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 18 00 .....%.....
00000050 02 00 00 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 14 00 - 01 00 00 00 01
01 00 00 #.....
00000070 00 00 00 01 00 00 00 00 - 00 00 14 00 01
00 00 00 .....
00000080 01 01 00 00 00 00 05 - 07 00 00 00 01
01 00 00 .....
00000090 00 00 00 05 12 00 00 00 - 01 01 00 00 00
00 00 05 .....
12 00 00 00
....

Value 9
Name:          SrvsvcShareConnect
Type:         REG_BINARY
Data:

```

```

00000000 01 00 04 80 8c 00 00 00 - 98 00 00 00 00
00 00 00 .....
00000010 14 00 00 00 02 00 78 00 - 05 00 00 00 00
00 18 00 .....x.....
00000020 03 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 03 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 18 00 .....%.....
00000050 03 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 27 02 00 00 00 00 14 00 - 01 00 00 00 01
01 00 00 '.....
00000070 00 00 00 01 00 00 00 00 - 00 00 14 00 01
00 00 00 .....
00000080 01 01 00 00 00 00 05 - 07 00 00 00 01
01 00 00 .....
00000090 00 00 00 05 12 00 00 00 - 01 01 00 00 00
00 00 05 .....
12 00 00 00
....

Value 10
Name:          SrvsvcShareAdminConnect
Type:         REG_BINARY
Data:
00000000 01 00 04 80 64 00 00 00 - 70 00 00 00 00
00 00 00 .....d...p.....
00000010 14 00 00 00 02 00 50 00 - 03 00 00 00 00
00 18 00 .....P.....
00000020 03 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 03 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 18 00 .....%.....
00000050 03 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 27 02 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 '.....
01 01 00 00 00 00 05 - 12 00 00 00
.....

Value 11
Name:          SrvsvcStatisticsInfo
Type:         REG_BINARY
Data:
00000000 01 00 04 80 60 00 00 00 - 6c 00 00 00 00
00 00 00 .....l.....
00000010 14 00 00 00 02 00 4c 00 - 03 00 00 00 00
00 18 00 .....L.....
00000020 01 00 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000030 20 02 00 00 00 00 18 00 - 01 00 0f 00 01
02 00 00 .....
00000040 00 00 00 05 20 00 00 00 - 25 02 00 00 00
00 14 00 .....%.....
00000050 01 00 00 00 01 01 00 00 - 00 00 00 02 00
00 00 00 .....
00000060 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....

```

```

00 00 00 05 12 00 00 00 -
.....
Value 12
Name: AnonymousDescriptorsUpgraded
Type: REG_DWORD
Data: 0x1

Value 13
Name: PreviousAnonymousRestriction
Type: REG_DWORD
Data: 0

Value 14
Name: SessionSecurityDescriptorRegenerated
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
lanmanserver\Linkage
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: Bind
Type: REG_MULTI_SZ
Data: \Device\NetbiosSmb
\Device\NetBT_Tcpip_{CE7A3254-
EC99-4338-B407-7465734E5082}
\Device\NetBT_Tcpip_{4349E852-
A14E-4787-9E1A-431287E38C02}
\Device\NetBT_Tcpip_{C9AAEDDF-
6B65-4D92-A4D6-D9F8D6EAA4E8}
\Device\NetBT_Tcpip_{9C47CAE5-
9799-4E1E-A92E-4D3D2644658E}

Value 1
Name: Route
Type: REG_MULTI_SZ
Data: "NetbiosSmb"
"NetBT" "Tcpip" "{CE7A3254-EC99-
4338-B407-7465734E5082}"
"NetBT" "Tcpip" "{4349E852-A14E-
4787-9E1A-431287E38C02}"
"NetBT" "Tcpip" "NdisWanIp"

Value 2
Name: Export
Type: REG_MULTI_SZ
Data: \Device\LanmanServer_NetbiosSmb

\Device\LanmanServer_NetBT_Tcpip_{CE7A3254-EC99-4338-
B407-7465734E5082}

\Device\LanmanServer_NetBT_Tcpip_{4349E852-A14E-4787-
9E1A-431287E38C02}

\Device\LanmanServer_NetBT_Tcpip_{C9AAEDDF-6B65-4D92-
A4D6-D9F8D6EAA4E8}

```

```

\Device\LanmanServer_NetBT_Tcpip_{9C47CAE5-9799-4E1E-
A92E-4D3D2644658E}

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
lanmanserver\parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:46 PM
Value 0
Name: autodisconnect
Type: REG_DWORD
Data: 0xf

Value 1
Name: enableforcedlogoff
Type: REG_DWORD
Data: 0x1

Value 2
Name: enablesecuritysignature
Type: REG_DWORD
Data: 0

Value 3
Name: requiresecuritysignature
Type: REG_DWORD
Data: 0

Value 4
Name: restrictnullsessaccess
Type: REG_DWORD
Data: 0x1

Value 5
Name: NullSessionPipes
Type: REG_MULTI_SZ
Data: COMNAP
COMNODE
SQL\QUERY
SPOOLSS
EPMAPPER
LOCATOR
TrkWks
TrkSvr

Value 6
Name: NullSessionShares
Type: REG_MULTI_SZ
Data: COMCFG
DFS$

Value 7
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svrsvc.dll

Value 8
Name: Lmannounce
Type: REG_DWORD
Data: 0

```

```

Value 9
Name: Size
Type: REG_DWORD
Data: 0x3

Value 10
Name: Guid
Type: REG_BINARY
Data: 00000000 a0 89 44 f8 55 5e a1 4c - 8a 5e cc 77 41
82 b2 d1 .DøU^;L.^îwA.²Ñ

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
lanmanserver\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Security
Type: REG_BINARY
Data: 00000000 01 00 14 80 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 ý.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
01 02 00 .....
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....ý.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 ý.....
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\
lanmanserver\Shares
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:46 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
lanmanserver\Shares\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:46 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
lanmanserver\Enum
Class Name: <NO CLASS>

```

Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_LANMANSERVER\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lanmanworkstation
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Workstation

Value 5
Name: Group
Type: REG_SZ
Data: NetworkProvider

Value 6
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 7
Name: Description
Type: REG_SZ
Data: Creates and maintains client network connections to remote servers. If this

service is stopped, these connections will be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lanmanworkstation\Linkage
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM

Value 0
Name: Bind
Type: REG_MULTI_SZ
Data: \Device\NetbiosSmb
\Device\NetBT_Tcpip_{CE7A3254-EC99-4338-B407-7465734E5082}
\Device\NetBT_Tcpip_{4349E852-A14E-4787-9E1A-431287E38C02}
\Device\NetBT_Tcpip_{C9AAEDDF-6B65-4D92-A4D6-D9F8D6EAA4E8}
\Device\NetBT_Tcpip_{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}

Value 1
Name: Route
Type: REG_MULTI_SZ
Data: "NetbiosSmb"
"NetBT" "Tcpip" "{CE7A3254-EC99-4338-B407-7465734E5082}"
"NetBT" "Tcpip" "{4349E852-A14E-4787-9E1A-431287E38C02}"
"NetBT" "Tcpip" "NdisWanIp"

Value 2
Name: Export
Type: REG_MULTI_SZ
Data: \Device\LanmanWorkstation_NetbiosSmb
\Device\LanmanWorkstation_NetBT_Tcpip_{CE7A3254-EC99-4338-B407-7465734E5082}

\Device\LanmanWorkstation_NetBT_Tcpip_{4349E852-A14E-4787-9E1A-431287E38C02}

\Device\LanmanWorkstation_NetBT_Tcpip_{C9AAEDDF-6B65-4D92-A4D6-D9F8D6EAA4E8}

\Device\LanmanWorkstation_NetBT_Tcpip_{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lanmanworkstation\NetworkProvider
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: Name
Type: REG_SZ
Data: Microsoft Windows Network

Value 1
Name: ProviderPath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ntlanman.dll

Value 2
Name: DeviceName
Type: REG_SZ
Data: \Device\LanmanRedirector

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lanmanworkstation\parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: enableplaintextpassword
Type: REG_DWORD
Data: 0

Value 1
Name: enablesecuritysignature
Type: REG_DWORD
Data: 0x1

Value 2
Name: requiresecuritysignature
Type: REG_DWORD
Data: 0

Value 3
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\wkssvc.dll

Value 4
Name: OtherDomains
Type: REG_MULTI_SZ
Data:

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lanmanworkstation\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 ý.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
01 02 00 ..~.....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
.....

```

00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 ÿ.....
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\
lanmanworkstation\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_LANMANWORKSTATION\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ldap
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ldapclientintegrity
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseInfo
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 3:32 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

```

```

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

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseInfo\FilePrint
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 3:32 PM

```

```

Value 0
Name: Mode
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: ConcurrentLimit
Type: REG_DWORD
Data: 0x270f

```

```

Value 2
Name: FlipAllow
Type: REG_DWORD
Data: 0x1

```

```

Value 3
Name: FamilyDisplayName
Type: REG_SZ
Data: Windows Server

```

```

Value 4
Name: DisplayName
Type: REG_SZ
Data: Windows Server

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 3:32 PM

```

```

Value 0
Name: Type
Type: REG_DWORD
Data: 0x10

```

```

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

```

```

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\llssrv.exe

```

```

Value 4
Name: DisplayName
Type: REG_SZ
Data: License Logging

```

```

Value 5
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\NetworkService

```

```

Value 6
Name: Description
Type: REG_SZ
Data: Monitors and records client access
licensing for portions of the operating system (such
as IIS, Terminal Server and File/Print) as well as
products that aren't a part of the OS, like SQL and
Exchange Server. If this service is stopped,
licensing will be enforced, but will not be
monitored.

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint\KSecDD
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 3:32 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint\MSAfpSrv
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 3:32 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint\SMBServer
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 3:32 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint\TCP/IP Print Server
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 3:32 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\FilePrint\TermService
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM

```

```

Value 0
Name: <NO NAME>
Type: REG_SZ
Data:

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 3:32 PM

```

```

Value 0
  Name: UseEnterprise
  Type: REG_DWORD
  Data: 0

Value 1
  Name: ReplicationType
  Type: REG_DWORD
  Data: 0

Value 2
  Name: ReplicationTime
  Type: REG_DWORD
  Data: 0x15180

Value 3
  Name: EnterpriseServer
  Type: REG_SZ
  Data:

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LicenseService\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00 .....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name:
  Type:
  Type: REG_DWORD
  Data: 0x20

```

```

Value 1
  Name: Start
  Type: REG_DWORD
  Data: 0x2

Value 2
  Name: ErrorControl
  Type: REG_DWORD
  Data: 0x1

Value 3
  Name: ImagePath
  Type: REG_EXPAND_SZ
  Data: %SystemRoot%\system32\svchost.exe
-k LocalService

Value 4
  Name: DisplayName
  Type: REG_SZ
  Data: TCP/IP NetBIOS Helper

Value 5
  Name: Group
  Type: REG_SZ
  Data: TDI

Value 6
  Name: DependOnService
  Type: REG_MULTI_SZ
  Data: NetBT
Afd

Value 7
  Name: DependOnGroup
  Type: REG_MULTI_SZ
  Data:

Value 8
  Name: ObjectName
  Type: REG_SZ
  Data: NT AUTHORITY\LocalService

Value 9
  Name: Description
  Type: REG_SZ
  Data: Provides support for the NetBIOS
over TCP/IP (NetBT) service and NetBIOS name
resolution for clients on the network, therefore
enabling users to share files, print, and log on to
the network. If this service is stopped, these
functions might be unavailable. If this service is
disabled, any services that explicitly depend on it
will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
  Name: ServiceDll

```

```

Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\lmhsvc.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00 .....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
LmHosts\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name: 0
  Type: REG_SZ
  Data: Root\LEGACY_LMHOSTS\0000

Value 1
  Name: Count
  Type: REG_DWORD
  Data: 0x1

Value 2
  Name: NextInstance
  Type: REG_DWORD
  Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
lp6nds35
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: SCSI miniport

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

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x27

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lp6nds35\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lp6nds35\Parameters\PnpInterface
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: 5
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Messenger
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x20

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

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\svchost.exe
 -k netsvcs

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Messenger

Value 5
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: LanmanWorkstation
 NetBIOS
 PlugPlay
 RpcSS

Value 6
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 7
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 8
 Name: Description
 Type: REG_SZ
 Data: Transmits net send and Alerter service messages between clients and servers. This service is not related to Windows Messenger. If this service is stopped, Alerter messages will not be transmitted. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Messenger\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: ServiceDll
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\msgsvcs.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Messenger\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 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 8d
 01 02 00 ..~.....
 00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
 00 18 00
 00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
 00 00 00
 00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
 02 00 00 #.....Ÿ.....
 00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
 00 14 00
 00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
 00 00 00 Ÿ.....
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\mmdd
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Group
 Type: REG_SZ
 Data: Video Save

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\mmdd\Device0
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: InstalledDisplayDrivers
 Type: REG_MULTI_SZ
 Data: mmdd

Value 1
 Name: Device Description
 Type: REG_SZ
 Data: NetMeeting driver

Value 2
 Name: VgaCompatible
 Type: REG_DWORD
 Data: 0

Value 3
 Name: MirrorDriver
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 mnmdd\Video
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: VideoID
 Type: REG_SZ
 Data: {8B6D7859-A639-4A15-8790-
 7161976D057A}

Value 1
 Name: Service
 Type: REG_SZ
 Data: mnmdd

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 mnmdd\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_MNMD\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 mnmsrvc
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x110

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

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\mnmsrvc.exe

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: NetMeeting Remote Desktop Sharing

Value 5
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 6
 Name: Description
 Type: REG_SZ
 Data: Enables an authorized user to
 access this computer remotely by using NetMeeting
 over a corporate intranet. If this service is
 stopped, remote desktop sharing will be unavailable.
 If this service is disabled, any services that
 explicitly depend on it will fail to start.

Value 7
 Name: Group
 Type: REG_SZ
 Data:

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 mnmsrvc\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 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 00Ÿ...
 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 00Ÿ...

00000080 01 02 00 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Modem
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Group
 Type: REG_SZ
 Data: Extended base

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x4

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Modem\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Mouclass
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: Pointer Class

Value 2
 Name: Start
 Type: REG_DWORD

Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Value 5
Name: DisplayName
Type: REG_SZ
Data: Mouse Class Driver

Value 6
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\mouclass.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MouClass\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ConnectMultiplePorts
Type: REG_DWORD
Data: 0

Value 1
Name: MaximumPortsServiced
Type: REG_DWORD
Data: 0x3

Value 2
Name: MouseDataQueueSize
Type: REG_DWORD
Data: 0x64

Value 3
Name: PointerDeviceBaseName
Type: REG_SZ
Data: PointerClass

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MouClass\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\RDP_MOU\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x2

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x2

Value 3
Name: 1
Type: REG_SZ
Data: ACPI\PNP0F13\4&1c7dede8&0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MountMgr
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: DisplayName
Type: REG_SZ
Data: Mount Point Manager

Value 1
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 2
Name: Group
Type: REG_SZ
Data: System Bus Extender

Value 3
Name: Start
Type: REG_DWORD
Data: 0

Value 4
Name: Tag
Type: REG_DWORD
Data: 0x8

Value 5
Name: Type
Type: REG_DWORD
Data: 0x1

Value 6
Name: NoAutoMount
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MountMgr\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_MOUNTMGR\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
mraid35x
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x2b

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
mraid35x\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
mraid35x\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MRxDAV
Class Name: <NO CLASS>

Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x2

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\mrxdav.sys

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: WebDav Client Redirector

Value 5
 Name: Description
 Type: REG_SZ
 Data: WebDav Client Redirector

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MRXDAV\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: FileInformationCacheLifeTimeInSec
 Type: REG_DWORD
 Data: 0x3c

Value 1
 Name: FileNotFoundCacheLifeTimeInSec
 Type: REG_DWORD
 Data: 0x3c

Value 2
 Name: NameCacheMaxEntries
 Type: REG_DWORD
 Data: 0x12c

Value 3
 Name: DAVDebugFlag
 Type: REG_DWORD
 Data: 0

Value 4
 Name: UMRxDebugFlag
 Type: REG_DWORD
 Data: 0

Value 5

Name: CreateRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 6
 Name: CreateVNetRootRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x3c

Value 7
 Name: QueryDirectoryRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 8
 Name: CloseRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 9
 Name: CreateSrvCallRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x3c

Value 10
 Name: FinalizeSrvCallRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 11
 Name: FinalizeFobxRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 12
 Name: FinalizeVNetRootRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 13
 Name: ReNameRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 14
 Name: SetFileInfoRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 15
 Name: QueryFileInfoRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 16
 Name: QueryVolumeInfoRequestTimeoutInSec
 Type: REG_DWORD
 Data: 0x258

Value 17
 Name: LockRefreshRequestTimeoutInSec
 Type: REG_DWORD

Data: 0x258

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MRXDAV\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 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 00Ÿ...
 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\MRXSmb
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x2

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x5

Value 4
 Name: ImagePath

```

Type:          REG_EXPAND_SZ
Data:          system32\DRIVERS\mrxsm.sys

Value 5
Name:          DisplayName
Type:          REG_SZ
Data:          MRXSMB

Value 6
Name:          Group
Type:          REG_SZ
Data:          Network

Value 7
Name:          Description
Type:          REG_SZ
Data:          MRXSMB

Value 8
Name:          LastLoadStatus
Type:          REG_DWORD
Data:          0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MRxSmb\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name:          CscEnabled
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MRxSmb\Security
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 12 00 00 00 00
00 18 00  .....
00000050  ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00  Ÿ.....
00000060  20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00  .....
00000070  00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00  .....Ÿ...
00000080  01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00  .....#...

```

```

00000090  01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00  .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MRxSmb\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          Root\LEGACY_MRXSMB\0000

Value 1
Name:          Count
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSDTC
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x10

Value 1
Name:          Start
Type:          REG_DWORD
Data:          0x2

Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 3
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          C:\WINDOWS\system32\msdtc.exe

Value 4
Name:          DisplayName
Type:          REG_SZ
Data:          Distributed Transaction
Coordinator

Value 5
Name:          Group
Type:          REG_SZ
Data:          MS Transactions

```

```

Value 6
Name:          DependOnService
Type:          REG_MULTI_SZ
Data:          RPCSS
SamSS

Value 7
Name:          DependOnGroup
Type:          REG_MULTI_SZ
Data:

Value 8
Name:          ObjectName
Type:          REG_SZ
Data:          NT AUTHORITY\NetworkService

Value 9
Name:          Description
Type:          REG_SZ
Data:          Coordinates transactions that span
multiple resource managers, such as databases,
message queues, and file systems. If this service is
stopped, these transactions will not occur. If this
service is disabled, any services that explicitly
depend on it will fail to start.

Value 10
Name:          FailureActions
Type:          REG_BINARY
Data:
00000000  1e 00 00 00 00 00 00 00 - 00 00 00 00 04
00 00 00  .....
00000010  ff ff ff ff 01 00 00 00 - e8 03 00 00 01
00 00 00  ŸŸŸŸ....ê.....
00000020  f8 2a 00 00 01 00 00 00 - 08 52 00 00 00
00 00 00  ø*.....R.....
e8 03 00 00
è...

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSDTC\Performance
Class Name:    <NO CLASS>
Last Write Time: 4/4/2004 - 5:08 AM
Value 0
Name:          Library
Type:          REG_SZ
Data:          msdtcui.dll

Value 1
Name:          Open
Type:          REG_SZ
Data:          DtcPerfOpen

Value 2
Name:          Collect
Type:          REG_SZ
Data:          DtcPerfCollect

Value 3
Name:          Close
Type:          REG_SZ

```

Data: DtcPerfClose

Value 4
Name: PerfIniFile
Type: REG_SZ
Data: msdtcprf.ini

Value 5
Name: Last Counter
Type: REG_DWORD
Data: 0x85e

Value 6
Name: Last Help
Type: REG_DWORD
Data: 0x85f

Value 7
Name: First Counter
Type: REG_DWORD
Data: 0x844

Value 8
Name: First Help
Type: REG_DWORD
Data: 0x845

Value 9
Name: Object List
Type: REG_SZ
Data: 2116

Value 10
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 85 ec 0d b4 e3 5f 8f f5 - ad 90 71 2e bd
dc 18 31 .i."ä_.ö-.q.ÿ.1

Value 11
Name: WbemAdapFileTime
Type: REG_BINARY
Data: 44 3c f6 18 d9 db c3 01 -
D<ö.ÜÜÄ.

Value 12
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x27800

Value 13
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSDTC\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: Security
Type: REG_BINARY
Data: 00000000 01 00 14 80 a4 00 00 00 - b0 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 74 00 05 00 00 00 - 00 00 14 00 9d
01 02 00 .t.....
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000090 00 00 14 00 9f 00 02 00 - 01 01 00 00 00
00 00 05
000000a0 14 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00
01 01 00 00 00 00 05 - 12 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSDTC\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_MSDTC\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Msfs
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group

Type: REG_SZ
Data: File system

Value 2
Name: Start
Type: REG_DWORD
Data: 0x1

Value 3
Name: Type
Type: REG_DWORD
Data: 0x2

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Msfs\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_MSFS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSIServer
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Description
Type: REG_SZ
Data: Adds, modifies, and removes
applications provided as a Windows Installer (*.msi)
package. If this service is disabled, any services
that explicitly depend on it will fail to start.

Value 1
Name: Type
Type: REG_DWORD
Data: 0x20

Value 2
Name: Start
Type: REG_DWORD
Data: 0x3

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\msiexec.exe /V

Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: Windows Installer

Value 6
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: RpcSs

Value 7
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 8
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 MSIServer\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: Security
 Type: REG_BINARY
 Data:
 00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
 00 00 00
 00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
 80 14 00 0.....
 00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
 00 00 00 ŷ.....
 00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
 01 02 00 ..ŷ.....
 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 ŷ.....
 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 ..ŷ.....
 00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 MSIServer\Enum
 Class Name: <NO CLASS>

Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_MSISERVER\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 MSSCNTRS
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:05 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 MSSCNTRS\Performance
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:05 AM

Value 0
 Name: Library
 Type: REG_SZ
 Data: C:\PROGRA-1\COMMON-1\System\MSSearch\Bin\msscncntrs.dll

Value 1
 Name: Open
 Type: REG_SZ
 Data: Open

Value 2
 Name: Close
 Type: REG_SZ
 Data: Close

Value 3
 Name: Collect
 Type: REG_SZ
 Data: Collect

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 MSSEARCH
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x20

Value 1
 Name: Start
 Type: REG_DWORD

Data: 0x4

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: "C:\Program Files\Common
 Files\System\MSSearch\Bin\mssearch.exe"

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Microsoft Search

Value 5
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: RPCSS
 NTLMSSP

Value 6
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 7
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 8
 Name: Description
 Type: REG_SZ
 Data: Creates full-text indexes on
 content and properties of structured and semi-
 structured data to allow fast linguistic searches on
 this data

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 MSSEARCH\Performance
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:18 AM

Value 0
 Name: PerfIniFile
 Type: REG_SZ
 Data: DssCntrs.ini

Value 1
 Name: Last Counter
 Type: REG_DWORD
 Data: 0xdd2

Value 2
 Name: Last Help
 Type: REG_DWORD
 Data: 0xdd3

```

Value 3
  Name:      First Counter
  Type:      REG_DWORD
  Data:      0xda2

Value 4
  Name:      First Help
  Type:      REG_DWORD
  Data:      0xda3

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSSEARCH\Security
Class Name:      <NO CLASS>
Last Write Time: 4/4/2004 - 5:06 AM
Value 0
  Name:      Security
  Type:      REG_BINARY
  Data:
00000000  01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00  .....
00000010  30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00  .....
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.....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 05 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\
MSSEARCH\Enum
Class Name:      <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name:      0
  Type:      REG_SZ
  Data:      Root\LEGACY_MSSEARCH\0000

Value 1
  Name:      Count
  Type:      REG_DWORD
  Data:      0x1

Value 2
  Name:      NextInstance
  Type:      REG_DWORD
  Data:      0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSSGatherer
Class Name:      <NO CLASS>
Last Write Time: 4/4/2004 - 5:06 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSSGatherer\Performance
Class Name:      <NO CLASS>
Last Write Time: 4/4/2004 - 5:18 AM
Value 0
  Name:      PerfIniFile
  Type:      REG_SZ
  Data:      GSrvCtr.ini

Value 1
  Name:      Last Counter
  Type:      REG_DWORD
  Data:      0xd54

Value 2
  Name:      Last Help
  Type:      REG_DWORD
  Data:      0xd55

Value 3
  Name:      First Counter
  Type:      REG_DWORD
  Data:      0xcce

Value 4
  Name:      First Help
  Type:      REG_DWORD
  Data:      0xcce

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSSGTHRSVC
Class Name:      <NO CLASS>
Last Write Time: 4/4/2004 - 5:06 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSSGTHRSVC\Performance
Class Name:      <NO CLASS>
Last Write Time: 4/4/2004 - 5:18 AM
Value 0
  Name:      PerfIniFile
  Type:      REG_SZ
  Data:      GthrCtr.ini

Value 1
  Name:      Last Counter
  Type:      REG_DWORD
  Data:      0xda0

Value 2
  Name:      Last Help
  Type:      REG_DWORD

```

```

Data:      0xda1

Value 3
  Name:      First Counter
  Type:      REG_DWORD
  Data:      0xd56

Value 4
  Name:      First Help
  Type:      REG_DWORD
  Data:      0xd57

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
msindex
Class Name:      <NO CLASS>
Last Write Time: 4/4/2004 - 5:06 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
msindex\Performance
Class Name:      <NO CLASS>
Last Write Time: 4/4/2004 - 5:18 AM
Value 0
  Name:      PerfIniFile
  Type:      REG_SZ
  Data:      nlindctr.ini

Value 1
  Name:      Last Counter
  Type:      REG_DWORD
  Data:      0xcea

Value 2
  Name:      Last Help
  Type:      REG_DWORD
  Data:      0xceb

Value 3
  Name:      First Counter
  Type:      REG_DWORD
  Data:      0xcd2

Value 4
  Name:      First Help
  Type:      REG_DWORD
  Data:      0xcd3

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
MSSQLSERVER
Class Name:      <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name:      Type
  Type:      REG_DWORD
  Data:      0x10

Value 1
  Name:      Start
  Type:      REG_DWORD

```

```

Data:          0x3
Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1
Value 3
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          C:\PROGRA-1\MICROS-1\MSSQL\bin\sqlservr.exe
Value 4
Name:          DisplayName
Type:          REG_SZ
Data:          MSSQLSERVER
Value 5
Name:          ObjectName
Type:          REG_SZ
Data:          LocalSystem
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Linkage
Class Name:    <NO CLASS>
Last Write Time: 4/4/2004 - 5:11 AM
Value 0
Name:          Export
Type:          REG_MULTI_SZ
Data:          MSSQLSERVER
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Performance
Class Name:    <NO CLASS>
Last Write Time: 4/4/2004 - 5:11 AM
Value 0
Name:          Library
Type:          REG_SZ
Data:          C:\PROGRA-1\MICROS-1\MSSQL\BINN\SQLCTR80.DLL
Value 1
Name:          Collect
Type:          REG_SZ
Data:          CollectSQLPerformanceData
Value 2
Name:          Open
Type:          REG_SZ
Data:          OpenSQLPerformanceData
Value 3
Name:          Close
Type:          REG_SZ
Data:          CloseSQLPerformanceData
Value 4
Name:          PerfIniFile

```

```

Type:          REG_SZ
Data:          sqlctr.ini
Value 5
Name:          Last Counter
Type:          REG_DWORD
Data:          0xcb4
Value 6
Name:          Last Help
Type:          REG_DWORD
Data:          0xcb5
Value 7
Name:          First Counter
Type:          REG_DWORD
Data:          0xba0
Value 8
Name:          First Help
Type:          REG_DWORD
Data:          0xba1
Value 9
Name:          WbemAdapFileSignature
Type:          REG_BINARY
Data:          00000000 d6 a0 b9 c1 d1 85 78 63 - 4f 31 8b f2 18
51 1a 5d 0 'ÃÑ.xc01.ð.Q.]
Value 10
Name:          WbemAdapFileTime
Type:          REG_BINARY
Data:          94 39 90 81 2c 1a c4 01 -
.9...Ã.
Value 11
Name:          WbemAdapFileSize
Type:          REG_DWORD
Data:          0x803b
Value 12
Name:          WbemAdapStatus
Type:          REG_DWORD
Data:          0
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Security
Class Name:    <NO CLASS>
Last Write Time: 4/4/2004 - 5:11 AM
Value 0
Name:          Security
Type:          REG_BINARY
Data:          00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....

```

```

00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 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\MSSQLSERVER\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          Root\LEGACY_MSSQLSERVER\0000
Value 1
Name:          Count
Type:          REG_DWORD
Data:          0x1
Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLServerADHelper
Class Name:    <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x10
Value 1
Name:          Start
Type:          REG_DWORD
Data:          0x3
Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1
Value 3
Name:          ImagePath

```

Type: REG_EXPAND_SZ
Data: C:\Program Files\Microsoft SQL Server\80\Tools\Binn\sqladhlp.exe

Value 4
Name: DisplayName
Type: REG_SZ
Data: MSSQLServerADHelper

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLServerADHelper\Security
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM

Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..Ÿ.....
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 ..Ÿ.....
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MultEvent
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data:

\\?\C:\WINDOWS\system32\drivers\MultEventDriver.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: MultEvent Driver

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MultEvent\Security
Class Name: <NO CLASS>
Last Write Time: 1/28/2004 - 12:00 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 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 ..Ÿ.....
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MultEvent\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_MULTIEVENT\0000

Value 1
Name: Count
Type: REG_DWORD

Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Mup
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: DisplayName
Type: REG_SZ
Data: Mup

Value 1
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 2
Name: Group
Type: REG_SZ
Data: Network

Value 3
Name: Start
Type: REG_DWORD
Data: 0

Value 4
Name: Tag
Type: REG_DWORD
Data: 0x2

Value 5
Name: Type
Type: REG_DWORD
Data: 0x2

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Mup\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Mup\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_MUP\0000

Value 1
Name: Count
Type: REG_DWORD

Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DisplayName
Type: REG_SZ
Data: NDIS System Driver

Value 1
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 2
Name: Group
Type: REG_SZ
Data: NDIS Wrapper

Value 3
Name: Start
Type: REG_DWORD
Data: 0

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\MediaTypes
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/26/2004 - 3:51 PM
Value 0
Name: ProcessorAffinityMask
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NDIS\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0

Type: REG_SZ
Data: Root\LEGACY_NDIS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NdisTapi
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ndistapi.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: Remote Access NDIS TAPI Driver

Value 5
Name: Description
Type: REG_SZ
Data: Remote Access NDIS TAPI Driver

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NdisTapi\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: AsyncEventQueueSize
Type: REG_DWORD
Data: 0x300

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NdisTapi\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NdisTapi\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_NDIS\TAPI\0000

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: Root\MS_NDISWANIP\0000

Value 4
Name: 2
Type: REG_SZ
Data: Root\MS_PPPOEMINI\PORT\0000

Value 5
 Name: 3
 Type: REG_SZ
 Data: Root\MS_PPTPMINIPORT\0000

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ndisuio
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0xb

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\ndisuio.sys

Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: NDIS Usermode I/O Protocol

Value 6
 Name: Group
 Type: REG_SZ
 Data: NDIS

Value 7
 Name: Description
 Type: REG_SZ
 Data: NDIS Usermode I/O Protocol

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ndisuio\Linkage
 Class Name: <NO CLASS>
 Last Write Time: 5/3/2004 - 1:24 PM

Value 0
 Name: Bind
 Type: REG_MULTI_SZ
 Data: \Device\{CE7A3254-EC99-4338-B407-7465734E5082}

\Device\{4349E852-A14E-4787-9E1A-431287E38C02}

Value 1
 Name: Route
 Type: REG_MULTI_SZ
 Data: "{CE7A3254-EC99-4338-B407-7465734E5082}"
 "{4349E852-A14E-4787-9E1A-431287E38C02}"

Value 2
 Name: Export
 Type: REG_MULTI_SZ
 Data: \Device\Ndisuio_{CE7A3254-EC99-4338-B407-7465734E5082}\Device\Ndisuio_{4349E852-A14E-4787-9E1A-431287E38C02}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ndisuio\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 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 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 00Ÿ...
 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\Ndisuio\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_NDISUIO\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NdisWan
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\ndiswan.sys

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Remote Access NDIS WAN Driver

Value 5
 Name: Description
 Type: REG_SZ
 Data: Remote Access NDIS WAN Driver

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NdisWan\Linkage
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: Bind
 Type: REG_MULTI_SZ
 Data: \Device\{04EA7DB2-8C1E-48FC-8EFD-992034775F6E}
 \Device\{3CC516F4-8848-43EA-99B6-E495D5729E46}
 \Device\{7807C374-8578-49D5-8FB7-2C4E320A12EF}
 \Device\{A8416954-3FB4-40C8-9F8E-E5C19D6F94A9}

```

\Device\{13E97035-75CA-4E20-AD13-
700ACAC1C756}

Value 1
  Name: Route
  Type: REG_MULTI_SZ
  Data: "{04EA7DB2-8C1E-48FC-8EFD-
992034775F6E}"
        "{3CC516F4-8848-43EA-99B6-
E495D5729E46}"
        "{7807C374-8578-49D5-8FB7-
2C4E320A12EF}"
        "{A8416954-3FB4-40C8-9F8E-
E5C19D6F94A9}"
        "{13E97035-75CA-4E20-AD13-
700ACAC1C756}"

Value 2
  Name: Export
  Type: REG_MULTI_SZ
  Data: \Device\NdisWan_{04EA7DB2-8C1E-
48FC-8EFD-992034775F6E}
        \Device\NdisWan_{3CC516F4-8848-
43EA-99B6-E495D5729E46}
        \Device\NdisWan_{7807C374-8578-
49D5-8FB7-2C4E320A12EF}
        \Device\NdisWan_{A8416954-3FB4-
40C8-9F8E-E5C19D6F94A9}
        \Device\NdisWan_{13E97035-75CA-
4E20-AD13-700ACAC1C756}

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NdisWan\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NdisWan\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...

```

```

00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NdisWan\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name: 0
  Type: REG_SZ
  Data: Root\MS_NDISWANIP\0000

Value 1
  Name: Count
  Type: REG_DWORD
  Data: 0x1

Value 2
  Name: NextInstance
  Type: REG_DWORD
  Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NDProxy
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name: DisplayName
  Type: REG_MULTI_SZ
  Data: NDIS Proxy

Value 1
  Name: ErrorControl
  Type: REG_DWORD
  Data: 0x1

Value 2
  Name: Group
  Type: REG_SZ
  Data: PNP_TDI

Value 3
  Name: Start
  Type: REG_DWORD
  Data: 0x3

Value 4
  Name: Type
  Type: REG_DWORD
  Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NDProxy\Enum

```

```

Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name: 0
  Type: REG_SZ
  Data: Root\LEGACY_NDPROXY\0000

Value 1
  Name: Count
  Type: REG_DWORD
  Data: 0x1

Value 2
  Name: NextInstance
  Type: REG_DWORD
  Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetBIOS
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name: Type
  Type: REG_DWORD
  Data: 0x2

Value 1
  Name: Start
  Type: REG_DWORD
  Data: 0x1

Value 2
  Name: ErrorControl
  Type: REG_DWORD
  Data: 0x1

Value 3
  Name: Tag
  Type: REG_DWORD
  Data: 0x1

Value 4
  Name: ImagePath
  Type: REG_EXPAND_SZ
  Data: system32\DRIVERS\netbios.sys

Value 5
  Name: DisplayName
  Type: REG_SZ
  Data: NetBIOS Interface

Value 6
  Name: Group
  Type: REG_SZ
  Data: NetBIOSGroup

Value 7
  Name: Description
  Type: REG_SZ
  Data: NetBIOS Interface

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetBIOS\Linkage
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: LanaMap
Type: REG_BINARY
Data:
01 00 01 03 00 01 00 02 -
.....

Value 1
Name: Bind
Type: REG_MULTI_SZ
Data: \Device\NetBT_Tcpip_{CE7A3254-
EC99-4338-B407-7465734E5082}
\Device\NetBT_Tcpip_{4349E852-
A14E-4787-9E1A-431287E38C02}
\Device\NetBT_Tcpip_{C9AAEDDF-
6B65-4D92-A4D6-D9F8D6EAA4E8}
\Device\NetBT_Tcpip_{9C47CAE5-
9799-4E1E-A92E-4D3D2644658E}

Value 2
Name: Route
Type: REG_MULTI_SZ
Data: "NetBT" "Tcpip" "{CE7A3254-EC99-
4338-B407-7465734E5082}"
"NetBT" "Tcpip" "{4349E852-A14E-
4787-9E1A-431287E38C02}"
"NetBT" "Tcpip" "NdisWanIp"

Value 3
Name: Export
Type: REG_MULTI_SZ
Data:
\Device\NetBIOS_NetBT_Tcpip_{CE7A3254-EC99-4338-B407-
7465734E5082}

\Device\NetBIOS_NetBT_Tcpip_{4349E852-A14E-4787-9E1A-
431287E38C02}

\Device\NetBIOS_NetBT_Tcpip_{C9AAEDDF-6B65-4D92-A4D6-
D9F8D6EAA4E8}

\Device\NetBIOS_NetBT_Tcpip_{9C47CAE5-9799-4E1E-A92E-
4D3D2644658E}

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetBIOS\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM
Value 0
Name: MaxLana
Type: REG_DWORD
Data: 0x3

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetBIOS\Parameters\Winsoc
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: HelperDllName
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\wshnetbs.dll

Value 1
Name: MaxSockAddrLength
Type: REG_DWORD
Data: 0x14

Value 2
Name: MinSockAddrLength
Type: REG_DWORD
Data: 0x14

Value 3
Name: Mapping
Type: REG_BINARY
Data:
00000000 02 00 00 00 03 00 00 00 - 11 00 00 00 05
00 00 00 .....
00000010 00 00 00 00 11 00 00 00 - 02 00 00 00 00
00 00 00 .....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetBIOS\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 ý.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..`.....ý...
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ý.....
00000060 20 02 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....ý...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 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\
NetBIOS\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_NETBIOS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetBT
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x1

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x6

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\netbt.sys

Value 5
Name: DisplayName
Type: REG_SZ
Data: NetBios over Tcpip

Value 6
Name: Group
Type: REG_SZ
Data: PNP_TDI

Value 7

```

Name: DependOnService
 Type: REG_MULTI_SZ
 Data: Tcpip

Value 8
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 9
 Name: Description
 Type: REG_SZ
 Data: NetBios over Tcpip

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Linkage
 Class Name: <NO CLASS>
 Last Write Time: 5/3/2004 - 1:24 PM

Value 0
 Name: OtherDependencies
 Type: REG_MULTI_SZ
 Data: Tcpip

Value 1
 Name: Bind
 Type: REG_MULTI_SZ
 Data: \Device\Tcpip_{CE7A3254-EC99-4338-B407-7465734E5082} \Device\Tcpip_{4349E852-A14E-4787-9E1A-431287E38C02} \Device\Tcpip_{C9AAEDF-6B65-4D92-A4D6-D9F8D6EAA4E8} \Device\Tcpip_{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}

Value 2
 Name: Route
 Type: REG_MULTI_SZ
 Data: "Tcpip" "{CE7A3254-EC99-4338-B407-7465734E5082}" "Tcpip" "{4349E852-A14E-4787-9E1A-431287E38C02}" "Tcpip" "NdisWanIp"

Value 3
 Name: Export
 Type: REG_MULTI_SZ
 Data: \Device\NetBT_Tcpip_{CE7A3254-EC99-4338-B407-7465734E5082} \Device\NetBT_Tcpip_{4349E852-A14E-4787-9E1A-431287E38C02} \Device\NetBT_Tcpip_{C9AAEDF-6B65-4D92-A4D6-D9F8D6EAA4E8} \Device\NetBT_Tcpip_{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Parameters
 Class Name: <NO CLASS>

Last Write Time: 9/15/2004 - 3:20 PM

Value 0
 Name: NbProvider
 Type: REG_SZ
 Data: _tcp

Value 1
 Name: NameServerPort
 Type: REG_DWORD
 Data: 0x89

Value 2
 Name: CacheTimeout
 Type: REG_DWORD
 Data: 0x927c0

Value 3
 Name: BcastNameQueryCount
 Type: REG_DWORD
 Data: 0x3

Value 4
 Name: BcastQueryTimeout
 Type: REG_DWORD
 Data: 0x2ee

Value 5
 Name: NameSrvQueryCount
 Type: REG_DWORD
 Data: 0x3

Value 6
 Name: NameSrvQueryTimeout
 Type: REG_DWORD
 Data: 0x5dc

Value 7
 Name: Size/Small/Medium/Large
 Type: REG_DWORD
 Data: 0x1

Value 8
 Name: SessionKeepAlive
 Type: REG_DWORD
 Data: 0x36ee80

Value 9
 Name: TransportBindName
 Type: REG_SZ
 Data: \Device\

Value 10
 Name: EnableLMHOSTS
 Type: REG_DWORD
 Data: 0x1

Value 11
 Name: EnableProxy
 Type: REG_DWORD
 Data: 0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Parameters\Interfaces
 Class Name: <NO CLASS>
 Last Write Time: 9/3/2004 - 10:01 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Parameters\Interfaces\Tcpip_{4349E852-A14E-4787-9E1A-431287E38C02}
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 10:30 PM

Value 0
 Name: NameServerList
 Type: REG_MULTI_SZ
 Data:

Value 1
 Name: NetbiosOptions
 Type: REG_DWORD
 Data: 0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Parameters\Interfaces\Tcpip_{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: NameServerList
 Type: REG_MULTI_SZ
 Data:

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Parameters\Interfaces\Tcpip_{C9AAEDF-6B65-4D92-A4D6-D9F8D6EAA4E8}
 Class Name: <NO CLASS>
 Last Write Time: 9/15/2004 - 3:20 PM

Value 0
 Name: NameServerList
 Type: REG_MULTI_SZ
 Data:

Value 1
 Name: RASFlags
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NetBT\Parameters\Interfaces\Tcpip_{CE7A3254-EC99-4338-B407-7465734E5082}
 Class Name: <NO CLASS>
 Last Write Time: 5/3/2004 - 1:24 PM

Value 0
 Name: NameServerList
 Type: REG_MULTI_SZ
 Data:

```

Value 1
  Name: NetbiosOptions
  Type: REG_DWORD
  Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetBT\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
  Name: Security
  Type: REG_BINARY
  Data:
00000000 01 00 14 80 e8 00 00 00 - f4 00 00 00 14
00 00 00 .....è...ð.....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 ý.....ý.....
00000030 02 00 b8 00 08 00 00 00 - 00 00 14 00 8d
01 02 00 .....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....ý.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 18 00 .....
00000080 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ý.....
00000090 25 02 00 00 00 00 14 00 - fd 01 02 00 01
01 00 00 %.....ý.....
000000a0 00 00 00 05 12 00 00 00 - 00 00 14 00 40
00 00 00 .....@...
000000b0 01 01 00 00 00 00 05 - 13 00 00 00 00
00 14 00 .....
000000c0 40 00 00 00 01 01 00 00 - 00 00 00 05 14
00 00 00 @.....
000000d0 00 00 18 00 ff 01 0f 00 - 01 02 00 00 00
00 00 05 ...ý.....
000000e0 20 00 00 00 2c 02 00 00 - 01 01 00 00 00
00 00 05 .....
000000f0 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetBT\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
  Name: 0
  Type: REG_SZ
  Data: Root\LEGACY_NETBT\0000

Value 1
  Name: Count
  Type: REG_DWORD

```

```

Data: 0x1

Value 2
  Name: NextInstance
  Type: REG_DWORD
  Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetDDE
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
  Name: DependOnService
  Type: REG_MULTI_SZ
  Data: NetDDESDM

Value 1
  Name: Description
  Type: REG_SZ
  Data: Provides network transport and
security for Dynamic Data Exchange (DDE) for programs
running on the same computer or on different
computers. If this service is stopped, DDE transport
and security will be unavailable. If this service is
disabled, any services that explicitly depend on it
will fail to start.

Value 2
  Name: DisplayName
  Type: REG_SZ
  Data: Network DDE

Value 3
  Name: ErrorControl
  Type: REG_DWORD
  Data: 0x1

Value 4
  Name: Group
  Type: REG_SZ
  Data: NetDDEGroup

Value 5
  Name: ImagePath
  Type: REG_EXPAND_SZ
  Data: %SystemRoot%\system32\netdde.exe

Value 6
  Name: ObjectName
  Type: REG_SZ
  Data: LocalSystem

Value 7
  Name: Start
  Type: REG_DWORD
  Data: 0x4

Value 8
  Name: Type
  Type: REG_DWORD
  Data: 0x20

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetDDE\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
  Name: Security
  Type: REG_BINARY
  Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 ý.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
00 02 00 ..\.....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ý.....
00000060 20 02 00 00 00 00 18 00 - 8d 00 02 00 01
02 00 00 .....
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 00
00 14 00 ....#.
00000080 9d 00 00 00 01 01 00 00 - 00 00 00 05 04
00 00 00 .....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetDDEsdm
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
  Name: DependOnService
  Type: REG_MULTI_SZ
  Data:

Value 1
  Name: Description
  Type: REG_SZ
  Data: Manages Dynamic Data Exchange
(DDE) network shares. If this service is stopped, DDE
network shares will be unavailable. If this service
is disabled, any services that explicitly depend on
it will fail to start.

Value 2
  Name: DisplayName
  Type: REG_SZ
  Data: Network DDE DSDM

Value 3
  Name: ErrorControl
  Type: REG_DWORD
  Data: 0x1

```

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\netdde.exe

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Start
Type: REG_DWORD
Data: 0x4

Value 7
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NetDDEdsgm\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
00 02 00 ..`.....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 y.....
00000060 20 02 00 00 00 00 18 00 - 8d 00 02 00 01
02 00 00
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 00
00 14 00#.....
00000080 9d 00 00 00 01 01 00 00 - 00 00 00 05 04
00 00 00
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Netlogon
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD

Data: 0x20
Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\lsass.exe

Value 4
Name: DisplayName
Type: REG_SZ
Data: Net Logon

Value 5
Name: Group
Type: REG_SZ
Data: MS_WindowsRemoteValidation

Value 6
Name: DependOnService
Type: REG_MULTI_SZ
Data: LanmanWorkstation

Value 7
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 8
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 9
Name: Description
Type: REG_SZ
Data: Maintains a secure channel between
this computer and the domain controller for
authenticating users and services. If this service is
stopped, the computer may not authenticate users and
services and the domain controller cannot register
DNS records. If this service is disabled, any
services that explicitly depend on it will fail to
start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Netlogon\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: DisablePasswordChange
Type: REG_DWORD

Data: 0
Value 1
Name: maximumpasswordage
Type: REG_DWORD
Data: 0x1e

Value 2
Name: requiresignorseal
Type: REG_DWORD
Data: 0x1

Value 3
Name: requirestrongkey
Type: REG_DWORD
Data: 0

Value 4
Name: sealsecurechannel
Type: REG_DWORD
Data: 0x1

Value 5
Name: signsecurechannel
Type: REG_DWORD
Data: 0x1

Value 6
Name: Update
Type: REG_SZ
Data: no

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Netlogon\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
01 02 00 ..`.....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....y.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 y.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00

00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Netlogon\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_NETLOGON\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Netman
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs

Value 1
Name: Description
Type: REG_SZ
Data: Manages objects in the Network and
Dial-Up Connections folder, in which you can view
both local area network and remote connections. If
this service is disabled, you will not be able to
view local area network and remote connections and
any services that explicitly depend on it will fail
to start.

Value 2
Name: DisplayName
Type: REG_SZ
Data: Network Connections

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k netsvcs

Value 5

Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Start
Type: REG_DWORD
Data: 0x3

Value 7
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Netman\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\netman.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Netman\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_NETMAN\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
nfrd960
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

Value 2

Name: Start
Type: REG_DWORD
Data: 0x4

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x35

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
nfrd960\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
nfrd960\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Nla
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

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

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Network Location Awareness (NLA)

Value 5
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: Tcpip
 Afd

Value 6
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 7
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 8
 Name: Description
 Type: REG_SZ
 Data: Collects and stores network configuration and location information, and notifies applications when this information changes.

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Nla\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: ServiceDll
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\mswsock.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Nla\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: Security
 Type: REG_BINARY
 Data:
 00000000 01 00 14 80 7c 00 00 00 - 88 00 00 00 14
 00 00 00|.....
 00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
 80 14 00 0.....
 00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
 00 00 00 ý.....
 00000030 02 00 4c 00 03 00 00 00 - 00 00 14 00 9d
 01 02 00 ..L.....
 00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
 00 18 00
 00000050 fd 01 02 00 01 02 00 00 - 00 00 00 05 20
 00 00 00 ý.....
 00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
 02 00 00 #.....ý.....
 00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 01
 01 00 00
 00000080 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\Nla\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_NLA\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Npfs
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: File system

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Type
 Type: REG_DWORD
 Data: 0x2

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Npfs\Aliases
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: lsass
 Type: REG_MULTI_SZ
 Data: protected_storage
 netlogon
 lsarpc
 samr

Value 1
 Name: ntsvcs
 Type: REG_MULTI_SZ
 Data: eventlog
 svcctl

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Npfs\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_NPFS\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\NtFrs
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: EventLog
 RpcSs
 EventSystem

Value 1
 Name: Description
 Type: REG_SZ
 Data: Allows files to be automatically copied and maintained simultaneously on multiple servers. If this service is stopped, file replication will not occur and servers will not synchronize. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 2
 Name: DisplayName
 Type: REG_SZ
 Data: File Replication

Value 3
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 4
 Name: ImagePath

Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\ntfrs.exe

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Start
Type: REG_DWORD
Data: 0x3

Value 7
Name: Type
Type: REG_DWORD
Data: 0x10

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NtFrs\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: Working Directory
Type: REG_EXPAND_SZ
Data: %SystemRoot%\ntfrs

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NtFrs\Parameters\SysVol
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NtFrs\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_NTFRS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Ntfs
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: File system

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

Value 3
Name: Type
Type: REG_DWORD
Data: 0x2

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Ntfs\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_NTFS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NtLmSsp
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath

Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\lsass.exe

Value 4
Name: DisplayName
Type: REG_SZ
Data: NT LM Security Support Provider

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Description
Type: REG_SZ
Data: Provides security to remote procedure call (RPC) programs that use transports other than named pipes.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NtLmSsp\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 00Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NtLmSsp\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_NTLMSSP\0000

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NtmsSvc
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Removable Storage

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 8
Name: Description
Type: REG_SZ
Data: Manages and catalogs removable
media and operates automated removable media devices.

```

```

If this service is stopped, programs that are
dependent on Removable Storage, such as Backup and
Remote Storage, will operate more slowly. If this
service is disabled, any services that explicitly
depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NtmsSvc\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\ntmssvc.dll

Value 1
Name: ShutdownTimeout
Type: REG_DWORD
Data: 0x7530

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
NtmsSvc\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00 ..`.....
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
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\
Null
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data:

```

```

Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: Base

Value 2
Name: Start
Type: REG_DWORD
Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Null\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_NULL\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Parport
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 1
Name: Group
Type: REG_SZ
Data: Parallel arbitrator

Value 2
Name: Start
Type: REG_DWORD

```

Data: 0x3

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 PartMgr
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: DisplayName
 Type: REG_SZ
 Data: Partition Manager

Value 1
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: Group
 Type: REG_SZ
 Data: System Bus Extender

Value 3
 Name: Start
 Type: REG_DWORD
 Data: 0

Value 4
 Name: Tag
 Type: REG_DWORD
 Data: 0x6

Value 5
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 PartMgr\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_PARTMGR\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x15

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x15

Value 3
 Name: 1
 Type: REG_SZ
 Data: SCSI\Disk&Ven_COMPAQ&Prod_LOGICAL_VOLUME&Rev_2.58\5&208597a6&0&040

Value 4
 Name: 2
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&3182b25d&0&0000004000000000

Value 5
 Name: 3
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&3182b25d&0&0100004000000000

Value 6
 Name: 4
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&28b216e6&0&0000004000000000

Value 7
 Name: 5
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&28b216e6&0&0100004000000000

Value 8
 Name: 6
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&1f6c26&0&0000004000000000

Value 9
 Name: 7
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&1f6c26&0&0100004000000000

Value 10
 Name: 8
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&1f6c26&0&0200004000000000

Value 11

Name: 9
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&18f8e1e&0&0000004000000000

Value 12
 Name: 10
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&18f8e1e&0&0100004000000000

Value 13
 Name: 11
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&18f8e1e&0&0200004000000000

Value 14
 Name: 12
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&208896bc&0&0000004000000000

Value 15
 Name: 13
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&208896bc&0&0100004000000000

Value 16
 Name: 14
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&208896bc&0&0200004000000000

Value 17
 Name: 15
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_HP&PROD_LOGICAL_VOLUME\5&c633b0d&0&000014001000000

Value 18
 Name: 16
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&4a1e610&0&0000004000000000

Value 19
 Name: 17
 Type: REG_SZ
 Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&4a1e610&0&0100004000000000

Value 20

Name: 18
Type: REG_SZ
Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&d728187&0&00000400000000

Value 21
Name: 19
Type: REG_SZ
Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&d728187&0&0100004000000000

Value 22
Name: 20
Type: REG_SZ
Data: HPQCISS\Disk&VEN_COMPAQ&PROD_LOGICAL_VOLUME\5&d728187&0&0200004000000000

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PCI
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x3

Value 1
Name: Group
Type: REG_SZ
Data: Boot Bus Extender

Value 2
Name: Start
Type: REG_DWORD
Data: 0

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x2

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Value 5
Name: DisplayName
Type: REG_SZ
Data: PCI Bus Driver

Value 6
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\pci.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PCI\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 1045C621
Type: REG_BINARY
Data: 04 00 00 00 00 00 00 00 -
.....

Value 1
Name: 10950640
Type: REG_BINARY
Data: 04 00 00 00 00 00 00 00 -
.....

Value 2
Name: 80861230
Type: REG_BINARY
Data: 04 00 00 00 00 00 00 00 -
.....

Value 3
Name: 80867010
Type: REG_BINARY
Data: 04 00 00 00 00 00 00 00 -
.....

Value 4
Name: 104B0140
Type: REG_BINARY
Data: 08 00 00 00 00 00 00 00 -
.....

Value 5
Name: 11790603
Type: REG_BINARY
Data: 08 00 00 00 00 00 00 00 -
.....

Value 6
Name: 80867113
Type: REG_BINARY
Data: 08 00 00 00 00 00 00 00 -
.....

Value 7
Name: 497884C5
Type: REG_BINARY
Data: 08 00 00 00 00 00 00 00 -
.....

Value 8
Name: 11063040

Type: REG_BINARY
Data: 08 00 00 00 00 00 00 00 -
.....

Value 9
Name: 0E111000
Type: REG_BINARY
Data: 10 00 00 00 00 00 00 00 -
.....

Value 10
Name: 0E112000
Type: REG_BINARY
Data: 10 00 00 00 00 00 00 00 -
.....

Value 11
Name: 10390406
Type: REG_BINARY
Data: 10 00 00 00 00 00 00 00 -
.....

Value 12
Name: 80860482
Type: REG_BINARY
Data: 00 40 00 00 00 00 00 00 -
.@.....

Value 13
Name: 80860008
Type: REG_BINARY
Data: 10 00 00 00 00 00 00 00 -
.....

Value 14
Name: 10140002
Type: REG_BINARY
Data: 10 00 00 00 00 00 00 00 -
.....

Value 15
Name: 10800600
Type: REG_BINARY
Data: 20 00 00 00 00 00 00 00 -
.....

Value 16
Name: 10131100
Type: REG_BINARY
Data: 40 00 00 00 00 00 00 00 -
@.....

Value 17
Name: 10B95219

Type: REG_BINARY
 Data:
 80 00 00 00 00 00 00 00 -

Value 18
 Name: 1C1C0001
 Type: REG_BINARY
 Data:
 00 01 00 00 00 00 00 00 -

Value 19
 Name: 10970038
 Type: REG_BINARY
 Data:
 00 01 00 00 00 00 00 00 -

Value 20
 Name: 100BD001
 Type: REG_BINARY
 Data:
 00 04 00 00 00 00 00 00 -

Value 21
 Name: 808604A3
 Type: REG_BINARY
 Data:
 00 08 00 00 00 00 00 00 -

Value 22
 Name: 10AA0000
 Type: REG_BINARY
 Data:
 00 08 00 00 00 00 00 00 -

Value 23
 Name: 533388D1
 Type: REG_BINARY
 Data:
 00 00 00 00 01 00 00 00 -

Value 24
 Name: 11790605
 Type: REG_BINARY
 Data:
 00 10 00 00 00 00 00 00 -

Value 25
 Name: 10131110
 Type: REG_BINARY
 Data:
 00 20 00 00 00 00 00 00 -

Value 26
 Name: 11800478

Type: REG_BINARY
 Data:
 00 20 00 00 00 00 00 00 -

Value 27
 Name: 11800475
 Type: REG_BINARY
 Data:
 00 20 00 00 00 00 00 00 -

Value 28
 Name: 11800476
 Type: REG_BINARY
 Data:
 00 20 00 00 00 00 00 00 -

Value 29
 Name: 10040101
 Type: REG_BINARY
 Data:
 00 40 00 00 00 00 00 00 -
 .@.....

Value 30
 Name: 10421000
 Type: REG_BINARY
 Data:
 00 40 00 00 00 00 00 00 -
 .@.....

Value 31
 Name: 104CAC12
 Type: REG_BINARY
 Data:
 00 00 01 00 00 00 00 00 -

Value 32
 Name: 11800466
 Type: REG_BINARY
 Data:
 00 00 01 00 00 00 00 00 -

Value 33
 Name: 10140095
 Type: REG_BINARY
 Data:
 00 00 04 00 00 00 00 00 -

Value 34
 Name: 80862418
 Type: REG_BINARY
 Data:
 00 00 04 00 00 00 00 00 -

Value 35
 Name: 80862428

Type: REG_BINARY
 Data:
 00 00 04 00 00 00 00 00 -

Value 36
 Name: 8086244E
 Type: REG_BINARY
 Data:
 00 00 04 00 00 00 00 00 -

Value 37
 Name: 80862448
 Type: REG_BINARY
 Data:
 00 00 04 00 00 00 00 00 -

Value 38
 Name: 8086122E
 Type: REG_BINARY
 Data:
 00 00 08 00 00 00 00 00 -

Value 39
 Name: 80867000
 Type: REG_BINARY
 Data:
 00 00 08 00 00 00 00 00 -

Value 40
 Name: 80867110
 Type: REG_BINARY
 Data:
 00 00 08 00 00 00 00 00 -

Value 41
 Name: 80867600
 Type: REG_BINARY
 Data:
 00 00 08 00 00 00 00 00 -

Value 42
 Name: 10024747
 Type: REG_BINARY
 Data:
 00 00 40 00 00 00 00 00 -
 ..@.....

Value 43
 Name: 10024754
 Type: REG_BINARY
 Data:
 00 00 00 00 01 00 00 00 -

Value 44
 Name: 53338901

```

Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 45
Name:          101300D6
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 46
Name:          104CAC15
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 47
Name:          110B0004
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 48
Name:          1000000F
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 49
Name:          104CAC17
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 50
Name:          10239397
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 51
Name:          10024742
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 52
Name:          10024744
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 53
Name:          10024749

```

```

Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 54
Name:          10024750
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 55
Name:          10024751
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 56
Name:          10024755
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 57
Name:          10024757
Type:          REG_BINARY
Data:
00 00 40 20 00 00 00 00 -
..@.....

Value 58
Name:          10024759
Type:          REG_BINARY
Data:
00 00 40 20 00 00 00 00 -
..@.....

Value 59
Name:          10024C42
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 60
Name:          10024C44
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 61
Name:          10024C47
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 62
Name:          10024C49

```

```

Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 63
Name:          10024C50
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 64
Name:          10024C51
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 65
Name:          10025654
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 66
Name:          10025655
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 67
Name:          10025656
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 68
Name:          121A0003
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 69
Name:          11C15811
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 70
Name:          1045C861107B9300
Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 71
Name:          1045C8611045C861

```

```

Type:          REG_BINARY
Data:
00 00 40 00 00 00 00 00 -
..@.....

Value 72
Name:          80861231
Type:          REG_BINARY
Data:
00 00 00 01 00 00 00 00 -
.....

Value 73
Name:          12730002
Type:          REG_BINARY
Data:
00 00 00 01 00 00 00 00 -
.....

Value 74
Name:          1014007D
Type:          REG_BINARY
Data:
00 00 00 01 00 00 00 00 -
.....

Value 75
Name:          12850100
Type:          REG_BINARY
Data:
00 00 00 01 00 00 00 00 -
.....

Value 76
Name:          12176836
Type:          REG_BINARY
Data:
00 00 00 08 00 00 00 00 -
.....

Value 77
Name:          12176832
Type:          REG_BINARY
Data:
00 00 00 08 00 00 00 00 -
.....

Value 78
Name:          109107A0
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
.....

Value 79
Name:          80867800
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
.....

Value 80
Name:          10c88005

```

```

Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 81
Name:          10c88006
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 82
Name:          10c80005
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 83
Name:          10c80006
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 84
Name:          102B1001
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 85
Name:          10DD0100
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 86
Name:          10950646
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 87
Name:          10950670
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 88
Name:          10950648
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 89
Name:          10110026

```

```

Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 90
Name:          8086B154
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 91
Name:          53338904
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 92
Name:          11068598
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 93
Name:          11068605
Type:          REG_BINARY
Data:
00 00 00 20 00 00 00 00 -
... ..

Value 94
Name:          11790609
Type:          REG_BINARY
Data:
00 00 00 40 00 00 00 00 -
...@....

Value 95
Name:          10140047
Type:          REG_BINARY
Data:
00 00 00 40 00 00 00 00 -
...@....

Value 96
Name:          102B051B
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 97
Name:          102B0520
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 98
Name:          102B0521

```

```

Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 99
Name:          102B1025
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 100
Name:          102B0525
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 101
Name:          102B2527
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 102
Name:          102B2537
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 103
Name:          102B0527
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 104
Name:          102B0528
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 105
Name:          80867121
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 106
Name:          80867123
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 107
Name:          80867125

```

```

Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 108
Name:          80861132
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 109
Name:          90050050
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 110
Name:          9005005F
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 111
Name:          10024752
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 112
Name:          1002474F
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 113
Name:          1002474D
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 114
Name:          10024753
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 115
Name:          1002474C
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 116
Name:          1002474E

```

```

Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 117
Name:          10024C4D
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 118
Name:          10024C4E
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 119
Name:          10024C52
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 120
Name:          10024C53
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 121
Name:          10239880
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 122
Name:          10DE00A0
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 123
Name:          10DE00A1
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 124
Name:          10DE00A3
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 125
Name:          10DE00B0

```



```

Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 126
Name:          10DE00B1
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 127
Name:          10DE00B3
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 128
Name:          10DE0100
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 129
Name:          10DE0101
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 130
Name:          10DE0102
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 131
Name:          10DE0103
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 132
Name:          10DE0120
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 133
Name:          10DE0121
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 134
Name:          10DE0122

```

```

Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 135
Name:          10DE0123
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 136
Name:          10DE0150
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 137
Name:          10DE0151
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 138
Name:          10DE0152
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 139
Name:          10DE0153
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 140
Name:          10DE0200
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 141
Name:          10DE0201
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 142
Name:          10DE0202
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 143
Name:          10DE0203

```

```

Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 144
Name:          12D20018
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 145
Name:          12D20019
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 146
Name:          10136003
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 147
Name:          3D3D000A
Type:          REG_BINARY
Data:
00 00 00 80 00 00 00 00 -
.....

Value 148
Name:          10024158
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 149
Name:          10024354
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 150
Name:          10024358
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 151
Name:          10024554
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 152
Name:          10024758

```

```

Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 153
Name:          10024C54
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 154
Name:          53338810
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 155
Name:          53338811
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 156
Name:          53338812
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 157
Name:          53338814
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 158
Name:          53338880
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 159
Name:          533388B0
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 160
Name:          533388C0
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 161
Name:          533388C1

```

```

Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 162
Name:          533388D0
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 163
Name:          533388F0
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 164
Name:          53338902
Type:          REG_BINARY
Data:
00 00 00 00 01 00 00 00 -
.....

Value 165
Name:          0E11B109
Type:          REG_BINARY
Data:
00 00 00 00 02 00 00 00 -
.....

Value 166
Name:          100C3202
Type:          REG_BINARY
Data:
00 8a 00 00 00 00 00 00 -
.....

Value 167
Name:          10668002
Type:          REG_BINARY
Data:
00 00 30 00 00 00 00 00 -
..0.....

Value 168
Name:          10660002
Type:          REG_BINARY
Data:
00 00 30 00 00 00 00 00 -
..0.....

Value 169
Name:          10040102
Type:          REG_BINARY
Data:
00 40 00 02 00 00 00 00 -
.@.....

Value 170
Name:          1045C814

```

```

Type:          REG_BINARY
Data:
00 00 40 20 00 00 00 00 -
..@ ....

Value 171
Name:          10024756
Type:          REG_BINARY
Data:
00 00 40 20 00 00 00 00 -
..@ ....

Value 172
Name:          1002475A
Type:          REG_BINARY
Data:
00 00 40 20 00 00 00 00 -
..@ ....

Value 173
Name:          1000000B
Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ....

Value 174
Name:          10DE0020
Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ....

Value 175
Name:          10DE0028
Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ....

Value 176
Name:          10DE0029
Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ....

Value 177
Name:          10DE002A
Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ....

Value 178
Name:          10DE002B
Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ....

Value 179
Name:          10DE002C

```

```

Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ..

Value 180
Name:          10DE002D
Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ..

Value 181
Name:          10DE002E
Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ..

Value 182
Name:          10DE002F
Type:          REG_BINARY
Data:
00 00 00 a0 00 00 00 00 -
... ..

Value 183
Name:          101300D6101880D6
Type:          REG_BINARY
Data:
00 00 00 00 00 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PCI\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          ACPI\PNP0A03\7

Value 1
Name:          Count
Type:          REG_DWORD
Data:          0x9

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x9

Value 3
Name:          1
Type:          REG_SZ
Data:          ACPI\PNP0A03\8

Value 4
Name:          2
Type:          REG_SZ

```

```

Data:
PCI\VEN_1022&DEV_7460&SUBSYS_00000000&REV_07\3&20fea9
12&0&18

Value 5
Name:          3
Type:          REG_SZ
Data:
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_12\3&20fea9
12&0&38

Value 6
Name:          4
Type:          REG_SZ
Data:
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_12\3&20fea9
12&0&40

Value 7
Name:          5
Type:          REG_SZ
Data:
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_12\3&33b859
b7&0&48

Value 8
Name:          6
Type:          REG_SZ
Data:
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_12\3&33b859
b7&0&50

Value 9
Name:          7
Type:          REG_SZ
Data:
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_12\3&33b859
b7&0&58

Value 10
Name:          8
Type:          REG_SZ
Data:
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_12\3&33b859
b7&0&60

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PCIIde
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 1
Name:          Group
Type:          REG_SZ
Data:          System Bus Extender

Value 2

```

```

Name:          Start
Type:          REG_DWORD
Data:          0

Value 3
Name:          Tag
Type:          REG_DWORD
Data:          0x3

Value 4
Name:          Type
Type:          REG_DWORD
Data:          0x1

Value 5
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          system32\DRIVERS\pciide.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PCIIde\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          PCI\VEN_1022&DEV_7469&SUBSYS_32040E11&REV_03\3&20fea9
12&0&21

Value 1
Name:          Count
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Pcmcia
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 1
Name:          Group
Type:          REG_SZ
Data:          System Bus Extender

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

```

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Pcmcia\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: SoundsEnabled
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PDCOMP
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PDFRAME
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PDRELI
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PDRFRAME
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
perc2
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
perc2\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
perc2\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
perc2hib
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: Filter

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

Value 3
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PerfDisk
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PerfDisk\Performance
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:08 AM

Value 0
Name: Close
Type: REG_SZ

Data: CloseDiskObject

Value 1
Name: Collect
Type: REG_SZ
Data: CollectDiskObjectData

Value 2
Name: Collect Timeout
Type: REG_DWORD
Data: 0x7d0

Value 3
Name: Library
Type: REG_SZ
Data: perfdisk.dll

Value 4
Name: Object List
Type: REG_SZ
Data: 234 236

Value 5
Name: Open
Type: REG_SZ
Data: OpenDiskObject

Value 6
Name: Open Timeout
Type: REG_DWORD
Data: 0x1388

Value 7
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 3d bb 5c e0 6e ca 9c ec - 30 51 e8 12 fb
5f dc f2 =>\ànĒ.î0Qè.û_Üò

Value 8
Name: WbemAdapFileTime
Type: REG_BINARY
Data: 00 60 a9 0f c6 f2 c2 01 -
..°..ĒòĀ.

Value 9
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x6400

Value 10
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PerfNet
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PerfNet\Performance
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:08 AM

Value 0
Name: Close
Type: REG_SZ
Data: CloseNetSvcsObject

Value 1
Name: Collect
Type: REG_SZ
Data: CollectNetSvcsObjectData

Value 2
Name: Collect Timeout
Type: REG_DWORD
Data: 0x1388

Value 3
Name: Library
Type: REG_SZ
Data: perfnet.dll

Value 4
Name: Object List
Type: REG_DWORD
Data: 52 262 330 1300

Value 5
Name: Open
Type: REG_SZ
Data: OpenNetSvcsObject

Value 6
Name: Open Timeout
Type: REG_DWORD
Data: 0x1f40

Value 7
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 44 76 a1 18 1c f6 b3 8f - 28 45 fe 2e 90
58 3a 5b Dv;..ò°. (Ep..X: [

Value 8
Name: WbemAdapFileTime
Type: REG_BINARY
Data: 00 60 a9 0f c6 f2 c2 01 -
..°..ĒòĀ.

Value 9
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x4a00

Value 10
Name: WbemAdapStatus

Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PerfOS
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PerfOS\Performance
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:08 AM

Value 0
Name: Close
Type: REG_SZ
Data: CloseOSObject

Value 1
Name: Collect
Type: REG_SZ
Data: CollectOSObjectData

Value 2
Name: Collect Timeout
Type: REG_DWORD
Data: 0x1f40

Value 3
Name: Library
Type: REG_SZ
Data: perfos.dll

Value 4
Name: Object List
Type: REG_SZ
Data: 2 4 86 238 260 700

Value 5
Name: Open
Type: REG_SZ
Data: OpenOSObject

Value 6
Name: Open Timeout
Type: REG_DWORD
Data: 0x1388

Value 7
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 bb 5a 3d ca af 2d 27 91 - 09 e1 aa a5 3c
04 16 a3 >Z=Ē^-'. á*¥<..Ē

Value 8
Name: WbemAdapFileTime
Type: REG_BINARY

```

00 60 a9 0f c6 f2 c2 01 -
.\*.ËðÃ.

Value 9
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x6200

Value 10
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PerfProc
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PerfProc\Performance
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:08 AM
Value 0
Name: Close
Type: REG_SZ
Data: CloseSysProcessObject

Value 1
Name: Collect
Type: REG_SZ
Data: CollectSysProcessObjectData

Value 2
Name: Collect Timeout
Type: REG_DWORD
Data: 0x1f40

Value 3
Name: Library
Type: REG_SZ
Data: perfproc.dll

Value 4
Name: Object List
Type: REG_SZ
Data: 230 232 786 740 816 1408 1500 1548
1760

Value 5
Name: Open
Type: REG_SZ
Data: OpenSysProcessObject

Value 6
Name: Open Timeout
Type: REG_DWORD
Data: 0x2710

Value 7
Name: WbemAdapFileSignature

```

```

Type: REG_BINARY
Data: 00000000 dd fe 23 c9 84 dd c1 a8 - b0 0d bc 5b 91
36 d3 59 Ýp#É.ÝÁ"°.¼[.6ÓY

Value 8
Name: WbemAdapFileTime
Type: REG_BINARY
Data: 00 60 a9 0f c6 f2 c2 01 -
.\*.ËðÃ.

Value 9
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x8400

Value 10
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PlugPlay
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Description
Type: REG_SZ
Data: Enables a computer to recognize
and adapt to hardware changes with little or no user
input. Stopping or disabling this service will result
in system instability.

Value 1
Name: DisplayName
Type: REG_SZ
Data: Plug and Play

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: Group
Type: REG_SZ
Data: PlugPlay

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\services.exe

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6

```

```

Name: PlugPlayServiceType
Type: REG_DWORD
Data: 0x3

Value 7
Name: Start
Type: REG_DWORD
Data: 0x2

Value 8
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PlugPlay\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ý.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
01 02 00 .....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ý.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ý.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
PolicyAgent
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

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

```

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\lsass.exe

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: IPSEC Services

Value 5
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: RPCSS
 Tcpip
 IPsec

Value 6
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 7
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 8
 Name: Description
 Type: REG_SZ
 Data: Provides end-to-end security between clients and servers on TCP/IP networks. If this service is stopped, TCP/IP security between clients and servers on the network will be impaired. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 PolicyAgent\Oakley
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: NLBSFlags
 Type: REG_DWORD
 Data: 0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 PolicyAgent\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
00 02 00 ..
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....y.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 y.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 PolicyAgent\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_POLICYAGENT\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 PptpMiniport
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD

Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\raspppt.sys

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: WAN Miniport (PPTP)

Value 5
 Name: Description
 Type: REG_SZ
 Data: WAN Miniport (PPTP)

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 PptpMiniport\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 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 y.....
 00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
 01 02 00 ..`.....y...
 00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
 00 18 00
 00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
 00 00 00 y.....
 00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
 01 00 00
 00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
 01 02 00y...
 00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 PptpMiniport\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\MS_PPTPMINIPOINT\0000

Value 1
 Name: Count

```

Type:          REG_DWORD
Data:          0x1

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Processor
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x1

Value 1
Name:          Start
Type:          REG_DWORD
Data:          0x3

Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 3
Name:          Tag
Type:          REG_DWORD
Data:          0x3

Value 4
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          system32\DRIVERS\processr.sys

Value 5
Name:          DisplayName
Type:          REG_SZ
Data:          Processor Driver

Value 6
Name:          Group
Type:          REG_SZ
Data:          Extended Base

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Processor\Security
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          Security
Type:          REG_BINARY
Data:          00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....

```

```

00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..\.....Ÿ...
00000040 01 01 00 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Processor\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          ACPI\AuthenticAMD_-
_x86_Family_15_Model_5\_0

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:          ACPI\AuthenticAMD_-
_x86_Family_15_Model_5\_1

Value 4
Name:          2
Type:          REG_SZ
Data:          ACPI\AuthenticAMD_-
_x86_Family_15_Model_5\_2

Value 5
Name:          3
Type:          REG_SZ
Data:          ACPI\AuthenticAMD_-
_x86_Family_15_Model_5\_3

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ProtectedStorage

```

```

Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          DependOnService
Type:          REG_MULTI_SZ
Data:          RpcSs

Value 1
Name:          Description
Type:          REG_SZ
Data:          Protects storage of sensitive
information, such as private keys, and prevents
access by unauthorized services, processes, or users.
If this service is stopped, protected storage will be
unavailable. If this service is disabled, any
services that explicitly depend on it will fail to
start.

Value 2
Name:          DisplayName
Type:          REG_SZ
Data:          Protected Storage

Value 3
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 4
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\system32\lsass.exe

Value 5
Name:          ObjectName
Type:          REG_SZ
Data:          LocalSystem

Value 6
Name:          Start
Type:          REG_DWORD
Data:          0x4

Value 7
Name:          Type
Type:          REG_DWORD
Data:          0x120

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ProtectedStorage\Security
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
01 02 00 ..`.....
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....y.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 y.....
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\
ProtectedStorage\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_PROTECTEDSTORAGE\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Ptilink
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath

Type: REG_EXPAND_SZ
Data: system32\DRIVERS\ptilink.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: Direct Parallel Link Driver

Value 5
Name: Description
Type: REG_SZ
Data: Direct Parallel Link Driver

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Ptilink\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..`.....y...
00000040 01 01 00 00 00 00 00 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 y.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00y...
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\
Ptilink\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

Name: 0
Type: REG_SZ
Data: Root\MS_PTMINIPORT\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2

Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
q57w2k
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0xc

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\q57xp32.sys

Value 5
Name: DisplayName
Type: REG_SZ
Data: HP NC7782 Gigabit Server Adapter

Value 6
Name: Group
Type: REG_SZ
Data: NDIS

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
q57w2k\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..`.....y...
01 02 00 ..`.....y...

00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
q57w2k\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data:
PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_10\4&82820f
c&0&3038

Value 1
Name: Count
Type: REG_DWORD
Data: 0x2

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x2

Value 3
Name: 1
Type: REG_SZ
Data:

PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_10\4&82820f
c&0&3138

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql1080
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

Value 2
Name: Start

Type: REG_DWORD
Data: 0x4

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3d

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql1080\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql1080\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Ql10wnt
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x23

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Ql10wnt\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Ql10wnt\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql12160
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3f

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql12160\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ql12160\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql1240
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x31

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql1240\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql1240\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql1280
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3f

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql1280\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql1280\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2100
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x28

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2100\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2100\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2200
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x28

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2200\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2200\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0

Name: 5
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2300
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM
 Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: SCSI miniport

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x28

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 5
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\ql2300.sys

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2300\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 3/11/2004 - 2:14 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2300\Parameters\Device
 Class Name: <NO CLASS>
 Last Write Time: 4/23/2004 - 10:09 AM
 Value 0
 Name: DriverParameters
 Type: REG_SZ
 Data: UseSameNN=0

Value 1
 Name: MaximumSGList
 Type: REG_DWORD
 Data: 0x41

Value 2

Name: NumberOfRequests
 Type: REG_DWORD
 Data: 0x96

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2300\Parameters\PnpInterface
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: 5
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ql2300\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM
 Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_QL2300\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\qlvika
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\qlvika\Adapters
 Class Name: <NO CLASS>
 Last Write Time: 3/11/2004 - 2:16 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\qlvika\Adapters\210000E08B0BF2F0
 Class Name: Key
 Last Write Time: 3/11/2004 - 2:18 PM
 Value 0
 Name: IPAddress
 Type: REG_MULTI_SZ
 Data: 139.9.89.100

Value 1
 Name: VIDeviceNumber
 Type: REG_DWORD
 Data: 0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\qlvika\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM
 Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_QLVIKA\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasAcD
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM
 Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\rasacd.sys

Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: Remote Access Auto Connection Driver

Value 6
 Name: Group
 Type: REG_SZ
 Data: Streams Drivers

Value 7
Name: Description
Type: REG_SZ
Data: Remote Access Auto Connection
Driver

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RasAcd\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RasAcd\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 00Ÿ...
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\
RasAcd\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_RASACD\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2

Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RasAuto
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Remote Access Auto Connection
Manager

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RasMan
Tapisrv

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 8
Name: Description
Type: REG_SZ
Data: Detects unsuccessful attempts to connect to a remote network or computer and provides alternative methods for connection. If this service is stopped, users will need to manually connect. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RasAuto\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\rasauto.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RasAuto\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 00Ÿ...
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\
RasAuto\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_RASAUTO\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD

Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Rasl2tp
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\rasl2tp.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: WAN Miniport (L2TP)

Value 5
Name: Description
Type: REG_SZ
Data: WAN Miniport (L2TP)

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Rasl2tp\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 00Ÿ...
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\Rasl2tp\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\MS_L2TPMINIPORT\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasMan
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Remote Access Connection Manager

Value 5

Name: DependOnService
Type: REG_MULTI_SZ
Data: Tapisrv

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 8
Name: Description
Type: REG_SZ
Data: Manages dial-up and virtual private network (VPN) connections from this computer to the Internet or other remote networks. If this service is stopped, the operating system might not function properly. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasMan\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM

Value 0
Name: Medias
Type: REG_MULTI_SZ
Data: rastapi

Value 1
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\rasmans.dll

Value 2
Name: IpOutLowWatermark
Type: REG_DWORD
Data: 0x1

Value 3
Name: IpOutHighWatermark
Type: REG_DWORD
Data: 0x5

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasMan\PPP
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: MaxConfigure
Type: REG_DWORD
Data: 0xa

Value 1

Name: MaxFailure
 Type: REG_DWORD
 Data: 0xa

Value 2
 Name: MaxReject
 Type: REG_DWORD
 Data: 0x5

Value 3
 Name: MaxTerminate
 Type: REG_DWORD
 Data: 0x2

Value 4
 Name: Multilink
 Type: REG_DWORD
 Data: 0

Value 5
 Name: NegotiateTime
 Type: REG_DWORD
 Data: 0x96

Value 6
 Name: RestartTimer
 Type: REG_DWORD
 Data: 0x3

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RasMan\PPP\ControlProtocols
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RasMan\PPP\ControlProtocols\BuiltIn
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: Path
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rasppp.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RasMan\PPP\ControlProtocols\Chap
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: Path
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\raschap.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RasMan\PPP\EAP
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: Path
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rasppp.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RasMan\PPP\EAP\13
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: FriendlyName
 Type: REG_SZ
 Data: Smart Card or other certificate

Value 1
 Name: Path
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rastls.dll

Value 2
 Name: ConfigUIPath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rastls.dll

Value 3
 Name: IdentityPath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rastls.dll

Value 4
 Name: InteractiveUIPath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rastls.dll

Value 5
 Name: InvokeUsernameDialog
 Type: REG_DWORD
 Data: 0

Value 6
 Name: InvokePasswordDialog
 Type: REG_DWORD
 Data: 0

Value 7
 Name: MPPEEncryptionSupported
 Type: REG_DWORD
 Data: 0x1

Value 8
 Name: ConfigCLSID
 Type: REG_SZ
 Data: {58AB2366-D597-11d1-B90E-00C04FC9B263}

Value 9
 Name: StandaloneSupported
 Type: REG_DWORD
 Data: 0

Value 10

Name: NoRootRevocationCheck
 Type: REG_DWORD
 Data: 0x1

Value 11
 Name: RolesSupported
 Type: REG_DWORD
 Data: 0x3

Value 12
 Name: PerPolicyConfig
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RasMan\PPP\EAP\25
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: FriendlyName
 Type: REG_SZ
 Data: Protected EAP (PEAP)

Value 1
 Name: Path
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rastls.dll

Value 2
 Name: ConfigUIPath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rastls.dll

Value 3
 Name: IdentityPath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rastls.dll

Value 4
 Name: InteractiveUIPath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rastls.dll

Value 5
 Name: InvokeUsernameDialog
 Type: REG_DWORD
 Data: 0

Value 6
 Name: InvokePasswordDialog
 Type: REG_DWORD
 Data: 0

Value 7
 Name: MPPEEncryptionSupported
 Type: REG_DWORD
 Data: 0x1

Value 8
 Name: ConfigCLSID
 Type: REG_SZ

Data: {58AB2366-D597-11d1-B90E-00C04FC9B263}

Value 9
Name: StandaloneSupported
Type: REG_DWORD
Data: 0x1

Value 10
Name: NoRootRevocationCheck
Type: REG_DWORD
Data: 0x1

Value 11
Name: RolesSupported
Type: REG_DWORD
Data: 0x13

Value 12
Name: PerPolicyConfig
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasMan\PPP\EAP\26
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: FriendlyName
Type: REG_SZ
Data: Secured password (EAP-MSCHAP v2)

Value 1
Name: Path
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\raschap.dll

Value 2
Name: ConfigUiPath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\raschap.dll

Value 3
Name: IdentityPath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\raschap.dll

Value 4
Name: InteractiveUIPath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\raschap.dll

Value 5
Name: InvokeUsernameDialog
Type: REG_DWORD
Data: 0

Value 6
Name: InvokePasswordDialog
Type: REG_DWORD
Data: 0

Value 7
Name: MPPEEncryptionSupported
Type: REG_DWORD
Data: 0x1

Value 8
Name: ConfigCLSID
Type: REG_SZ
Data: {2af6bcaa-f526-4803-aeb8-5777ce386647}

Value 9
Name: StandaloneSupported
Type: REG_DWORD
Data: 0x1

Value 10
Name: RolesSupported
Type: REG_DWORD
Data: 0x17

Value 11
Name: PerPolicyConfig
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasMan\PPP\EAP\4
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: FriendlyName
Type: REG_SZ
Data: MD5-Challenge

Value 1
Name: Path
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\raschap.dll

Value 2
Name: InvokeUsernameDialog
Type: REG_DWORD
Data: 0x1

Value 3
Name: InvokePasswordDialog
Type: REG_DWORD
Data: 0x1

Value 4
Name: RolesSupported
Type: REG_DWORD
Data: 0xb

Value 5
Name: PerPolicyConfig
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasMan\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 7c 00 00 00 - 88 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 4c 00 03 00 00 00 - 00 00 14 00 9d
01 02 00 ..L.....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 fd 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 01
01 00 00
00000080 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\RasMan\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_RASMAN\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasPppoe
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\rasppoe.sys

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Remote Access PPPOE Driver

Value 5
 Name: Description
 Type: REG_SZ
 Data: Remote Access PPPOE Driver

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasPppoe\Linkage
 Class Name: <NO CLASS>
 Last Write Time: 5/3/2004 - 1:24 PM

Value 0
 Name: Bind
 Type: REG_MULTI_SZ
 Data: \Device\{CE7A3254-EC99-4338-B407-7465734E5082} \Device\{4349E852-A14E-4787-9E1A-431287E38C02}

Value 1
 Name: Route
 Type: REG_MULTI_SZ
 Data: "{CE7A3254-EC99-4338-B407-7465734E5082}" "{4349E852-A14E-4787-9E1A-431287E38C02}"

Value 2
 Name: Export
 Type: REG_MULTI_SZ
 Data: \Device\RasPppoe_{CE7A3254-EC99-4338-B407-7465734E5082} \Device\RasPppoe_{4349E852-A14E-4787-9E1A-431287E38C02}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasPppoe\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 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 00Ÿ...
 00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasPppoe\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\MS_PPPOEMINIPORT\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasPti
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2

Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\raspti.sys

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Direct Parallel

Value 5
 Name: Description
 Type: REG_SZ
 Data: Direct Parallel

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Raspti\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 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 00Ÿ...
 00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RasPti\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\MS_PTINIPORT\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Rdbss
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x2

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x4

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\rdbss.sys

Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: Rdbss

Value 6
 Name: Group
 Type: REG_SZ
 Data: Network

Value 7
 Name: Description
 Type: REG_SZ
 Data: Rdbss

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Rdbss\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 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 00Ÿ...
 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\Rdbss\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_RDBSS\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPcdd
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Group
 Type: REG_SZ
 Data: Video Save

Value 2
 Name: ImagePath
 Type: REG_SZ
 Data: System32\DRIVERS\RDPcdd.sys

Value 3
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPcdd\Device0
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:33 PM

Value 0
 Name: Device Description
 Type: REG_SZ
 Data: RDPDD Chained DD

Value 1
 Name: InstalledDisplayDrivers
 Type: REG_MULTI_SZ
 Data: RDPDD

Value 2
 Name: MirrorDriver
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: VgaCompatible
 Type: REG_DWORD
 Data: 0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPcdd\Video
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:33 PM

Value 0
 Name: VideoID
 Type: REG_SZ
 Data: {DEB039CC-B704-4F53-B43E-9DD4432FA2E9}

Value 1
 Name: Service
 Type: REG_SZ
 Data: RDPcdd

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPcdd\Enum
 Class Name: <NO CLASS>

Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_RDPCCD\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPPD
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:33 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPPD\Device0
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:33 PM

Value 0
 Name: InstalledDisplayDrivers
 Type: REG_MULTI_SZ
 Data: RDPPD

Value 1
 Name: VgaCompatible
 Type: REG_DWORD
 Data: 0

Value 2
 Name: Attach.RelativeX
 Type: REG_DWORD
 Data: 0

Value 3
 Name: Attach.RelativeY
 Type: REG_DWORD
 Data: 0

Value 4
 Name: Attach.ToDesktop
 Type: REG_DWORD
 Data: 0x1

Value 5
 Name: DefaultSettings.XResolution
 Type: REG_DWORD
 Data: 0x320

Value 6
 Name: DefaultSettings.YResolution
 Type: REG_DWORD
 Data: 0x258

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\rdpdr
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\rdpdr.sys

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Terminal Server Device Redirector
 Driver

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\rdpdr\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:33 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 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00

00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\rdpdr\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\RDPPDR\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPPN
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPPN\NetworkProvider
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:33 PM

Value 0
 Name: DeviceName
 Type: REG_SZ
 Data: \Device\RdpDr

Value 1
 Name: Name
 Type: REG_SZ
 Data: Microsoft Terminal Services

Value 2
 Name: ProviderPath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\drprov.dll

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPPN\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_RDPNP\0000

Value 1

```

Name:          Count
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPWD
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          ErrorControl
Type:          REG_DWORD
Data:          0

Value 1
Name:          Start
Type:          REG_DWORD
Data:          0x3

Value 2
Name:          Type
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDPWD\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          Root\LEGACY_RDPWD\0000

Value 1
Name:          Count
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDSessMgr
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:35 PM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x10

Value 1

```

```

Name:          Start
Type:          REG_DWORD
Data:          0x3

Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 3
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          C:\WINDOWS\system32\sessmgr.exe

Value 4
Name:          DisplayName
Type:          REG_SZ
Data:          Remote Desktop Help Session
Manager

Value 5
Name:          DependOnService
Type:          REG_MULTI_SZ
Data:          RPCSS

Value 6
Name:          DependOnGroup
Type:          REG_MULTI_SZ
Data:

Value 7
Name:          ObjectName
Type:          REG_SZ
Data:          LocalSystem

Value 8
Name:          Description
Type:          REG_SZ
Data:          Manages and controls Remote
Assistance. If this service is stopped, Remote
Assistance will be unavailable. Before stopping this
service, see the Dependencies tab of the Properties
dialog box.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RDSessMgr\Security
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:35 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\redbook
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x1

Value 1
Name:          Start
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 3
Name:          Tag
Type:          REG_DWORD
Data:          0x2

Value 4
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          system32\DRIVERS\redbook.sys

Value 5
Name:          DisplayName
Type:          REG_SZ
Data:          Digital CD Audio Playback Filter
Driver

Value 6
Name:          Group
Type:          REG_SZ
Data:          Pnp Filter

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\redbook\Security
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM

```

```

Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 .\`.....Ÿ...
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
redbook\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: IDE\CdRomTEAC_CD-
224E_____9.9A_\5&2dc47f1c&0
&0.0.0

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data:

Value 1
Name: Type

```

```

Type: REG_DWORD
Data: 0x20

Value 2
Name: Start
Type: REG_DWORD
Data: 0x3

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 5
Name: DisplayName
Type: REG_SZ
Data: Routing and Remote Access

Value 6
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSS

Value 7
Name: DependOnGroup
Type: REG_MULTI_SZ
Data: NetBIOSGroup

Value 8
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 9
Name: Description
Type: REG_SZ
Data: Enables multi-protocol LAN-to-LAN,
LAN-to-WAN, virtual private network (VPN), and
network address translation (NAT) routing services
for clients and servers on this network. If this
service is stopped, these services will be
unavailable. If this service is disabled, any
services that explicitly depend on it will fail to
start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Accounting
Class Name: <NO CLASS>
Last Write Time: 9/15/2004 - 3:20 PM
Value 0
Name: AccountSessionIdStart
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Accounting\Providers
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: ActiveProvider
Type: REG_SZ
Data: {1AA7F846-C7F5-11D0-A376-
00C04FC9DA04}

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Accounting\Providers\{1AA7F840-C7F5-
11D0-A376-00C04FC9DA04}
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: ConfigClsid
Type: REG_SZ
Data: {1AA7F840-C7F5-11D0-A376-
00C04FC9DA04}

Value 1
Name: DisplayName
Type: REG_SZ
Data: RADIUS Accounting

Value 2
Name: Path
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\rasrad.dll

Value 3
Name: ProviderTypeGUID
Type: REG_SZ
Data: {76560D80-2BFD-11d2-9539-
3078302C2030}

Value 4
Name: VendorName
Type: REG_SZ
Data: Microsoft

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Accounting\Providers\{1AA7F846-C7F5-
11D0-A376-00C04FC9DA04}
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: ConfigClsid
Type: REG_SZ
Data:

Value 1
Name: DisplayName
Type: REG_SZ
Data: Windows Accounting

Value 2

```

Name: Path
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\mprddm.dll

Value 3
Name: ProviderTypeGUID
Type: REG_SZ
Data: {76560D81-2BFD-11d2-9539-3078302C2030}

Value 4
Name: VendorName
Type: REG_SZ
Data: Microsoft

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RemoteAccess\Authentication
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RemoteAccess\Authentication\Providers
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: ActiveProvider
Type: REG_SZ
Data: {1AA7F841-C7F5-11D0-A376-00C04FC9DA04}

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RemoteAccess\Authentication\Providers\{1AA7F83F-C7F5-11D0-A376-00C04FC9DA04}
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: ConfigClsid
Type: REG_SZ
Data: {1AA7F83F-C7F5-11D0-A376-00C04FC9DA04}

Value 1
Name: DisplayName
Type: REG_SZ
Data: RADIUS Authentication

Value 2
Name: Path
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\rasrad.dll

Value 3
Name: VendorName
Type: REG_SZ
Data: Microsoft

Value 4
Name: ProviderTypeGUID

Type: REG_SZ
Data: {76560D00-2BFD-11d2-9539-3078302C2030}

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RemoteAccess\Authentication\Providers\{1AA7F841-C7F5-11D0-A376-00C04FC9DA04}
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: ConfigClsid
Type: REG_SZ
Data:

Value 1
Name: DisplayName
Type: REG_SZ
Data: Windows Authentication

Value 2
Name: Path
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\mprddm.dll

Value 3
Name: VendorName
Type: REG_SZ
Data: Microsoft

Value 4
Name: ProviderTypeGUID
Type: REG_SZ
Data: {76560D01-2BFD-11d2-9539-3078302C2030}

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RemoteAccess\DemandDialManager
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: DllPath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\mprddm.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RemoteAccess\Interfaces
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM

Value 0
Name: Stamp
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RemoteAccess\Interfaces\0

Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: InterfaceName
Type: REG_SZ
Data: Loopback

Value 1
Name: Type
Type: REG_DWORD
Data: 0x5

Value 2
Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 3
Name: Stamp
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RemoteAccess\Interfaces\0\Ip
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: ProtocolId
Type: REG_DWORD
Data: 0x21

Value 1
Name: InterfaceInfo
Type: REG_BINARY
Data:

00000000 01 00 00 00 68 00 00 00 - 03 00 00 00 05
00 ff ff ...h.....ÿÿ
00000010 38 00 00 00 00 00 00 - 40 00 00 00 04
00 ff ff 8.....@.....ÿÿ
00000020 04 00 00 00 01 00 00 00 - 40 00 00 00 07
00 ff ff@.....ÿÿ
00000030 10 00 00 00 01 00 00 00 - 48 00 00 00 00
00 00 00H.....
00000040 01 00 00 00 00 00 00 00 - 58 02 c2 01 08
07 00 00X.Ã.....
00000050 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00 00 00 00 00 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RemoteAccess\Interfaces\1
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: InterfaceName
Type: REG_SZ
Data: Internal

```

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

Value 2
  Name: Enabled
  Type: REG_DWORD
  Data: 0x1

Value 3
  Name: Stamp
  Type: REG_DWORD
  Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Interfaces\1\Ip
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
  Name: ProtocolId
  Type: REG_DWORD
  Data: 0x21

Value 1
  Name: InterfaceInfo
  Type: REG_BINARY
  Data:
00000000 01 00 00 00 68 00 00 00 - 03 00 00 00 05
00 ff ff ...h.....ÿÿ
00000010 38 00 00 00 00 00 00 - 40 00 00 00 04
00 ff ff 8.....@....ÿÿ
00000020 04 00 00 00 01 00 00 - 40 00 00 00 07
00 ff ff .....@....ÿÿ
00000030 10 00 00 00 01 00 00 - 48 00 00 00 00
00 00 00 .....H.....
00000040 01 00 00 00 00 00 00 - 58 02 c2 01 08
07 00 00 .....X.Ã.....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Interfaces\3
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM
Value 0
  Name: InterfaceName
  Type: REG_SZ
  Data: {4349E852-A14E-4787-9E1A-
431287E38C02}

Value 1
  Name: Type
  Type: REG_DWORD
  Data: 0x3

Value 2

```

```

Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 3
  Name: Stamp
  Type: REG_DWORD
  Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Interfaces\3\Ip
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM
Value 0
  Name: ProtocolId
  Type: REG_DWORD
  Data: 0x21

Value 1
  Name: InterfaceInfo
  Type: REG_BINARY
  Data:
00000000 01 00 00 00 68 00 00 00 - 03 00 00 00 05
00 ff ff ...h.....ÿÿ
00000010 38 00 00 00 00 00 00 - 40 00 00 00 04
00 ff ff 8.....@....ÿÿ
00000020 04 00 00 00 01 00 00 - 40 00 00 00 07
00 ff ff .....@....ÿÿ
00000030 10 00 00 00 01 00 00 - 48 00 00 00 00
00 00 00 .....H.....
00000040 01 00 00 00 00 00 00 - 58 02 c2 01 08
07 00 00 .....X.Ã.....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Interfaces\4
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
  Name: InterfaceName
  Type: REG_SZ
  Data: {CE7A3254-EC99-4338-B407-
7465734E5082}

Value 1
  Name: Type
  Type: REG_DWORD
  Data: 0x3

Value 2
  Name: Enabled
  Type: REG_DWORD
  Data: 0x1

Value 3
  Name: Stamp

```

```

Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Interfaces\4\Ip
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
  Name: ProtocolId
  Type: REG_DWORD
  Data: 0x21

Value 1
  Name: InterfaceInfo
  Type: REG_BINARY
  Data:
00000000 01 00 00 00 68 00 00 00 - 03 00 00 00 05
00 ff ff ...h.....ÿÿ
00000010 38 00 00 00 00 00 00 - 40 00 00 00 04
00 ff ff 8.....@....ÿÿ
00000020 04 00 00 00 01 00 00 - 40 00 00 00 07
00 ff ff .....@....ÿÿ
00000030 10 00 00 00 01 00 00 - 48 00 00 00 00
00 00 00 .....H.....
00000040 01 00 00 00 00 00 00 - 58 02 c2 01 08
07 00 00 .....X.Ã.....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Parameters
Class Name: <NO CLASS>
Last Write Time: 9/15/2004 - 1:31 PM
Value 0
  Name: RouterType
  Type: REG_DWORD
  Data: 0x1

Value 1
  Name: ServerFlags
  Type: REG_DWORD
  Data: 0x2702

Value 2
  Name: ServiceDll
  Type: REG_EXPAND_SZ
  Data: %SystemRoot%\System32\mprdim.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Parameters\AccountLockout
Class Name: <NO CLASS>
Last Write Time: 9/15/2004 - 1:31 PM
Value 0
  Name: MaxDenials
  Type: REG_DWORD

```

Data: 0

Value 1
 Name: ResetTime (mins)
 Type: REG_DWORD
 Data: 0xb40

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RemoteAccess\Parameters\AppleTalk
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: EnableIn
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RemoteAccess\Parameters\Ip
 Class Name: <NO CLASS>
 Last Write Time: 9/15/2004 - 1:31 PM

Value 0
 Name: AllowClientIpAddresses
 Type: REG_DWORD
 Data: 0

Value 1
 Name: AllowNetworkAccess
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: EnableIn
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: IpAddress
 Type: REG_SZ
 Data: 0.0.0.0

Value 4
 Name: IpMask
 Type: REG_SZ
 Data: 0.0.0.0

Value 5
 Name: UseDhcpAddressing
 Type: REG_DWORD
 Data: 0x1

Value 6
 Name: EnableRoute
 Type: REG_DWORD
 Data: 0x1

Value 7
 Name: EnableNetbtBcastFwd
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RemoteAccess\Parameters\Ipx
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: EnableIn
 Type: REG_DWORD
 Data: 0

Value 1
 Name: AcceptRemoteNodeNumber
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: AllowNetworkAccess
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: AutoWanNetAllocation
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: FirstWanNet
 Type: REG_DWORD
 Data: 0

Value 5
 Name: GlobalWanNet
 Type: REG_DWORD
 Data: 0x1

Value 6
 Name: LastWanNet
 Type: REG_DWORD
 Data: 0

Value 7
 Name: EnableRoute
 Type: REG_DWORD
 Data: 0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RemoteAccess\Parameters\Nbf
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: EnableIn
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: AllowNetworkAccess
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 RemoteAccess\Performance
 Class Name: <NO CLASS>
 Last Write Time: 4/4/2004 - 5:08 AM

Value 0
 Name: Open
 Type: REG_SZ
 Data: OpenRasPerformanceData

Value 1
 Name: Close
 Type: REG_SZ
 Data: CloseRasPerformanceData

Value 2
 Name: Collect
 Type: REG_SZ
 Data: CollectRasPerformanceData

Value 3
 Name: Library
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\rasctrs.dll

Value 4
 Name: PerfIniFile
 Type: REG_SZ
 Data: rasctrs.ini

Value 5
 Name: Last Counter
 Type: REG_DWORD
 Data: 0x7ba

Value 6
 Name: Last Help
 Type: REG_DWORD
 Data: 0x7bb

Value 7
 Name: First Counter
 Type: REG_DWORD
 Data: 0x794

Value 8
 Name: First Help
 Type: REG_DWORD
 Data: 0x795

Value 9
 Name: WbemAdapFileSignature
 Type: REG_BINARY
 Data: 00000000 7b bb df 81 9b b0 80 3d - 84 e5 95 c5 bf
 bc 44 a8 {>B..°.=.â.Â¿%D"

Value 10
 Name: WbemAdapFileTime
 Type: REG_BINARY
 Data:

00 60 a9 0f c6 f2 c2 01 -
..@.ã.

Value 11
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x3400

Value 12
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: LicenseType
Type: REG_DWORD
Data: 0x2

Value 1
Name: ProductDir
Type: REG_SZ
Data: C:\WINDOWS\system32\IAS

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\01
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.ProxyPolicyEnforcer

Value 1
Name: Requests
Type: REG_SZ
Data: 0 1 2

Value 2
Name: Responses
Type: REG_SZ
Data: 0 1 2 3 4

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\02
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Name: <NO NAME>
Type: REG_SZ
Data: IAS.NTSamNames

Value 1
Name: Providers
Type: REG_SZ
Data: 1

Value 2
Name: Requests
Type: REG_SZ
Data: 0

Value 3
Name: Responses
Type: REG_SZ
Data: 0 1 3

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\03
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.BaseCampHost

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\04
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.RadiusProxy

Value 1
Name: Providers
Type: REG_SZ
Data: 2

Value 2
Name: Responses
Type: REG_SZ
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\05
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.ExternalAuthNames

Value 1

Name: Providers
Type: REG_SZ
Data: 2

Value 2
Name: Requests
Type: REG_SZ
Data: 0

Value 3
Name: Responses
Type: REG_SZ
Data: 1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\06
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.NTSamAuthentication

Value 1
Name: Providers
Type: REG_SZ
Data: 1

Value 2
Name: Requests
Type: REG_SZ
Data: 0

Value 3
Name: Responses
Type: REG_SZ
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\07
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.AccountValidation

Value 1
Name: Providers
Type: REG_SZ
Data: 1 3

Value 2
Name: Requests
Type: REG_SZ
Data: 0

Value 3
Name: Responses

Type: REG_SZ
Data: 0 1

Value 4
Name: Reasons
Type: REG_SZ
Data: 33

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\08
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.PolicyEnforcer

Value 1
Name: Providers
Type: REG_SZ
Data: 1 3

Value 2
Name: Requests
Type: REG_SZ
Data: 0

Value 3
Name: Responses
Type: REG_SZ
Data: 0 1 3

Value 4
Name: Reasons
Type: REG_SZ
Data: 33

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\09
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.NTSamPerUser

Value 1
Name: Providers
Type: REG_SZ
Data: 1 3

Value 2
Name: Requests
Type: REG_SZ
Data: 0

Value 3
Name: Responses
Type: REG_SZ

Data: 0 1 3

Value 4
Name: Reasons
Type: REG_SZ
Data: 33

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\10
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.URHandler

Value 1
Name: Providers
Type: REG_SZ
Data: 0 1 3

Value 2
Name: Requests
Type: REG_SZ
Data: 0

Value 3
Name: Responses
Type: REG_SZ
Data: 0 1

Value 4
Name: Reasons
Type: REG_SZ
Data: 33

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\11
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.EAP

Value 1
Name: Providers
Type: REG_SZ
Data: 1

Value 2
Name: Requests
Type: REG_SZ
Data: 0 2

Value 3
Name: Responses
Type: REG_SZ
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\12
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.PostEapRestrictions

Value 1
Name: Providers
Type: REG_SZ
Data: 0 1 3

Value 2
Name: Requests
Type: REG_SZ
Data: 0 2

Value 3
Name: Responses
Type: REG_SZ
Data: 0 1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\13
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.ChangePassword

Value 1
Name: Providers
Type: REG_SZ
Data: 1

Value 2
Name: Requests
Type: REG_SZ
Data: 0

Value 3
Name: Responses
Type: REG_SZ
Data: 0 1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\14
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.AuthorizationHost

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\15
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.Accounting

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\16
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.DatabaseAccounting

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Policy\Pipeline\17
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: IAS.MSChapErrorReporter

Value 1
Name: Providers
Type: REG_SZ
Data: 0 1 3

Value 2
Name: Requests
Type: REG_SZ
Data: 0

Value 3
Name: Responses
Type: REG_SZ
Data: 2

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\RouterManagers
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Stamp
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\RouterManagers\Ip
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: ProtocolId
Type: REG_DWORD
Data: 0x21

Value 1
Name: GlobalInfo
Type: REG_BINARY
Data:
00000000 01 00 00 00 80 00 00 00 - 02 00 00 00 03
00 ff ffÿÿ
00000010 08 00 00 00 01 00 00 00 - 30 00 00 00 06
00 ff ff0.....ÿÿ
00000020 3c 00 00 00 01 00 00 00 - 38 00 00 00 00
00 00 00 <.....8.....
00000030 00 00 00 00 01 00 00 00 - 07 00 00 00 02
00 00 00
00000040 01 00 00 00 03 00 00 00 - 0a 00 00 00 16
27 00 00'
00000050 03 00 00 00 17 27 00 00 - 05 00 00 00 12
27 00 00'
00000060 07 00 00 00 0d 00 00 00 - 6e 00 00 00 08
00 00 00n.....
00000070 78 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 x.....

Value 2
Name: DLLPath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\iptrmgr.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\RoutingTableManager
Class Name: <NO CLASS>
Last Write Time: 9/15/2004 - 1:31 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\RoutingTableManager\Instance 00000
Class Name: <NO CLASS>
Last Write Time: 9/15/2004 - 1:31 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\RoutingTableManager\Instance
00000\AddressFamily 00002
Class Name: <NO CLASS>
Last Write Time: 9/15/2004 - 1:31 PM

Value 0
Name: AddressSize
Type: REG_DWORD
Data: 0x4

Value 1
Name: ViewsSupported

Type: REG_DWORD
Data: 0x3

Value 2
Name: MaxChangeNotifyRegistrations
Type: REG_DWORD
Data: 0x10

Value 3
Name: MaxOpaqueInfoPointers
Type: REG_DWORD
Data: 0x5

Value 4
Name: MaxNextHopsInRoute
Type: REG_DWORD
Data: 0x3

Value 5
Name: MaxHandlesReturnedInEnum
Type: REG_DWORD
Data: 0x19

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 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 00ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteAccess\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

```

Name: 0
Type: REG_SZ
Data: Root\LEGACY_REMOTEACCESS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteRegistry
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Description
Type: REG_SZ
Data: Enables remote users to modify
registry settings on this computer. If this service
is stopped, the registry can be modified only by
users on this computer. If this service is disabled,
any services that explicitly depend on it will fail
to start.

Value 1
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS

Value 2
Name: DisplayName
Type: REG_SZ
Data: Remote Registry

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k regsvc

Value 5
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\LocalService

Value 6
Name: Group
Type: REG_SZ
Data:

Value 7
Name: Start

```

```

Type: REG_DWORD
Data: 0x4

Value 8
Name: Type
Type: REG_DWORD
Data: 0x20

Value 9
Name: FailureActions
Type: REG_BINARY
Data:
00000000 00 00 00 00 00 00 00 00 - 00 00 00 00 01
00 00 00 .....
e0 ad 08 00 01 00 00 00 - e8 03 00 00
à-.....è...

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteRegistry\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\regsvc.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteRegistry\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 ý.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
01 02 00 .....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....ý.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 ý.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RemoteRegistry\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_REMOTEACCESS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RpcLocator
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x10

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\locator.exe

Value 4
Name: DisplayName
Type: REG_SZ
Data: Remote Procedure Call (RPC)
Locator

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: LanmanWorkstation

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7

```

Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\NetworkService

Value 8
Name: Description
Type: REG_SZ
Data: Enables remote procedure call (RPC) clients using the RpcNs* family of APIs to locate RPC servers. If this service is stopped or disabled, RPC clients using RpcNs* APIs may be unable to locate servers or fail to start. RpcNs* APIs are not used internally in Windows.

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RpcLocator\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: ExpirationAge
Type: REG_DWORD
Data: 0xe10

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RpcLocator\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 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\RpcLocator\Enum
Class Name: <NO CLASS>

Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_RPCLOCATOR\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RpcSS
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Description
Type: REG_SZ
Data: Serves as the endpoint mapper and COM Service Control Manager. If this service is stopped or disabled, programs using COM or Remote Procedure Call (RPC) services will not function properly.

Value 1
Name: DisplayName
Type: REG_SZ
Data: Remote Procedure Call (RPC)

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: Group
Type: REG_SZ
Data: COM Infrastructure

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost -k rpcss

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Start
Type: REG_DWORD
Data: 0x2

Value 7

Name: Type
Type: REG_DWORD
Data: 0x20

Value 8
Name: FailureActions
Type: REG_BINARY
Data: 00000000 00 00 00 00 00 00 00 00 - 00 00 00 00 01
00 00 00
00 00 00 00 02 00 00 00 - 60 ea 00 00
.....ê..

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RpcSS\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\rpcss.dll

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\RpcSS\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Security
Type: REG_BINARY
Data: 00000000 01 00 14 80 a8 00 00 00 - b4 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 78 00 05 00 00 00 - 00 00 14 00 8d
00 02 00 ..x.....
00000040 01 01 00 00 00 00 00 05 - 0b 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 18 00 - 8d 00 02 00 01
02 00 00
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 00
00 14 00#.....
00000080 9d 00 00 00 01 01 00 00 - 00 00 00 05 04
00 00 00
00000090 00 00 18 00 9d 00 00 00 - 01 02 00 00 00
00 00 05
000000a0 20 00 00 00 21 02 00 00 - 01 01 00 00 00
00 00 05 ..!.....
000000b0 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RpcSs\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_RPCSS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RSOPProv
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Description
Type: REG_SZ
Data: Enables a user to connect to a remote computer, access the Windows Management Instrumentation database for that computer, and either verify the current Group Policy settings made for the computer or check settings before they are applied. If this service is stopped, remote verification will be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 1
Name: DisplayName
Type: REG_SZ
Data: Resultant Set of Policy Provider

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\RSOPProv.exe

Value 4
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS

Value 6
Name: Start
Type: REG_DWORD
Data: 0x3

Value 7
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
RSOPProv\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_RSOPPROV\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sacdrv
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sacsvr
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Description
Type: REG_SZ
Data: Allows administrators to remotely access a command prompt using Emergency Management Services.

Value 1
Name: DisplayName
Type: REG_SZ
Data: Special Administration Console
Helper

Value 2

Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k netsvcs

Value 4
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 5
Name: Start
Type: REG_DWORD
Data: 0x3

Value 6
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sacsvr\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\sacsvr.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sacsvr\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_SACSVR\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SamSs
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Description
 Type: REG_SZ
 Data: The startup of this service signals other services that the Security Accounts Manager (SAM) is ready to accept requests. Disabling this service will prevent other services in the system from being notified when the SAM is ready, which may in turn cause those services to fail to start correctly. This service should not be disabled.

Value 1
 Name: DisplayName
 Type: REG_SZ
 Data: Security Accounts Manager

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\lsass.exe

Value 4
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 5
 Name: Start
 Type: REG_DWORD
 Data: 0x2

Value 6
 Name: Type
 Type: REG_DWORD
 Data: 0x20

Value 7
 Name: Group
 Type: REG_SZ
 Data: MS_WindowsLocalValidation

Value 8
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: RPCSS

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SamSs\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: Security
 Type: REG_BINARY
 Data:

```

00000000 01 00 14 80 a8 00 00 00 - b4 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 78 00 05 00 00 00 - 00 00 14 00 8d
00 02 00 ..x.....
00000040 01 01 00 00 00 00 05 - 0b 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 18 00 - 8d 00 02 00 01
02 00 00 .....
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 00
00 14 00 ....#.
00000080 9d 00 00 00 01 01 00 00 - 00 00 00 05 04
00 00 00 .....
00000090 00 00 18 00 9d 00 00 00 - 01 02 00 00 00
00 00 05 .....
000000a0 20 00 00 00 21 02 00 00 - 01 01 00 00 00
00 00 05 ..!.....
000000b0 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....

```

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SamSs\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_SAMSS\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SCardSvr
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x20

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\SCardSvr.exe

Value 4
 Name: Description
 Type: REG_SZ
 Data: Manages access to smart cards read by this computer. If this service is stopped, this computer will be unable to read smart cards. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: Smart Card

Value 6
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: PlugPlay

Value 7
 Name: ObjectName
 Type: REG_SZ
 Data: NT AUTHORITY\LocalService

Value 8
 Name: Group
 Type: REG_SZ
 Data: SmartCardGroup

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SCardSvr\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: Security
 Type: REG_BINARY
 Data:

```

00000000 01 00 14 80 a4 00 00 00 - b0 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 74 00 05 00 00 00 - 00 00 14 00 fd
01 02 00 ..t.....Ÿ...
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 14 00 .....
00000050 fd 01 02 00 01 01 00 00 - 00 00 00 05 13
00 00 00 Ÿ.....
00000060 00 00 18 00 ff 01 0f 00 - 01 02 00 00 00
00 00 05 ....Ÿ.....

```

```

00000070 20 00 00 00 20 02 00 00 - 00 00 18 00 ff
01 0f 00 ... ..ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 25
02 00 00 .....%...
00000090 00 00 14 00 9d 01 02 00 - 01 01 00 00 00
00 00 02 .....
000000a0 00 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....
01 01 00 00 00 00 05 - 12 00 00 00
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SCardSvr\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_SCARDSVR\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Schedule
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: AtTaskMaxHours
Type: REG_DWORD
Data: 0x48

```

```

Value 1
Name: Description
Type: REG_SZ
Data: Enables a user to configure and
schedule automated tasks on this computer. If this
service is stopped, these tasks will not be run at
their scheduled times. If this service is disabled,
any services that explicitly depend on it will fail
to start.

```

```

Value 2
Name: Type
Type: REG_DWORD
Data: 0x20

```

```

Value 3
Name: Start
Type: REG_DWORD
Data: 0x4

```

```

Value 4
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 5
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k netsvcs

```

```

Value 6
Name: DisplayName
Type: REG_SZ
Data: Task Scheduler

```

```

Value 7
Name: Group
Type: REG_SZ
Data: SchedulerGroup

```

```

Value 8
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs

```

```

Value 9
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

```

```

Value 10
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

```

```

Value 11
Name: FailureActions
Type: REG_BINARY
Data:
00000000 80 51 01 00 00 00 00 00 - 00 00 00 00 03
00 00 00 .Q.....
00000010 70 00 69 00 01 00 00 00 - 70 17 00 00 01
00 00 00 p.i....p.....
60 ea 00 00 00 00 00 00 - 00 00 00 00
~ê.....

```

```

Value 12
Name: NextAtJobId
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Schedule\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\schedsvc.dll

```

```

Value 1
Name: ServiceMain
Type: REG_SZ
Data: SchedServiceMain

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Schedule\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00 .....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 ÿ.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Schedule\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_SCHEDULE\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ScsiPort

```


Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\drivers\scsiport.sys

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Secdrv
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\secdrv.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: Secdrv

Value 5
Name: Description
Type: REG_SZ
Data: SafeDisc driver

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Secdrv\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Security
Type: REG_BINARY
Data: 00000000 01 00 14 80 78 00 00 00 - 84 00 00 00 14
00 00 00x.....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 y.....
00000030 02 00 48 00 03 00 00 00 - 00 00 14 00 9d
01 02 00 ..H.....

00000040 01 01 00 00 00 00 05 - 04 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 y.....
00000060 20 02 00 00 00 00 14 00 - fd 01 02 00 01
01 00 00y.....
00000070 00 00 00 05 12 00 00 00 - 01 01 00 00 00
00 00 05
00000080 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00
00000090 00 00 00 00 00 00 00 00 - 00 00 00 00 00

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\seclogon
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Description
Type: REG_SZ
Data: Enables starting processes under alternate credentials. If this service is stopped, this type of logon access will be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 1
Name: DisplayName
Type: REG_SZ
Data: Secondary Logon

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k netsvcs

Value 4
Name: Objectname
Type: REG_SZ
Data: LocalSystem

Value 5
Name: Start
Type: REG_DWORD
Data: 0x4

Value 6
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\seclogon\Parameters
Class Name: <NO CLASS>

Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\seclogon.dll

Value 1
Name: ServiceMain
Type: REG_SZ
Data: SvcEntry_Seclogon

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\seclogon\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 8d
01 02 00
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....y.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 y.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\seclogon\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_SECLOGON\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD

```

Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SENS
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: EventSystem

Value 1
Name: Description
Type: REG_SZ
Data: Monitors system events and
notifies subscribers to COM+ Event System of these
events. If this service is stopped, COM+ Event System
subscribers will not receive system event
notifications. If this service is disabled, any
services that explicitly depend on it will fail to
start.

Value 2
Name: DisplayName
Type: REG_SZ
Data: System Event Notification

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Group
Type: REG_SZ
Data: Network

Value 7
Name: Start
Type: REG_DWORD
Data: 0x3

Value 8
Name: Type
Type: REG_DWORD
Data: 0x20

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SENS\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\sens.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SENS\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00 .....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SENS\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_SENS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
serenum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: DisplayName
Type: REG_SZ
Data: Serenum Filter Driver

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\serenum.sys

Value 5
Name: Group
Type: REG_SZ
Data: PNP Filter

Value 6
Name: Tag
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
serenum\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: ACPI\PNP0501\0

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Serial
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Group
 Type: REG_SZ
 Data: Extended base

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 5
 Name: ForceFifoEnable
 Type: REG_DWORD
 Data: 0x1

Value 6
 Name: RxFIFO
 Type: REG_DWORD
 Data: 0x8

Value 7
 Name: TxFIFO
 Type: REG_DWORD
 Data: 0xe

Value 8
 Name: PermitShare
 Type: REG_DWORD
 Data: 0

Value 9
 Name: LogFifo
 Type: REG_DWORD
 Data: 0

Value 10
 Name: DisplayName
 Type: REG_SZ
 Data: Serial port driver

Value 11
 Name: ImagePath

Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\serial.sys

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Serial\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Serial\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: ACPI\PNP0501\0

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Sfloppy
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data: SCSI miniport

Value 1
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 2
 Name: Group
 Type: REG_SZ
 Data: Primary disk

Value 3
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: Tag
 Type: REG_DWORD
 Data: 0x4

Value 5
 Name: Type

Type: REG_DWORD
 Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Sfloppy\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Count
 Type: REG_DWORD
 Data: 0

Value 1
 Name: NextInstance
 Type: REG_DWORD
 Data: 0

Value 2
 Name: INITSTARTFAILED
 Type: REG_DWORD
 Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SharedAccess
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x20

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

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\svchost.exe
 -k netsvcs

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Internet Connection Firewall (ICF) / Internet Connection Sharing (ICS)

Value 5
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: Netman
 NLA
 RasMan

```

ALG
Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 8
Name: Description
Type: REG_SZ
Data: Provides network address translation, addressing, name resolution and/or intrusion prevention services for a home or small office network. If this service is stopped, networking services such as Internet sharing, name resolution, addressing and/or intrusion prevention will be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SharedAccess\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ipnathlp.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SharedAccess\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 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 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...

```

```

00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SharedAccess\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:
Type: REG_SZ
Data: Root\LEGACY_SHAREDACCESS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ShellHWDetection
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:
Type: REG_DWORD
Data: 0x20

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

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Shell Hardware Detection

Value 5
Name: Group
Type: REG_SZ

```

```

Data: ShellSvcGroup

Value 6
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs

Value 7
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 8
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 9
Name: Description
Type: REG_SZ
Data: Provides notifications for AutoPlay hardware events.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ShellHWDetection\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\shsvcs.dll

Value 1
Name: ServiceMain
Type: REG_SZ
Data: HardwareDetectionServiceMain

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ShellHWDetection\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 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 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 00ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
ShellHWDetection\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_SHELLHWDTECTION\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Simbad
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: Filter

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Sparrow
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x7

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Sparrow\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: LegacyAdapterDetection
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Sparrow\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 1
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Spooler
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS

Value 1
Name: Description
Type: REG_SZ
Data: Manages all local and network
print queues and controls all printing jobs. If this
service is stopped, printing on the local machine
will be unavailable. If this service is disabled, any
services that explicitly depend on it will fail to
start.

Value 2
Name: DisplayName
Type: REG_SZ
Data: Print Spooler

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: FailureActions
Type: REG_BINARY
Data:
00000000 60 54 00 00 00 00 00 - 00 00 00 00 03
00 00 00 `T.....
00000010 e8 47 0c 00 01 00 00 - 60 ea 00 00 01
00 00 00 e8.....`è.....
60 ea 00 00 00 00 00 00 - 00 00 00 00
`è.....

Value 5
Name: Group
Type: REG_SZ
Data: SpoolerGroup

Value 6
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\spoolsv.exe

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 8
Name: Start
Type: REG_DWORD
Data: 0x4

Value 9
Name: Type
Type: REG_DWORD
Data: 0x110

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Spooler\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Spooler\Performance
Class Name: <NO CLASS>
Last Write Time: 7/14/2004 - 2:37 PM
Value 0
Name: Close
Type: REG_SZ
Data: PerfClose

Value 1
Name: Collect
Type: REG_SZ
Data: PerfCollect

Value 2
Name: Collect Timeout
Type: REG_DWORD
Data: 0x7d0

Value 3
Name: Library
Type: REG_SZ
Data: winspool.drv

Value 4
Name: Object List
Type: REG_SZ
Data: 1450

Value 5
Name: Open
Type: REG_SZ
Data: PerfOpen

Value 6
Name: Open Timeout
Type: REG_DWORD
Data: 0xfa0

Value 7
Name: WbemAdapFileSignature
Type: REG_BINARY
Data: 00000000 dd 91 b6 c5 74 71 fb 9a - 91 62 06 c5 29
83 6d 23 Ÿ.ŸAtqŸ.b.Ÿ).m#

Value 8
Name: WbemAdapFileTime
Type: REG_BINARY
Data: 00 60 a9 0f c6 f2 c2 01 -
..Ÿ.ŸbŸ.Ÿ.

Value 9
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x23000

Value 10
Name: WbemAdapStatus
Type: REG_DWORD

```

```

Data: 0

Value 11
Name: 1010
Type: REG_QWORD
Data: c2 4a d7 fd d9 69 c4 01 -
ĂŸŸŸŸiĂ.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Spooler\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00 ..Ÿ.....
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 .....
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00 .....
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Spooler\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_SPOOLER\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SQLSERVERAGENT
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x10

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: C:\PROGRA-1\MICROS-1\MSSQL\bin\sqlagent.exe

Value 4
Name: DisplayName
Type: REG_SZ
Data: SQLSERVERAGENT

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: MSSQLSERVER

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SQLSERVERAGENT\Security
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:07 AM
Value 0
Name: Security
Type: REG_BINARY
Data: 00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....

```

```

00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..\.....ÿ...
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Srv
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x2

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x6

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\srv.sys

Value 5
Name: DisplayName
Type: REG_SZ
Data: Srv

Value 6
Name: Group
Type: REG_SZ
Data: Network

Value 7
Name: Description
Type: REG_SZ
Data: Srv

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Srv\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Srv\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_SRV\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
stisvc
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: Type
Type: REG_DWORD

```

```

Data: 0x20

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

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k imgsvc

Value 4
Name: DisplayName
Type: REG_SZ
Data: Windows Image Acquisition (WIA)

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs
ShellHWDetection

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\LocalService

Value 8
Name: Description
Type: REG_SZ
Data: Provides image acquisition
services for scanners and cameras.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
stisvc\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:15 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\wiaservc.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
stisvc\Security
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0

```

```

Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..Ÿ.....
00000040 01 01 00 00 00 00 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 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\
swenum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

```

```

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

```

```

Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Value 3
Name: DisplayName
Type: REG_SZ
Data: Software Bus Driver

```

```

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\swenum.sys

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
swenum\Devices
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
swenum\Devices\{eeab7790-c514-11d1-b42b-00805fc1270e}
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
swenum\Devices\{eeab7790-c514-11d1-b42b-
00805fc1270e}\asynmac
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
swenum\Devices\{eeab7790-c514-11d1-b42b-
00805fc1270e}\asynmac\{ad498944-762f-11d0-8dcb-
00c04fc3358c}
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
swenum\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

```

```

Value 0
Name: 0
Type: REG_SZ
Data: Root\SYSTEM\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
swprv
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

```

```

Value 0
Name: Type
Type: REG_DWORD
Data: 0x10

```

```

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

```

```

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k swprv

```

```

Value 4
Name: DisplayName
Type: REG_SZ
Data: Microsoft Software Shadow Copy
Provider

```

```

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS

```

```

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

```

```

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

```

```

Value 8
Name: Description
Type: REG_SZ
Data: Manages software-based volume
shadow copies taken by the Volume Shadow Copy
service. If this service is stopped, software-based
volume shadow copies cannot be managed. If this
service is disabled, any services that explicitly
depend on it will fail to start.

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
swprv\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

```

```

Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %Systemroot%\System32\swprv.dll

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
swprv\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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\
symc810
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

```

```

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

```

```

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x1a

```

```

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
symc810\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
symc810\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0

```

```

Name: 5
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
symc8xx
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

```

```

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

```

```

Value 3
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Value 4
Name: Tag
Type: REG_DWORD
Data: 0x36

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
symc8xx\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
symc8xx\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
symmpi
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

```

```

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

```

```

Value 3
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
symmpi\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
symmpi\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sym_hi
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

```

```

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

```

```

Value 3
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Value 4
Name: Tag
Type: REG_DWORD
Data: 0x37

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sym_hi\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sym_hi\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sym_u3
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Type
Type: REG_DWORD
Data: 0x1

Value 4
Name: Tag
Type: REG_DWORD
Data: 0x37

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sym_u3\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
sym_u3\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: 5
Type: REG_DWORD

Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SysmonLog
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

Name: Description
Type: REG_SZ
Data: Collects performance data from local or remote computers based on preconfigured schedule parameters, then writes the data to a log or triggers an alert. If this service is stopped, performance information will not be collected. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 1
Name: DisplayName
Type: REG_SZ
Data: Performance Logs and Alerts

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\smlogsvc.exe

Value 4
Name: ObjectName
Type: REG_SZ
Data: NT Authority\NetworkService

Value 5
Name: Start
Type: REG_DWORD
Data: 0x3

Value 6
Name: Type
Type: REG_DWORD
Data: 0x10

Value 7
Name: DefaultLogFileFolder
Type: REG_EXPAND_SZ
Data: %SystemDrive%\PerfLogs

Value 8
Name: FailureActions
Type: REG_BINARY
Data: 00000000 3c 00 00 00 00 00 00 00 - 00 00 00 00 03
00 00 00 <.....>
00000010 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 <.....>

00 00 00 00 00 00 00 00 - 00 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SysmonLog\Log Queries
Class Name: <NO CLASS>
Last Write Time: 7/14/2004 - 2:38 PM
Value 0
Name: Defaults Installed
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SysmonLog\Log Queries\{a1a19553-6994-4762-83dc-
be43f9112d9c}
Class Name: <NO CLASS>
Last Write Time: 7/14/2004 - 4:20 PM
Value 0
Name: Current State
Type: REG_DWORD
Data: 0

Value 1
Name: Log Type
Type: REG_DWORD
Data: 0

Value 2
Name: Collection Name
Type: REG_SZ
Data: Network Logs

Value 3
Name: Counter List
Type: REG_MULTI_SZ
Data: \\ARIZONA\Network Interface(*)*

Value 4
Name: Sample Interval
Type: REG_BINARY
Data: 00000000 02 00 04 00 03 00 00 00 - 01 00 00 00 01
00 00 00 <.....>

Value 5
Name: Comment
Type: REG_SZ
Data:

Value 6
Name: RealTime DataSource
Type: REG_DWORD
Data: 0x1

Value 7
Name: Log File Max Size
Type: REG_DWORD
Data: 0xffffffff

Value 8
 Name: Data Store Attributes
 Type: REG_DWORD
 Data: 0x22

Value 9
 Name: Log File Base Name
 Type: REG_SZ
 Data: Network Logs

Value 10
 Name: Sql Log Base Name
 Type: REG_SZ
 Data: SQL:!Network Logs

Value 11
 Name: Log File Serial Number
 Type: REG_DWORD
 Data: 0x4

Value 12
 Name: Log File Folder
 Type: REG_SZ
 Data: C:\PerfLogs

Value 13
 Name: Log File Auto Format
 Type: REG_DWORD
 Data: 0x1

Value 14
 Name: Log File Type
 Type: REG_DWORD
 Data: 0x2

Value 15
 Name: EOF Command File
 Type: REG_SZ
 Data:

Value 16
 Name: Start
 Type: REG_BINARY
 Data: 00000000 01 00 01 00 00 00 00 00 - ff ff ff ff ff ff ff 7fÿÿÿÿÿÿÿÿ.

Value 17
 Name: Stop
 Type: REG_BINARY
 Data: 00000000 01 00 02 00 00 00 00 00 - 00 00 00 00 00 00 00
 00 00 00

Value 18
 Name: Restart
 Type: REG_BINARY
 Data: 00 00 00 00

Value 19
 Name: Last Modified
 Type: REG_BINARY
 Data: 00000000 01 00 05 00 00 00 00 00 - b0 c0 a6 66 e8 69 c4 01*À|fèiÄ.

Value 20
 Name: Current Log File Name
 Type: REG_SZ
 Data: C:\PerfLogs\Network
 Logs_000003.blg

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SysmonLog\Log Queries\{e6c350c0-afd9-461b-b05e-01913d6f2817}
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 10:02 PM

Value 0
 Name: Current State
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Log Type
 Type: REG_DWORD
 Data: 0

Value 2
 Name: Collection Name
 Type: REG_SZ
 Data: System Overview

Value 3
 Name: Collection Name Indirect
 Type: REG_SZ
 Data: @C:\WINDOWS\system32\smlogcfg.dll,-731

Value 4
 Name: Counter List
 Type: REG_MULTI_SZ
 Data: \Processor(_Total)\% Processor Time
 \Memory\Pages/sec
 \PhysicalDisk(_Total)\Avg. Disk Queue Length

Value 5
 Name: Sample Interval
 Type: REG_BINARY
 Data: 00000000 02 00 04 00 03 00 00 00 - 0f 00 00 00 01 00 00 00
 00 00 00

Value 6
 Name: Comment
 Type: REG_SZ

Data: This sample log provides an overview of system performance.

Value 7
 Name: Comment Indirect
 Type: REG_SZ
 Data: @C:\WINDOWS\system32\smlogcfg.dll,-735

Value 8
 Name: RealTime DataSource
 Type: REG_DWORD
 Data: 0x1

Value 9
 Name: Log File Max Size
 Type: REG_DWORD
 Data: 0xffffffff

Value 10
 Name: Data Store Attributes
 Type: REG_DWORD
 Data: 0x21

Value 11
 Name: Log File Base Name
 Type: REG_SZ
 Data: System_Overview

Value 12
 Name: Log File Base Name Indirect
 Type: REG_SZ
 Data: @C:\WINDOWS\system32\smlogcfg.dll,-744

Value 13
 Name: Sql Log Base Name
 Type: REG_SZ
 Data: SQL:!System Overview

Value 14
 Name: Log File Serial Number
 Type: REG_DWORD
 Data: 0x1

Value 15
 Name: Log File Folder
 Type: REG_SZ
 Data: C:\PerfLogs

Value 16
 Name: Log File Auto Format
 Type: REG_DWORD
 Data: 0xffffffff

Value 17
 Name: Log File Type
 Type: REG_DWORD
 Data: 0x2

Value 18
 Name: EOF Command File
 Type: REG_SZ

```

Data:
Value 19
Name:          Start
Type:          REG_BINARY
Data:
00000000  01 00 01 00 00 00 00 00 - ff ff ff ff ff
ff ff 7f  .....ÿÿÿÿÿÿ.

Value 20
Name:          Stop
Type:          REG_BINARY
Data:
00000000  01 00 02 00 00 00 00 00 - 00 00 00 00 00
00 00 00  .....

Value 21
Name:          Restart
Type:          REG_BINARY
Data:
00 00 00 00
....

Value 22
Name:          Last Modified
Type:          REG_BINARY
Data:
00000000  01 00 05 00 00 00 00 00 - 0c 4e 09 1e dd
db c3 01  .....N      .ÿÖ.

Value 23
Name:          ExecuteOnly
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SysmonLog\Security
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name:          Security
Type:          REG_BINARY
Data:
00000000  01 00 14 80 94 00 00 00 - a0 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 64 00 04 00 00 00 - 00 00 18 00 9d
01 02 00  .d.....
00000040  01 02 00 00 00 00 00 05 - 20 00 00 00 23
02 00 00  .....#...
00000050  00 00 18 00 ff 01 0f 00 - 01 02 00 00 00
00 00 05  ...ÿ.....
00000060  20 00 00 00 20 02 00 00 - 00 00 14 00 fd
01 02 00  ... ..ÿ...

```

```

00000070  01 01 00 00 00 00 00 05 - 12 00 00 00 00
00 18 00  .....
00000080  97 01 00 00 01 02 00 00 - 00 00 00 05 20
00 00 00  .....
00000090  2f 02 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00  /.....
01 01 00 00 00 00 00 05 - 12 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
SysmonLog\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          Root\LEGACY_SYSMONLOG\0000

Value 1
Name:          Count
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TapiSrv
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          DependOnService
Type:          REG_MULTI_SZ
Data:          PlugPlay
RpcsSs

Value 1
Name:          Description
Type:          REG_SZ
Data:          Provides Telephony API (TAPI)
support for clients using programs that control
telephony devices and IP-based voice connections. If
this service is stopped, the function of all
dependent programs will be impaired. If this service
is disabled, any services that explicitly depend on
it will fail to start.

Value 2
Name:          DisplayName
Type:          REG_SZ
Data:          Telephony

Value 3
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

```

```

Value 4
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\System32\svchost.exe
-k tapisrv

Value 5
Name:          ObjectName
Type:          REG_SZ
Data:          LocalSystem

Value 6
Name:          Start
Type:          REG_DWORD
Data:          0x3

Value 7
Name:          Type
Type:          REG_DWORD
Data:          0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TapiSrv\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name:          ServiceDll
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\System32\tapisrv.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TapiSrv\Performance
Class Name:    <NO CLASS>
Last Write Time: 4/4/2004 - 5:09 AM
Value 0
Name:          Close
Type:          REG_SZ
Data:          CloseTapiPerformanceData

Value 1
Name:          Collect
Type:          REG_SZ
Data:          CollectTapiPerformanceData

Value 2
Name:          Library
Type:          REG_SZ
Data:          tapiperf.dll

Value 3
Name:          ObjectList
Type:          REG_SZ
Data:          1150

Value 4
Name:          Open
Type:          REG_SZ
Data:          OpenTapiPerformanceData

```

Value 5
 Name: WbemAdapFileSignature
 Type: REG_BINARY
 Data: 00000000 e1 ab 0c ac 57 cc ee 92 - 27 87 5a 13 fb
 07 d9 8a a*-Wii.'Z.û.Û.

Value 6
 Name: WbemAdapFileTime
 Type: REG_BINARY
 Data: 00 60 a9 0f c6 f2 c2 01 -
 . * . Æ Æ Å .

Value 7
 Name: WbemAdapFileSize
 Type: REG_DWORD
 Data: 0x1800

Value 8
 Name: WbemAdapStatus
 Type: REG_DWORD
 Data: 0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 TapiSrv\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM
 Value 0
 Name: Security
 Type: REG_BINARY
 Data: 00000000 01 00 14 80 6c 00 00 00 - 78 00 00 00 14
 00 00 00l...x.....
 00000010 34 00 00 00 02 00 20 00 - 01 00 00 00 02
 80 18 00 4.....
 00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
 00 00 00 Ÿ.....
 00000030 20 02 00 00 02 00 38 00 - 02 00 00 00 00
 03 18 008.....
 00000040 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
 00 00 00 Ÿ.....
 00000050 20 02 00 00 00 03 18 00 - 9d 00 00 00 01
 02 00 00
 00000060 00 00 00 05 20 00 00 00 - 21 02 00 00 01
 01 00 00
 00000070 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\
 TapiSrv\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM
 Value 0
 Name: 0
 Type: REG_SZ

Data: Root\LEGACY_TAPISRV\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x4

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\tcpip.sys

Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: TCP/IP Protocol Driver

Value 6
 Name: Group
 Type: REG_SZ
 Data: PNP_TDI

Value 7
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: IPsec

Value 8
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 9
 Name: Description
 Type: REG_SZ
 Data: TCP/IP Protocol Driver

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip\Linkage
 Class Name: <NO CLASS>
 Last Write Time: 5/3/2004 - 1:24 PM

Value 0
 Name: Bind
 Type: REG_MULTI_SZ
 Data: \Device\{CE7A3254-EC99-4338-B407-
 7465734E5082}
 \Device\{4349E852-A14E-4787-9E1A-
 431287E38C02}
 \Device\NdisWanIp

Value 1
 Name: Route
 Type: REG_MULTI_SZ
 Data: "{CE7A3254-EC99-4338-B407-
 7465734E5082}"
 "{4349E852-A14E-4787-9E1A-
 431287E38C02}"
 "NdisWanIp"

Value 2
 Name: Export
 Type: REG_MULTI_SZ
 Data: \Device\Tcpip_{CE7A3254-EC99-4338-
 B407-7465734E5082}
 \Device\Tcpip_{4349E852-A14E-4787-
 9E1A-431287E38C02}
 \Device\Tcpip_{C9AAEDDF-6B65-4D92-
 A4D6-D9F8D6EAA4E8}
 \Device\Tcpip_{9C47CAE5-9799-4E1E-
 A92E-4D3D2644658E}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 2/17/2004 - 4:48 PM

Value 0
 Name: NV Hostname
 Type: REG_SZ
 Data: ARIZONA

Value 1
 Name: DataBasePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\drivers\etc

Value 2
 Name: NameServer
 Type: REG_SZ
 Data:

Value 3

Name: ForwardBroadcasts
 Type: REG_DWORD
 Data: 0

Value 4
 Name: IPEnableRouter
 Type: REG_DWORD
 Data: 0

Value 5
 Name: Domain
 Type: REG_SZ
 Data:

Value 6
 Name: Hostname
 Type: REG_SZ
 Data: ARIZONA

Value 7
 Name: SearchList
 Type: REG_SZ
 Data:

Value 8
 Name: UseDomainNameDevolution
 Type: REG_DWORD
 Data: 0x1

Value 9
 Name: EnableICMPRedirect
 Type: REG_DWORD
 Data: 0x1

Value 10
 Name: DeadGWDetectDefault
 Type: REG_DWORD
 Data: 0x1

Value 11
 Name: DontAddDefaultGatewayDefault
 Type: REG_DWORD
 Data: 0

Value 12
 Name: EnableSecurityFilters
 Type: REG_DWORD
 Data: 0

Value 13
 Name: ReservedPorts
 Type: REG_MULTI_SZ
 Data: 1433-1434
 3343-3343

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip\Parameters\Adapters
 Class Name: <NO CLASS>
 Last Write Time: 5/3/2004 - 1:24 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip\Parameters\Adapters\NdisWanIp
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: LLInterface
 Type: REG_SZ
 Data: WANARP

Value 1
 Name: IpConfig
 Type: REG_MULTI_SZ
 Data:
 Tcpip\Parameters\Interfaces\{C9AAEDDF-6B65-4D92-A4D6-
 D9F8D6EAA4E8}

Tcpip\Parameters\Interfaces\{9C47CAE5-9799-4E1E-A92E-
 4D3D2644658E}

Value 2
 Name: NumInterfaces
 Type: REG_DWORD
 Data: 0x2

Value 3
 Name: IpInterfaces
 Type: REG_BINARY
 Data:
 00000000 df de aa c9 65 6b 92 4d - a4 d6 d9 f8 d6
 ea a4 e8 8b*Éek.M00Û00èèèè
 00000010 e5 ca 47 9c 99 97 1e 4e - a9 2e 4d 3d 26
 44 65 8e àÈG...N®.M=&De.

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip\Parameters\Adapters\{4349E852-A14E-4787-9E1A-
 431287E38C02}
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 10:30 PM

Value 0
 Name: LLInterface
 Type: REG_SZ
 Data:

Value 1
 Name: IpConfig
 Type: REG_MULTI_SZ
 Data:
 Tcpip\Parameters\Interfaces\{4349E852-A14E-4787-9E1A-
 431287E38C02}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip\Parameters\Adapters\{CE7A3254-EC99-4338-B407-
 7465734E5082}
 Class Name: <NO CLASS>
 Last Write Time: 5/3/2004 - 1:24 PM

Value 0
 Name: LLInterface
 Type: REG_SZ
 Data:

Type: REG_SZ
 Data:

Value 1
 Name: IpConfig
 Type: REG_MULTI_SZ
 Data:
 Tcpip\Parameters\Interfaces\{CE7A3254-EC99-4338-B407-
 7465734E5082}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip\Parameters\DNSRegisteredAdapters
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip\Parameters\Interfaces
 Class Name: <NO CLASS>
 Last Write Time: 5/3/2004 - 1:24 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 Tcpip\Parameters\Interfaces\{4349E852-A14E-4787-9E1A-
 431287E38C02}
 Class Name: <NO CLASS>
 Last Write Time: 8/2/2004 - 3:35 PM

Value 0
 Name: UseZeroBroadcast
 Type: REG_DWORD
 Data: 0

Value 1
 Name: EnableDeadGWDetect
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: EnabledHCP
 Type: REG_DWORD
 Data: 0

Value 3
 Name: IPAddress
 Type: REG_MULTI_SZ
 Data: 130.168.206.77

Value 4
 Name: SubnetMask
 Type: REG_MULTI_SZ
 Data: 255.255.0.0

Value 5
 Name: DefaultGateway
 Type: REG_MULTI_SZ
 Data:

Value 6
 Name: DefaultGatewayMetric
 Type: REG_MULTI_SZ
 Data:

Value 7
 Name: NameServer
 Type: REG_SZ
 Data: 130.168.1.228

Value 8
 Name: Domain
 Type: REG_SZ
 Data:

Value 9
 Name: RegistrationEnabled
 Type: REG_DWORD
 Data: 0x1

Value 10
 Name: RegisterAdapterName
 Type: REG_DWORD
 Data: 0

Value 11
 Name: TCPAllowedPorts
 Type: REG_MULTI_SZ
 Data: 0

Value 12
 Name: UDPAllowedPorts
 Type: REG_MULTI_SZ
 Data: 0

Value 13
 Name: RawIPAllowedProtocols
 Type: REG_MULTI_SZ
 Data: 0

Value 14
 Name: NTEContextList
 Type: REG_MULTI_SZ
 Data: 0x00000003

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Interfaces\{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: UseZeroBroadcast
 Type: REG_DWORD
 Data: 0

Value 1
 Name: EnabledDHCP
 Type: REG_DWORD
 Data: 0

Value 2
 Name: IPAddress
 Type: REG_MULTI_SZ
 Data: 0.0.0.0

Value 3
 Name: SubnetMask
 Type: REG_MULTI_SZ
 Data: 0.0.0.0

Value 4
 Name: DefaultGateway
 Type: REG_MULTI_SZ
 Data:

Value 5
 Name: EnableDeadGWDetect
 Type: REG_DWORD
 Data: 0x1

Value 6
 Name: DontAddDefaultGateway
 Type: REG_DWORD
 Data: 0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Interfaces\{C9AAEDDF-6B65-4D92-A4D6-D9F8D6EAA4E8}
 Class Name: <NO CLASS>
 Last Write Time: 9/15/2004 - 3:20 PM

Value 0
 Name: UseZeroBroadcast
 Type: REG_DWORD
 Data: 0

Value 1
 Name: EnabledDHCP
 Type: REG_DWORD
 Data: 0

Value 2
 Name: IPAddress
 Type: REG_MULTI_SZ
 Data: 0.0.0.0

Value 3
 Name: SubnetMask
 Type: REG_MULTI_SZ
 Data: 0.0.0.0

Value 4
 Name: DefaultGateway
 Type: REG_MULTI_SZ
 Data:

Value 5
 Name: EnableDeadGWDetect
 Type: REG_DWORD
 Data: 0x1

Value 6
 Name: DontAddDefaultGateway
 Type: REG_DWORD
 Data: 0

Value 7

Name: RegisterAdapterName
 Type: REG_DWORD
 Data: 0

Value 8
 Name: RegistrationEnabled
 Type: REG_DWORD
 Data: 0

Value 9
 Name: DhcpIPAddress
 Type: REG_SZ
 Data: 0.0.0.0

Value 10
 Name: DhcpSubnetMask
 Type: REG_SZ
 Data: 0.0.0.0

Value 11
 Name: Domain
 Type: REG_SZ
 Data:

Value 12
 Name: NameServer
 Type: REG_SZ
 Data:

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Interfaces\{CE7A3254-EC99-4338-B407-7465734E5082}
 Class Name: <NO CLASS>
 Last Write Time: 9/3/2004 - 10:01 AM

Value 0
 Name: UseZeroBroadcast
 Type: REG_DWORD
 Data: 0

Value 1
 Name: EnableDeadGWDetect
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: EnabledDHCP
 Type: REG_DWORD
 Data: 0

Value 3
 Name: IPAddress
 Type: REG_MULTI_SZ
 Data: 130.168.206.78

Value 4
 Name: SubnetMask
 Type: REG_MULTI_SZ
 Data: 255.255.0.0

Value 5
 Name: DefaultGateway

```

Type: REG_MULTI_SZ
Data:

Value 6
Name: DefaultGatewayMetric
Type: REG_MULTI_SZ
Data:

Value 7
Name: NameServer
Type: REG_SZ
Data: 130.168.1.228,130.168.1.232

Value 8
Name: Domain
Type: REG_SZ
Data:

Value 9
Name: RegistrationEnabled
Type: REG_DWORD
Data: 0x1

Value 10
Name: RegisterAdapterName
Type: REG_DWORD
Data: 0

Value 11
Name: TCPAllowedPorts
Type: REG_MULTI_SZ
Data: 0

Value 12
Name: UDPAllowedPorts
Type: REG_MULTI_SZ
Data: 0

Value 13
Name: RawIPAllowedProtocols
Type: REG_MULTI_SZ
Data: 0

Value 14
Name: NTEContextList
Type: REG_MULTI_SZ
Data: 0x00000002

Value 15
Name: DhcpIPAddress
Type: REG_SZ
Data: 0.0.0.0

Value 16
Name: DhcpSubnetMask
Type: REG_SZ
Data: 255.0.0.0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Tcpip\Parameters\PersistentRoutes
Class Name: <NO CLASS>

```

```

Last Write Time: 1/15/2004 - 9:32 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Tcpip\Parameters\Winsock
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: UseDelayedAcceptance
Type: REG_DWORD
Data: 0

Value 1
Name: HelperDllName
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\wshtcpip.dll

Value 2
Name: MaxSockAddrLength
Type: REG_DWORD
Data: 0x10

Value 3
Name: MinSockAddrLength
Type: REG_DWORD
Data: 0x10

Value 4
Name: Mapping
Type: REG_BINARY
Data:
00000000 0b 00 00 00 03 00 00 00 - 02 00 00 00 01
00 00 00 .....
00000010 06 00 00 00 02 00 00 00 - 01 00 00 00 00
00 00 00 .....
00000020 02 00 00 00 00 00 00 00 - 06 00 00 00 00
00 00 00 .....
00000030 00 00 00 00 06 00 00 00 - 00 00 00 00 01
00 00 00 .....
00000040 06 00 00 00 02 00 00 00 - 02 00 00 00 11
00 00 00 .....
00000050 02 00 00 00 02 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000060 00 00 00 00 11 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 11 00 00 00 00 00 00 00 - 02 00 00 00 11
00 00 00 .....
02 00 00 00 03 00 00 00 - 00 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Tcpip\Performance
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:09 AM
Value 0
Name: Close
Type: REG_SZ
Data: CloseTcpIpPerformanceData

Value 1
Name: Collect

```

```

Type: REG_SZ
Data: CollectTcpIpPerformanceData

Value 2
Name: Library
Type: REG_SZ
Data: Perfctrs.dll

Value 3
Name: Open
Type: REG_SZ
Data: OpenTcpIpPerformanceData

Value 4
Name: Object List
Type: REG_SZ
Data: 502 510 546 548 582 638 658 1530
1532 1534

Value 5
Name: WbemAdapFileSignature
Type: REG_BINARY
Data:
00000000 9f 01 f7 4a 3e 46 2d db - 63 34 23 99 76
bb 17 17 ..+J>F-Ûc4#.v>..

Value 6
Name: WbemAdapFileTime
Type: REG_BINARY
Data:
00 60 a9 0f c6 f2 c2 01 -
.´®.ËôÃ.

Value 7
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0xaa00

Value 8
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Tcpip\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 ý.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..´.....ý...

```



```

00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Tcpip\ServiceProvider
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Class
Type: REG_DWORD
Data: 0x8
Value 1
Name: DnsPriority
Type: REG_DWORD
Data: 0x7d0
Value 2
Name: HostsPriority
Type: REG_DWORD
Data: 0x1f4
Value 3
Name: LocalPriority
Type: REG_DWORD
Data: 0x1f3
Value 4
Name: ProviderPath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\wsock32.dll
Value 5
Name: NetbtPriority
Type: REG_DWORD
Data: 0x7d1
Value 6
Name: Name
Type: REG_SZ
Data: TCP/IP

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Tcpip\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

```

```

Name: 0
Type: REG_SZ
Data: Root\LEGACY_TCPIP\0000
Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TDPIPE
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0
Value 1
Name: Start
Type: REG_DWORD
Data: 0x3
Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TDTCP
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0
Value 1
Name: Start
Type: REG_DWORD
Data: 0x3
Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TDTCP\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0

```

```

Name: 0
Type: REG_SZ
Data: Root\LEGACY_TDTCP\0000
Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TermDD
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Start
Type: REG_DWORD
Data: 0x1
Value 1
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 2
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\termdd.sys

```

```

Value 3
Name: Type
Type: REG_DWORD
Data: 0x1
Value 4
Name: DisplayName
Type: REG_SZ
Data: Terminal Device Driver
Value 5
Name: PortDriverEnable
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TermDD\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00 .....

```

```

00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 ý.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..~.....ý...
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ý.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....ý...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 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\
TermDD\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

```

```

Value 0
Name: 0
Type: REG_SZ
Data: Root\RDP_KBD\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x2

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x2

```

```

Value 3
Name: 1
Type: REG_SZ
Data: Root\RDP_MOU\0000

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TermService
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

```

```

Value 0
Name: Start
Type: REG_DWORD
Data: 0x3

```

```

Value 1
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

```

```

Value 3
Name: Description
Type: REG_SZ
Data: Allows users to connect
interactively to a remote computer. Remote Desktop,
Fast User Switching, Remote Assistance, and Terminal
Server depend on this service - stopping or disabling
this service may make your computer unreliable. To
prevent remote use of this computer, clear the
checkboxes on the Remote tab of the System properties
control panel item.

```

```

Value 4
Name: DisplayName
Type: REG_SZ
Data: Terminal Services

```

```

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS

```

```

Value 6
Name: Type
Type: REG_DWORD
Data: 0x20

```

```

Value 7
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe

```

-k termsvcs

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TermService\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:46 PM

```

```

Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\termsrv.dll

```

```

Value 1
Name: Certificate
Type: REG_BINARY
Data:

```

```

00000000 01 00 00 00 01 00 00 00 - 01 00 00 00 06
00 5c 00 .....\.
00000010 52 53 41 31 48 00 00 00 - 00 02 00 00 3f
00 00 00 RSA1H.....?...
00000020 01 00 01 00 67 2e 79 24 - d8 81 37 73 43
5e 40 22 ...g.y$0.7sC^D"
00000030 28 53 f0 d8 ed b3 da e6 - 35 48 68 95 cf
0c 50 32 (S00i'Uæ5Hh.İ.P2
00000040 db 03 9e 32 b5 d9 17 32 - 47 8a 10 93 52
47 91 b4 Ū..2µŪ.2G...RG.'

```

```

00000050 43 16 1d 1e 38 f0 7e ba - 27 06 d7 ac 84
10 17 dd C..80~'.x~..ý
00000060 fa 37 2d d3 00 00 00 - 00 00 00 00 08
00 48 00 ú7-Ó.....H.
00000070 2f af de d5 56 a3 46 85 - a4 0d b1 e8 8f
f5 df 15 /"bÖVEF.P.±è.6S.
00000080 c6 a1 82 0f e9 20 c4 15 - da 71 ed b0 25
8d 97 2d Æ;..é.Ä.Úqi*%!..-
00000090 ac 6a 08 ab c1 ce a4 62 - 60 22 03 2b 40
9e 02 01 -j.«Äîb`".+@...
000000a0 2e 37 0b 1c ae 33 d3 c5 - d8 86 aa 32 e7
cf ad 81 .7..03ÓÄ.*2çf-.
00 00 00 00 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TermService\Performance
Class Name: <NO CLASS>
Last Write Time: 4/4/2004 - 5:09 AM

```

```

Value 0
Name: Close
Type: REG_SZ
Data: CloseTSObject

```

```

Value 1
Name: Collect Timeout
Type: REG_DWORD
Data: 0x3e8

```

```

Value 2
Name: Collect
Type: REG_SZ
Data: CollectTSObjectData

```

```

Value 3
Name: Open Timeout
Type: REG_DWORD
Data: 0x3e8

```

```

Value 4
Name: Open
Type: REG_SZ
Data: OpenTSObject

```

```

Value 5
Name: Library
Type: REG_SZ
Data: perfnts.dll

```

```

Value 6
Name: PerfIniFile
Type: REG_SZ
Data: tslabels.ini

```

```

Value 7
Name: Last Counter
Type: REG_DWORD
Data: 0x83c

```

```

Value 8
Name: Last Help

```

```

Type:          REG_DWORD
Data:          0x83d

Value 9
Name:          First Counter
Type:          REG_DWORD
Data:          0x7bc

Value 10
Name:          First Help
Type:          REG_DWORD
Data:          0x7bd

Value 11
Name:          Object List
Type:          REG_SZ
Data:          1980 2102

Value 12
Name:          Library Validation Code
Type:          REG_BINARY
Data:          00 00 00 00 00 60 a9 0f c6 f2 c2 01 - 00 34 00 00 00
00 00 00 00 .~®.ËðÄ..4.....

Value 13
Name:          WbemAdapFileSignature
Type:          REG_BINARY
Data:          00000000 28 7b d4 b8 7d 01 9f c6 - c4 f7 19 b8 be
db 30 99 ({Û,}.ËÄ+.ÏÜ0.

Value 14
Name:          WbemAdapFileTime
Type:          REG_BINARY
Data:          00 60 a9 0f c6 f2 c2 01 -
..~®.ËðÄ.

Value 15
Name:          WbemAdapFileSize
Type:          REG_DWORD
Data:          0x3400

Value 16
Name:          WbemAdapStatus
Type:          REG_DWORD
Data:          0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TermService\Enum
Class Name:    <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name:          0
Type:          REG_SZ
Data:          Root\LEGACY_TERMSERVICE\0000

Value 1

```

```

Name:          Count
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          NextInstance
Type:          REG_DWORD
Data:          0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Themes
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x20

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

Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 3
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\System32\svchost.exe
-k netsvcs

Value 4
Name:          DisplayName
Type:          REG_SZ
Data:          Themes

Value 5
Name:          Group
Type:          REG_SZ
Data:          UIGroup

Value 6
Name:          ObjectName
Type:          REG_SZ
Data:          LocalSystem

Value 7
Name:          FailureActions
Type:          REG_BINARY
Data:          00000000 80 51 01 00 00 00 00 00 - 00 00 00 00 03
00 00 00 .Q.....
00000010 53 00 65 00 01 00 00 00 - 60 ea 00 00 01
00 00 00 S.e.....~è.....
60 ea 00 00 00 00 00 00 00 - 00 00 00 00
~è.....

Value 8

```

```

Name:          Description
Type:          REG_SZ
Data:          Provides user experience theme
management.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Themes\Parameters
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name:          ServiceDll
Type:          REG_EXPAND_SZ
Data:          %SystemRoot%\System32\shsvcs.dll

Value 1
Name:          ServiceMain
Type:          REG_SZ
Data:          ThemeServiceMain

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Themes\Security
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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\
TlntSvr
Class Name:    <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name:          Type
Type:          REG_DWORD

```

```

Data: 0x10
Value 1
Name: Start
Type: REG_DWORD
Data: 0x4
Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\tlntsvr.exe
Value 4
Name: DisplayName
Type: REG_SZ
Data: Telnet
Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS
TCPIP
NTLMSSP
Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:
Value 7
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\LocalService
Value 8
Name: Description
Type: REG_EXPAND_SZ
Data: Enables a remote user to log on to
this computer and run programs, and supports various
TCP/IP Telnet clients, including UNIX-based and
Windows-based computers. If this service is stopped,
remote user access to programs might be unavailable.
If this service is disabled, any services that
explicitly depend on it will fail to start.
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TlntSvr\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..^.....y...
00000040 01 01 00 00 00 00 00 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 y.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....y...
00000080 01 02 00 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TosIde
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 1
Name: Group
Type: REG_SZ
Data: System Bus Extender
Value 2
Name: Start
Type: REG_DWORD
Data: 0x4
Value 3
Name: Tag
Type: REG_DWORD
Data: 0x4
Value 4
Name: Type
Type: REG_DWORD
Data: 0x1
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TrkSvr
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Description
Type: REG_SZ
Data: Enables the Distributed Link
Tracking Client service within the same domain to

```

```

provide more reliable and efficient maintenance of
links within the domain. If this service is disabled,
any services that explicitly depend on it will fail
to start.
Value 1
Name: DisplayName
Type: REG_SZ
Data: Distributed Link Tracking Server
Value 2
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs
Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs
Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem
Value 6
Name: Start
Type: REG_DWORD
Data: 0x4
Value 7
Name: Type
Type: REG_DWORD
Data: 0x20
Value 8
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:
Value 9
Name: Group
Type: REG_SZ
Data:
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
TrkSvr\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\trksvr.dll

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\TrkWks
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Description
Type: REG_SZ
Data: Enables client programs to track linked files that are moved within an NTFS volume, to another NTFS volume on the same computer, or to an NTFS volume on another computer. If this service is stopped, the links on this computer will not be maintained or tracked. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 1
Name: DisplayName
Type: REG_SZ
Data: Distributed Link Tracking Client

Value 2
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k netsvcs

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Start
Type: REG_DWORD
Data: 0x4

Value 7
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\TrkWks\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\trkwks.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\TrkWks\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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 8d
01 02 00
00000040 01 01 00 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000050 9d 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00
00000060 23 02 00 00 00 00 18 00 - ff 01 0f 00 01
02 00 00 #.....Ÿ.....
00000070 00 00 00 05 20 00 00 00 - 20 02 00 00 00
00 14 00
00000080 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
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\TrkWks\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_TRKWKS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\TSDDD
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\TSDDD\Device0
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: InstalledDisplayDrivers
Type: REG_MULTI_SZ
Data: TSDDD

Value 1
Name: VgaCompatible
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tsdis
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Type
Type: REG_DWORD
Data: 0x10

Value 2
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 3
Name: Start
Type: REG_DWORD
Data: 0x3

Value 4
Name: Description
Type: REG_SZ
Data: Enables a user connection request to be routed to the appropriate terminal server in a cluster. If this service is stopped, connection requests will be routed to the first available server.

Value 5
Name: DisplayName
Type: REG_SZ
Data: Terminal Services Session
Directory

Value 6
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\tssdis.exe

Value 7
Name: DependOnService

Type: REG_MULTI_SZ
Data: RPCSS

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tssdis\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_TSSDIS\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Udfs
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group
Type: REG_SZ
Data: File system

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

Value 3
Name: Type
Type: REG_DWORD
Data: 0x2

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ultra
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Group

Type: REG_SZ
Data: SCSI miniport

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

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x3b

Value 4
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ultra\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ultra\Parameters\PnpInterface
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: 5
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Update
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

Value 3
Name: DisplayName
Type: REG_SZ
Data: Microcode Update Driver

Value 4
Name: ImagePath

Type: REG_EXPAND_SZ
Data: system32\DRIVERS\update.sys

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Update\Devices
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Update\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\SYSTEM\0001

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\uploadmgr
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Upload Manager

Value 5

```

Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 8
Name: Description
Type: REG_SZ
Data: Manages the synchronous and asynchronous file transfers between clients and servers on the network. Driver data is anonymously uploaded from these transfers and then used by Microsoft to help users find the drivers they need. The Driver Feedback Server asks the client's permission to upload the computer's hardware profile and then search the Internet for information about how to obtain the appropriate driver or get support. If this service stops, Microsoft will not have access to the driver data.

Value 9
Name: FailureActions
Type: REG_BINARY
Data:
00000000 80 51 01 00 00 00 00 00 - 00 00 00 00 03
00 00 00 .Q.....
00000010 53 00 65 00 01 00 00 00 - 64 00 00 00 01
00 00 00 S.e....d.....
64 00 00 00 00 00 00 00 - 64 00 00 00
d.....d...

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
uploadmgr\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data:
%WINDIR%\PCHHealth\HelpCtr\Binaries\pchsvc.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
uploadmgr\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 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\
UPS
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: Description
Type: REG_SZ
Data: Manages an uninterruptible power supply (UPS) connected to the computer.

Value 1
Name: DisplayName
Type: REG_SZ
Data: Uninterruptible Power Supply

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\ups.exe

Value 4
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\LocalService

Value 5
Name: Start
Type: REG_DWORD
Data: 0x3

Value 6
Name: Type
Type: REG_DWORD

```

```

Data: 0x10

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
usbehci
Class Name: <NO CLASS>
Last Write Time: 1/30/2004 - 11:18 AM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: DisplayName
Type: REG_SZ
Data: Microsoft USB 2.0 Enhanced Host
Controller Miniport Driver

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\usbehci.sys

Value 5
Name: Group
Type: REG_SZ
Data: Base

Value 6
Name: Tag
Type: REG_DWORD
Data: 0xf

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
usbhub
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD

```

Data: 0x1

Value 3
Name: DisplayName
Type: REG_SZ
Data: USB2_Enabled Hub

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\usbhub.sys

Value 5
Name: Group
Type: REG_SZ
Data: Base

Value 6
Name: Tag
Type: REG_DWORD
Data: 0x11

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
usbhub\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: USB\ROOT_HUB\5&9b4cd91&0

Value 1
Name: Count
Type: REG_DWORD
Data: 0x2

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x2

Value 3
Name: 1
Type: REG_SZ
Data: USB\ROOT_HUB\5&194cd4cc&0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
usbhcci
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: DisplayName
Type: REG_SZ
Data: Microsoft USB Open Host Controller
Miniport Driver

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\usbhcci.sys

Value 5
Name: Group
Type: REG_SZ
Data: Base

Value 6
Name: Tag
Type: REG_DWORD
Data: 0x10

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
usbhcci\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0B\4&12365a
d0&0&0018

Value 1
Name: Count
Type: REG_DWORD
Data: 0x2

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x2

Value 3
Name: 1
Type: REG_SZ
Data: PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0B\4&12365a
d0&0&0118

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
USBSTOR
Class Name: <NO CLASS>
Last Write Time: 1/28/2004 - 4:35 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\USBSTOR.SYS

Value 4
Name: DisplayName
Type: REG_SZ
Data: USB Mass Storage Driver

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
USBSTOR\Security
Class Name: <NO CLASS>
Last Write Time: 1/28/2004 - 12:37 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 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 ..Ÿ.....
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
vds
Class Name: <NO CLASS>

Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: RpcSs
 PlugPlay

Value 1
 Name: Type
 Type: REG_DWORD
 Data: 0x10

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 3
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\vds.exe

Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: Virtual Disk Service

Value 6
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 7
 Name: Description
 Type: REG_SZ
 Data: Provides software volume and hardware volume management service.

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\vds\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: Security
 Type: REG_BINARY
 Data:
 00000000 01 00 14 80 a8 00 00 00 - b4 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 78 00 05 00 00 00 - 00 00 14 00 fd
 01 02 00 ..x.....Ÿ...
 00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
 00 18 00

00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
 00 00 00 Ÿ.....
 00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
 01 00 00
 00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
 01 02 00Ÿ...
 00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 00 00 18 00 70 00 00 00 - 01 02 00 00 00
 00 00 05p.....
 000000a0 20 00 00 00 27 02 00 00 - 01 01 00 00 00
 00 00 05!.....
 000000b0 12 00 00 00 01 00 00 - 00 00 00 05 12
 00 00 00

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\vds\SoftwareProviders
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\vds\SoftwareProviders\{CA7DE14F-5BC8-48fd-93DE-A19527B0459E}
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: <NO NAME>
 Type: REG_SZ
 Data: Microsoft Virtual Disk Service
 Basic Provider

Value 1
 Name: Clsid
 Type: REG_SZ
 Data: {DE010DA1-289B-4232-8CD0-5112DCA6A7B3}

Value 2
 Name: Version
 Type: REG_SZ
 Data: 1.0.0.1

Value 3
 Name: VersionId
 Type: REG_SZ
 Data: {21CBA22B-9418-43c7-8B77-80F0B410D503}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\vds\SoftwareProviders\{F96544E6-5C8D-47b9-AA6E-FD19AB278629}
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: <NO NAME>
 Type: REG_SZ
 Data:

Data: Microsoft Virtual Disk Service
 Dynamic Provider

Value 1
 Name: Clsid
 Type: REG_SZ
 Data: {DEB10DEB-289B-4232-8CD0-5112DCA6A7B3}

Value 2
 Name: Version
 Type: REG_SZ
 Data: 1.0.0.1

Value 3
 Name: VersionId
 Type: REG_SZ
 Data: {FE71AD60-99F3-4015-8B81-44C1516F9B9C}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\vds\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_VDS\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\vga
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 3

```

Name: Tag
Type: REG_DWORD
Data: 0x2

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\vgapnp.sys

Value 5
Name: Group
Type: REG_SZ
Data: Video

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
vga\Device0
Class Name: <NO CLASS>
Last Write Time: 2/17/2004 - 4:45 PM
Value 0
Name: InstalledDisplayDrivers
Type: REG_MULTI_SZ
Data: vga
framebuf
vga256
vga64k

Value 1
Name: VgaCompatible
Type: REG_DWORD
Data: 0x1

Value 2
Name: Acceleration.Level
Type: REG_DWORD
Data: 0x5

Value 3
Name: Device Description
Type: REG_SZ
Data: Standard VGA Graphics Adapter

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
vga\Security
Class Name: <NO CLASS>
Last Write Time: 2/17/2004 - 4:45 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 05 - 12 00 00 00 00
00 18 00 .....

```

```

00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
vga\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data:
PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_27\4&12365a
d0&0&1818

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
VgaSave
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Description
Type: REG_SZ
Data: Controls the VGA display adapter
to provide basic display capabilities.

Value 1
Name: DisplayName
Type: REG_SZ
Data: VGA Display Controller.

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 3
Name: Group
Type: REG_SZ
Data: Video Save

```

```

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: \SystemRoot\System32\drivers\vga.sys

Value 5
Name: Start
Type: REG_DWORD
Data: 0x1

Value 6
Name: Tag
Type: REG_DWORD
Data: 0x1

Value 7
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
VgaSave\Device0
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: InstalledDisplayDrivers
Type: REG_MULTI_SZ
Data: vga
framebuf
vga256
vga64k

Value 1
Name: VgaCompatible
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
VgaSave\Video
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: VideoID
Type: REG_SZ
Data: {23A77BF7-ED96-40EC-AF06-
9B1F4867732A}

Value 1
Name: Service
Type: REG_SZ
Data: VgaSave

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
VgaSave\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

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Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_VGASAVE\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: INITSTARTFAILED
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 ViaIde
 Class Name: <NO CLASS>
 Last Write Time: 1/4/2004 - 1:14 AM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Group
 Type: REG_SZ
 Data: System Bus Extender

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

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x4

Value 4
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 VolSnap
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1

Name: Group
 Type: REG_SZ
 Data: System Bus Extender

Value 2
 Name: Start
 Type: REG_DWORD
 Data: 0

Value 3
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Storage volumes

Value 5
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\volsnap.sys

Value 6
 Name: Tag
 Type: REG_DWORD
 Data: 0x2

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
 VolSnap\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_VOLSNAP\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x15

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x15

Value 3
 Name: 1
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EE9COffset1000LengthA02100000

Value 4
 Name: 2
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EE9EOffset1000Length16B4100000

Value 5
 Name: 3
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EE90Offset1000LengthA02100000

Value 6
 Name: 4
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EE91Offset1000Length16B4100000

Value 7
 Name: 5
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EE90Offset1000LengthA02100000

Value 8
 Name: 6
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EEEAOffset1000Length16B4100000

Value 9
 Name: 7
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EEEBOffset7E00LengthA1B579B000

Value 10
 Name: 8
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EE92Offset1000LengthA02100000

Value 11
 Name: 9
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EE93Offset1000Length16B4100000

Value 12
 Name: 10
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EE94Offset7E00LengthA1B579B000

Value 13
 Name: 11
 Type: REG_SZ
 Data: STORAGE\Volume\1&30a96598&0&Signature74C7EE95Offset1000LengthA02100000

Value 14
 Name: 12
 Type: REG_SZ
 Data:
 STORAGE\Volume\1&30a96598&0&Signature74C7EE96Offset1000Length16B4100000

Value 15
 Name: 13
 Type: REG_SZ
 Data:
 STORAGE\Volume\1&30a96598&0&Signature74C7EEE8Offset7E00Length1B579B000

Value 16
 Name: 14
 Type: REG_SZ
 Data:
 STORAGE\Volume\1&30a96598&0&SignatureEBDECF6Offset1000Length43D5A00000

Value 17
 Name: 15
 Type: REG_SZ
 Data:
 STORAGE\Volume\1&30a96598&0&Signature74C7EEECOffset1000LengthA02100000

Value 18
 Name: 16
 Type: REG_SZ
 Data:
 STORAGE\Volume\1&30a96598&0&Signature74C7EEEDOffset1000Length16B4100000

Value 19
 Name: 17
 Type: REG_SZ
 Data:
 STORAGE\Volume\1&30a96598&0&Signature74C7EEEEOffset1000LengthA02100000

Value 20
 Name: 18
 Type: REG_SZ
 Data:
 STORAGE\Volume\1&30a96598&0&Signature74C7EEEFOffset1000Length16B4100000

Value 21
 Name: 19
 Type: REG_SZ
 Data:
 STORAGE\Volume\1&30a96598&0&Signature74C7EEE0Offset7E00Length1B579B000

Value 22
 Name: 20
 Type: REG_SZ
 Data:
 STORAGE\Volume\1&30a96598&0&Signature4C6B4C6BOffset4000Length87A3D0000

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\VSS
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: DependOnService
 Type: REG_MULTI_SZ
 Data: RPCSS

Value 1
 Name: Description
 Type: REG_SZ
 Data: Manages and implements Volume Shadow Copies used for backup and other purposes. If this service is stopped, shadow copies will be unavailable for backup and the backup may fail. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 2
 Name: DisplayName
 Type: REG_SZ
 Data: Volume Shadow Copy

Value 3
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\vssvc.exe

Value 5
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 6
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 7
 Name: Type
 Type: REG_DWORD
 Data: 0x10

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\VSS\Providers
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\VSS\Providers\{b5946137-7b9f-4925-af80-51abd60b20d5}
 Class Name: <NO CLASS>

Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: <NO NAME>
 Type: REG_SZ
 Data: Microsoft Software Shadow Copy provider 1.0

Value 1
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: Version
 Type: REG_SZ
 Data: 1.0.0.7

Value 3
 Name: VersionId
 Type: REG_SZ
 Data: {00000001-0000-0000-0007-000000000001}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\VSS\Providers\{b5946137-7b9f-4925-af80-51abd60b20d5}\CLSID
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: <NO NAME>
 Type: REG_SZ
 Data: {65EE1DBA-8FF4-4a58-AC1C-3470EE2F376A}

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\VSS\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_VSS\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Description
 Type: REG_SZ
 Data: Maintains date and time synchronization on all clients and servers in the network. If this service is stopped, date and time synchronization will be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.

Value 1
 Name: DisplayName
 Type: REG_SZ
 Data: Windows Time

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: FailureActions
 Type: REG_BINARY
 Data: 00000000 05 00 00 00 00 00 00 00 - 00 00 00 00 02
 00 00 00
 00000010 64 00 20 00 01 00 00 00 - 60 ea 00 00 01
 00 00 00 d.`ê.....
 60 ea 00 00
 `ê..

Value 4
 Name: Group
 Type: REG_SZ
 Data:

Value 5
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\System32\svchost.exe
 -k netsvcs

Value 6
 Name: Objectname
 Type: REG_SZ
 Data: LocalSystem

Value 7
 Name: Start
 Type: REG_DWORD
 Data: 0x4

Value 8
 Name: Type
 Type: REG_DWORD
 Data: 0x20

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Config
 Class Name: <NO CLASS>

Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: LastClockRate
 Type: REG_DWORD
 Data: 0x2625a

Value 1
 Name: MinClockRate
 Type: REG_DWORD
 Data: 0x260d4

Value 2
 Name: MaxClockRate
 Type: REG_DWORD
 Data: 0x263e0

Value 3
 Name: FrequencyCorrectRate
 Type: REG_DWORD
 Data: 0x4

Value 4
 Name: PollAdjustFactor
 Type: REG_DWORD
 Data: 0x5

Value 5
 Name: LargePhaseOffset
 Type: REG_DWORD
 Data: 0x2faf080

Value 6
 Name: SpikeWatchPeriod
 Type: REG_DWORD
 Data: 0x384

Value 7
 Name: HoldPeriod
 Type: REG_DWORD
 Data: 0x5

Value 8
 Name: LocalClockDispersion
 Type: REG_DWORD
 Data: 0xa

Value 9
 Name: EventLogFlags
 Type: REG_DWORD
 Data: 0x2

Value 10
 Name: PhaseCorrectRate
 Type: REG_DWORD
 Data: 0x1

Value 11
 Name: MinPollInterval
 Type: REG_DWORD
 Data: 0xa

Value 12
 Name: MaxPollInterval

Type: REG_DWORD
 Data: 0xf

Value 13
 Name: UpdateInterval
 Type: REG_DWORD
 Data: 0x57e40

Value 14
 Name: MaxNegPhaseCorrection
 Type: REG_DWORD
 Data: 0xd2f0

Value 15
 Name: MaxPosPhaseCorrection
 Type: REG_DWORD
 Data: 0xd2f0

Value 16
 Name: AnnounceFlags
 Type: REG_DWORD
 Data: 0xa

Value 17
 Name: MaxAllowedPhaseOffset
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: ServiceMain
 Type: REG_SZ
 Data: SvchostEntry_W32Time

Value 1
 Name: ServiceDll
 Type: REG_EXPAND_SZ
 Data: C:\WINDOWS\system32\w32time.dll

Value 2
 Name: NtpServer
 Type: REG_SZ
 Data: time.windows.com,0x1

Value 3
 Name: Type
 Type: REG_SZ
 Data: NTP

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:36 PM

Value 0
 Name: Security
 Type: REG_BINARY

```

Data:
00000000 01 00 14 80 a8 00 00 00 - b4 00 00 00 14
00 00 00 .....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 y.....
00000030 02 00 78 00 05 00 00 00 - 00 00 14 00 8d
00 02 00 .x.....
00000040 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 y.....
00000060 20 02 00 00 00 00 18 00 - 8d 00 02 00 01
02 00 00 .....
00000070 00 00 00 05 20 00 00 00 - 23 02 00 00 00
00 14 00 ....#.
00000080 9d 00 00 00 01 01 00 00 - 00 00 00 05 04
00 00 00 .....
00000090 00 00 18 00 9d 00 00 00 - 01 02 00 00 00
00 00 05 .....
000000a0 20 00 00 00 21 02 00 00 - 01 01 00 00 00
00 00 05 .!.....
000000b0 12 00 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 .....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W32Time\TimeProviders
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W32Time\TimeProviders\NtpClient
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:49 PM

```

```

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: InputProvider
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: AllowNonstandardModeCombinations
Type: REG_DWORD
Data: 0x1

```

```

Value 3
Name: CrossSiteSyncFlags
Type: REG_DWORD
Data: 0x2

```

```

Value 4
Name: ResolvePeerBackoffMinutes
Type: REG_DWORD
Data: 0xf

```

```

Value 5
Name: ResolvePeerBackoffMaxTimes
Type: REG_DWORD
Data: 0x7

```

```

Value 6
Name: CompatibilityFlags
Type: REG_DWORD
Data: 0x80000000

```

```

Value 7
Name: EventLogFlags
Type: REG_DWORD
Data: 0x1

```

```

Value 8
Name: LargeSampleSkew
Type: REG_DWORD
Data: 0x3

```

```

Value 9
Name: DllName
Type: REG_SZ
Data: C:\WINDOWS\system32\w32time.dll

```

```

Value 10
Name: SpecialPollTimeRemaining
Type: REG_MULTI_SZ
Data: time.windows.com,0

```

```

Value 11
Name: SpecialPollInterval
Type: REG_DWORD
Data: 0x93a80

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W32Time\TimeProviders\NtpServer
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

```

```

Value 0
Name: InputProvider
Type: REG_DWORD
Data: 0

```

```

Value 1
Name: AllowNonstandardModeCombinations
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: DllName
Type: REG_SZ
Data: C:\WINDOWS\system32\w32time.dll

```

```

Value 3
Name: Enabled
Type: REG_DWORD
Data: 0

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W32Time\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

```

```

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_W32TIME\0000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Parameters\ADLaunch
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
W3SVC\Parameters\ADLaunch\AdvancedDataFactory
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W3SVC\Parameters\ADCLaunch\RDSServer.DataFactory
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Wanarp
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\wanarp.sys

Value 4
Name: DisplayName
Type: REG_SZ
Data: Remote Access IP ARP Driver

Value 5
Name: Description
Type: REG_SZ
Data: Remote Access IP ARP Driver

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Wanarp\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: Security
Type: REG_BINARY

00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 ý.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00 ..~.....ý...
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 ý.....

00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00ý...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Wanarp\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_WANARP\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WDICA
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM

Value 0
Name: ErrorControl
Type: REG_DWORD
Data: 0

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WebClient
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

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

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe

-k LocalService

Value 4
Name: DisplayName
Type: REG_SZ
Data: WebClient

Value 5
Name: Group
Type: REG_SZ
Data: NetworkProvider

Value 6
Name: DependOnService
Type: REG_MULTI_SZ
Data: MRxDAV

Value 7
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 8
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\LocalService

Value 9
Name: Description
Type: REG_SZ
Data: Enables Windows-based programs to create, access, and modify Internet-based files. If this service is stopped, these functions will not be available. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WebClient\NetworkProvider
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: Name
Type: REG_SZ
Data: Web Client Network

Value 1

Name: ProviderPath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\davclnt.dll

Value 2
Name: DeviceName
Type: REG_SZ
Data: \Device\WebDavRedirector

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WebClient\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\webclnt.dll

Value 1
Name: ServerNotFoundCacheLifeTimeInSec
Type: REG_DWORD
Data: 0x3c

Value 2
Name: AcceptOfficeAndTahoeServers
Type: REG_DWORD
Data: 0

Value 3
Name: SupportLocking
Type: REG_DWORD
Data: 0x1

Value 4
Name: ServiceDebug
Type: REG_DWORD
Data: 0

Value 5
Name: FileSizeLimitInBytes
Type: REG_DWORD
Data: 0x2faf080

Value 6
Name: FileAttributesLimitInBytes
Type: REG_DWORD
Data: 0xf4240

Value 7
Name: ClientDebug
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WebClient\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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\WebClient\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_WEBCLIENT\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinHttpAutoProxySvc
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Description
Type: REG_SZ
Data: Implements the Web Proxy Auto-Discovery (WPAD) protocol for Windows HTTP Services (WinHTTP). WPAD is a protocol to enable an HTTP client to automatically discover a proxy configuration. If this service is stopped or disabled, the WPAD protocol will be executed within the HTTP client's process instead of an external

service process; there would be no loss of functionality as a result.

Value 1
Name: DependOnService
Type: REG_MULTI_SZ
Data: Dhcp

Value 2
Name: DisplayName
Type: REG_SZ
Data: WinHTTP Web Proxy Auto-Discovery
Service

Value 3
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\svchost.exe
-k LocalService

Value 5
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\LocalService

Value 6
Name: Start
Type: REG_DWORD
Data: 0x3

Value 7
Name: Type
Type: REG_DWORD
Data: 0x20

Value 8
Name: FailureActions
Type: REG_BINARY
Data:
00000000 00 5c 26 05 00 00 00 00 - 00 00 00 00 01
00 00 00 .\&.....
57 00 44 00 01 00 00 00 - 00 00 00 00
W.D.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinHttpAutoProxySvc\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: winhttp.dll

Value 1
Name: ServiceManifest
Type: REG_EXPAND_SZ

Data: %SystemRoot%\System32\whttpsvc.man
 Value 2
 Name: ServiceMain
 Type: REG_SZ
 Data: WinHttpAutoProxySvcMain

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinHttpAutoProxySvc\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_WINHTTPAUTOPROXYSVC\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\winmgmt
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x20

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x2

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0

Value 3
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: %systemroot%\system32\svchost.exe

-k netsvcs

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Windows Management Instrumentation

Value 5
 Name: DependOnService

Type: REG_MULTI_SZ
 Data: RPCSS
 Eventlog

Value 6
 Name: DependOnGroup
 Type: REG_MULTI_SZ
 Data:

Value 7
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 8
 Name: FailureActions
 Type: REG_BINARY
 Data:

00000000 80 51 01 00 00 00 00 00 - 00 00 00 00 02
 00 00 00 .Q.....
 00000010 20 54 72 61 01 00 00 00 - 60 ea 00 00 01
 00 00 00 Tra....ê.....
 60 ea 00 00
 `ê..

Value 9
 Name: Description
 Type: REG_SZ
 Data: Provides a common interface and object model to access management information about operating system, devices, applications and services. If this service is stopped, most Windows-based software will not function properly. If this service is disabled, any services that explicitly depend on it will fail to start.

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\winmgmt\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:33 PM

Value 0
 Name: ServiceDll
 Type: REG_EXPAND_SZ
 Data: %SystemRoot%\system32\wbem\WMIsvcs.dll

Value 1
 Name: ServiceMain
 Type: REG_SZ
 Data: ServiceMain

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\winmgmt\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:33 PM

Value 0
 Name: Security
 Type: REG_BINARY
 Data:

00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
 00 00 00
 00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
 80 14 00 0.....
 00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
 00 00 00 ý.....
 00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
 01 02 00 ..`.....ý...
 00000040 01 01 00 00 00 00 00 05 - 12 00 00 00 00
 00 18 00
 00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
 00 00 00 ý.....
 00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
 01 00 00
 00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
 01 02 00ý...
 00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
 02 00 00#...
 00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
 01 00 00
 00 00 00 05 12 00 00 00 -

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\winmgmt\Enum
 Class Name: <NO CLASS>
 Last Write Time: 10/13/2004 - 2:51 PM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\LEGACY_WINMGMT\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Winsock
 Class Name: <NO CLASS>
 Last Write Time: 1/15/2004 - 9:32 PM

Value 0
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0x3

Value 2
 Name: Type
 Type: REG_DWORD

```

Data: 0x4

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Winsock\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Transports
Type: REG_MULTI_SZ
Data: Gpc
      Tcpip
      NetBIOS

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Winsock\Setup Migration
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM
Value 0
Name: Setup Version
Type: REG_DWORD
Data: 0x1009

Value 1
Name: Provider List
Type: REG_MULTI_SZ
Data: Gpc
      Tcpip
      NetBIOS

Value 2
Name: Known Static Providers
Type: REG_MULTI_SZ
Data: Tcpip
      NwlnkIpx
      NwlnkSpX
      AppleTalk
      IsoTp
      Gpc

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Winsock\Setup Migration\Providers
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Winsock\Setup Migration\Providers\Gpc
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: WinSock 2.0 Provider ID
Type: REG_BINARY
Data: e0 a9 60 9d 7a 33 d0 11 - bd 88 00 00 c0
      82 e6 9a a0 z3B.%.A.a.

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Winsock\Setup Migration\Providers\NetBIOS
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: WinSock 1.1 Provider Data
Type: REG_BINARY
Data:
00000000 0e 10 00 00 11 00 00 00 - 14 00 00 00 14
00 00 00 .....
00000010 05 00 00 00 00 00 00 80 - 00 fa 00 00 3a
04 00 00 .....ú.....
00000020 09 12 00 00 11 00 00 00 - 14 00 00 00 14
00 00 00 .....
00000030 02 00 00 00 00 00 00 80 - 00 fa 00 00 c4
03 00 00 .....ú.Ä...
00000040 0e 10 00 00 11 00 00 00 - 14 00 00 00 14
00 00 00 .....
00000050 05 00 00 00 fd ff ff ff - 00 fa 00 00 4e
03 00 00 ...ýýýý.ú.N...
00000060 09 12 00 00 11 00 00 00 - 14 00 00 00 14
00 00 00 .....
00000070 02 00 00 00 fd ff ff ff - 00 fa 00 00 d8
02 00 00 ...ýýýý.ú.Ø...
00000080 0e 10 00 00 11 00 00 00 - 14 00 00 00 14
00 00 00 .....
00000090 05 00 00 00 ff ff ff ff - 00 fa 00 00 62
02 00 00 ...ýýýý.ú.b...
000000a0 09 12 00 00 11 00 00 00 - 14 00 00 00 14
00 00 00 .....
000000b0 02 00 00 00 ff ff ff ff - 00 fa 00 00 ec
01 00 00 ...ýýýý.ú.i...
000000c0 0e 10 00 00 11 00 00 00 - 14 00 00 00 14
00 00 00 .....
000000d0 05 00 00 00 fe ff ff ff - 00 fa 00 00 76
01 00 00 ...þýýý.ú.v...
000000e0 09 12 00 00 11 00 00 00 - 14 00 00 00 14
00 00 00 .....
000000f0 02 00 00 00 fe ff ff ff - 00 fa 00 00 00
01 00 00 ...þýýý.ú.....
00000100 5c 00 44 00 65 00 76 00 - 69 00 63 00 65
00 5c 00 \.D.e.v.i.c.e.\.
00000110 4e 00 65 00 74 00 42 00 - 54 00 5f 00 54
00 63 00 N.e.t.B.T._.T.c.
00000120 70 00 69 00 70 00 5f 00 - 7b 00 39 00 43
00 34 00 p.i.p._.{.C.9.
00000130 37 00 43 00 41 00 45 00 - 35 00 2d 00 39
00 37 00 7.C.A.E.5.-.9.7.
00000140 39 00 39 00 2d 00 34 00 - 45 00 31 00 45
00 2d 00 9.9.-.4.E.1.E.-.
00000150 41 00 39 00 32 00 45 00 - 2d 00 34 00 44
00 33 00 A.9.2.E.-.4.D.3.
00000160 44 00 32 00 36 00 34 00 - 34 00 36 00 35
00 38 00 D.2.6.4.4.6.5.8.
00000170 45 00 7d 00 00 00 5c 00 - 44 00 65 00 76
00 69 00 E.}....\D.e.v.i.
00000180 63 00 65 00 5c 00 4e 00 - 65 00 74 00 42
00 54 00 c.e.\.N.e.t.B.T.
00000190 5f 00 54 00 63 00 70 00 - 69 00 70 00 5f
00 7b 00 _T.c.p.i.p._.{.

```

```

000001a0 39 00 43 00 34 00 37 00 - 43 00 41 00 45
00 35 00 9.C.4.7.C.A.E.5.
000001b0 2d 00 39 00 37 00 39 00 - 39 00 2d 00 34
00 45 00 -.9.7.9.9.-.4.E.
000001c0 31 00 45 00 2d 00 41 00 - 39 00 32 00 45
00 2d 00 1.E.-.A.9.2.E.-.
000001d0 34 00 44 00 33 00 44 00 - 32 00 36 00 34
00 34 00 4.D.3.D.2.6.4.4.
000001e0 36 00 35 00 38 00 45 00 - 7d 00 00 00 5c
00 44 00 6.5.8.E.}....\D.
000001f0 65 00 76 00 69 00 63 00 - 65 00 5c 00 4e
00 65 00 e.v.i.c.e.\.N.e.
00000200 74 00 42 00 54 00 5f 00 - 54 00 63 00 70
00 69 00 t.B.T._.T.c.p.i.
00000210 70 00 5f 00 7b 00 43 00 - 39 00 41 00 41
00 44 00 p._.{.C.9.A.A.D.
00000220 45 00 44 00 46 00 2d 00 - 36 00 42 00 36
00 35 00 E.D.F.-.6.B.6.5.
00000230 2d 00 34 00 44 00 39 00 - 32 00 2d 00 41
00 34 00 -.4.D.9.2.-.A.4.
00000240 44 00 36 00 2d 00 44 00 - 39 00 46 00 38
00 44 00 D.6.-.D.9.F.8.D.
00000250 36 00 45 00 41 00 41 00 - 34 00 45 00 38
00 7d 00 6.E.A.A.4.E.8.}.
00000260 00 00 5c 00 44 00 65 00 - 76 00 69 00 63
00 65 00 \.D.e.v.i.c.e.\.
00000270 5c 00 4e 00 65 00 74 00 - 42 00 54 00 5f
00 54 00 \.N.e.t.B.T._.T.
00000280 63 00 70 00 69 00 70 00 - 5f 00 7b 00 43
00 39 00 c.p.i.p._.{.C.9.
00000290 41 00 41 00 44 00 45 00 - 44 00 46 00 2d
00 36 00 A.A.D.E.D.F.-.6.
000002a0 42 00 36 00 35 00 2d 00 - 34 00 44 00 39
00 32 00 B.6.5.-.4.D.9.2.
000002b0 2d 00 41 00 34 00 44 00 - 36 00 2d 00 44
00 39 00 -.A.4.D.6.-.D.9.
000002c0 46 00 38 00 44 00 36 00 - 45 00 41 00 41
00 34 00 F.8.D.6.E.A.A.4.
000002d0 45 00 38 00 7d 00 00 00 - 5c 00 44 00 65
00 76 00 E.8.}....\D.e.v.
000002e0 69 00 63 00 65 00 5c 00 - 4e 00 65 00 74
00 42 00 i.c.e.\.N.e.t.B.
000002f0 54 00 5f 00 54 00 63 00 - 70 00 69 00 70
00 5f 00 T._.T.c.p.i.p._.
00000300 7b 00 34 00 33 00 34 00 - 39 00 45 00 38
00 35 00 {.4.3.4.9.E.8.5.
00000310 32 00 2d 00 41 00 31 00 - 34 00 45 00 2d
00 34 00 2.-.A.1.4.E.-.4.
00000320 37 00 38 00 37 00 2d 00 - 39 00 45 00 31
00 41 00 7.8.7.-.9.E.1.A.
00000330 2d 00 34 00 33 00 31 00 - 32 00 38 00 37
00 45 00 -.4.3.1.2.8.7.E.
00000340 33 00 38 00 43 00 30 00 - 32 00 7d 00 00
00 5c 00 3.8.C.0.2.}....\
00000350 44 00 65 00 76 00 69 00 - 63 00 65 00 5c
00 4e 00 D.e.v.i.c.e.\.N.
00000360 65 00 74 00 42 00 54 00 - 5f 00 54 00 63
00 70 00 e.t.B.T._.T.c.p.
00000370 69 00 70 00 5f 00 7b 00 - 34 00 33 00 34
00 39 00 i.p._.{.4.3.4.9.
00000380 45 00 38 00 35 00 32 00 - 2d 00 41 00 31
00 34 00 E.8.5.2.-.A.1.4.

```

```

00000390 45 00 2d 00 34 00 37 00 - 38 00 37 00 2d
00 39 00 E.-.4.7.8.7.-.9.
000003a0 45 00 31 00 41 00 2d 00 - 34 00 33 00 31
00 32 00 E.1.A.-.4.3.1.2.
000003b0 38 00 37 00 45 00 33 00 - 38 00 43 00 30
00 32 00 8.7.E.3.8.C.0.2.
000003c0 7d 00 00 00 5c 00 44 00 - 65 00 76 00 69
00 63 00 }...\.D.e.v.i.c.
000003d0 65 00 5c 00 4e 00 65 00 - 74 00 42 00 54
00 5f 00 e.\.N.e.t.B.T._.
000003e0 54 00 63 00 70 00 69 00 - 70 00 5f 00 7b
00 43 00 T.c.p.i.p._.{.C.
000003f0 45 00 37 00 41 00 33 00 - 32 00 35 00 34
00 2d 00 E.7.A.3.2.5.4.-.
00000400 45 00 43 00 39 00 39 00 - 2d 00 34 00 33
00 33 00 E.C.9.9.-.4.3.3.
00000410 38 00 2d 00 42 00 34 00 - 30 00 37 00 2d
00 37 00 8.-.B.4.0.7.-.7.
00000420 34 00 36 00 35 00 37 00 - 33 00 34 00 45
00 35 00 4.6.5.7.3.4.E.5.
00000430 30 00 38 00 32 00 7d 00 - 00 00 5c 00 44
00 65 00 0.8.2.)...\.D.e.
00000440 76 00 69 00 63 00 65 00 - 5c 00 4e 00 65
00 74 00 v.i.c.e.\.N.e.t.
00000450 42 00 54 00 5f 00 54 00 - 63 00 70 00 69
00 70 00 B.T._.T.c.p.i.p.
00000460 5f 00 7b 00 43 00 45 00 - 37 00 41 00 33
00 32 00 _.{.C.E.7.A.3.2.
00000470 35 00 34 00 2d 00 45 00 - 43 00 39 00 39
00 2d 00 5.4.-.E.C.9.9.-.
00000480 34 00 33 00 33 00 38 00 - 2d 00 42 00 34
00 30 00 4.3.3.8.-.B.4.0.
00000490 37 00 2d 00 37 00 34 00 - 36 00 35 00 37
00 33 00 7.-.7.4.6.5.7.3.
000004a0 34 00 45 00 35 00 30 00 - 38 00 32 00 7d
00 00 00 4.E.5.0.8.2.}...

```

```

Value 1
Name: WinSock 2.0 Provider ID
Type: REG_BINARY
Data:
00000000 30 18 5f 8d 73 c2 cf 11 - 95 c8 00 80 5f
48 a1 92 0_.sÄI..È..H;.

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Winsock\Setup Migration\Providers\Tcpip
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: WinSock 2.0 Provider ID
Type: REG_BINARY
Data:
00000000 a0 1a 0f e7 8b ab cf 11 - 8c a3 00 80 5f
48 a1 92 ..ç.«I..f..H;.

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Winsock\Setup Migration\Well Known Guids
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: IsoTp
Type: REG_BINARY
Data:
00000000 b0 cb e4 89 c1 b9 cf 11 - 95 c8 00 80 5f
48 a1 92 °Èä.Á'í..È..H;.

```

```

Value 1
Name: McsXns
Type: REG_BINARY
Data:
00000000 b1 cb e4 89 c1 b9 cf 11 - 95 c8 00 80 5f
48 a1 92 ±Èä.Á'í..È..H;.

```

```

Value 2
Name: AppleTalk
Type: REG_BINARY
Data:
00000000 a0 17 3b 2c df c6 cf 11 - 95 c8 00 80 5f
48 a1 92 .; ,ßÏ..È..H;.

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: WinSock_Registry_Version
Type: REG_SZ
Data: 2.0

```

```

Value 1
Name: Current_Protocol_Catalog
Type: REG_SZ
Data: Protocol_Catalog9

```

```

Value 2
Name: Current_NameSpace_Catalog
Type: REG_SZ
Data: NameSpace_Catalog5

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\NameSpace_Catalog5
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0

```

```

Name: Num_Catalog_Entries
Type: REG_DWORD
Data: 0x3

```

```

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

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\NameSpace_Catalog5\Catalog_Entrie
s
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\NameSpace_Catalog5\Catalog_Entrie
s\00000000000001
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: LibraryPath
Type: REG_SZ
Data: %SystemRoot%\System32\mswsock.dll

```

```

Value 1
Name: DisplayString
Type: REG_SZ
Data: Tcpip

```

```

Value 2
Name: ProviderId
Type: REG_BINARY
Data:
00000000 40 9d 05 22 9e 7e cf 11 - ae 5a 00 aa 00
a7 11 2b @..".-I.@Z.*.$.+

```

```

Value 3
Name: SupportedNameSpace
Type: REG_DWORD
Data: 0xc

```

```

Value 4
Name: Enabled
Type: REG_DWORD
Data: 0x1

```

```

Value 5
Name: Version
Type: REG_DWORD
Data: 0

```

```

Value 6
Name: StoresServiceClassInfo
Type: REG_DWORD
Data: 0

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\NameSpace_Catalog5\Catalog_Entrie
s\0000000000002
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: LibraryPath
Type: REG_SZ
Data: %SystemRoot%\System32\winrnr.dll

Value 1
Name: DisplayString
Type: REG_SZ
Data: NTDS

Value 2
Name: ProviderId
Type: REG_BINARY
Data: 00000000 ee 37 26 3b 80 e5 cf 11 - a5 55 00 c0 4f
d8 d4 ac î7&;.âi.YU.À000-

Value 3
Name: SupportedNameSpace
Type: REG_DWORD
Data: 0x20

Value 4
Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 5
Name: Version
Type: REG_DWORD
Data: 0

Value 6
Name: StoresServiceClassInfo
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\NameSpace_Catalog5\Catalog_Entrie
s\0000000000003
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: LibraryPath
Type: REG_SZ
Data: %SystemRoot%\System32\mswsock.dll

Value 1
Name: DisplayString
Type: REG_SZ
Data: Network Location Awareness (NLA)

Value 2

```

```

Name: ProviderId
Type: REG_BINARY
Data: 00000000 3a 24 42 66 a8 3b a6 4a - ba a5 2e 0b d7
1f dd 83 :$Bf";|J*¥.x.Ý.

Value 3
Name: SupportedNameSpace
Type: REG_DWORD
Data: 0xf

Value 4
Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 5
Name: Version
Type: REG_DWORD
Data: 0

Value 6
Name: StoresServiceClassInfo
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: Num_Catalog_Entries
Type: REG_DWORD
Data: 0xd

Value 1
Name: Next_Catalog_Entry_ID
Type: REG_DWORD
Data: 0x40e

Value 2
Name: Serial_Access_Num
Type: REG_DWORD
Data: 0xd

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\0000000000001
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem

```

```

Type: REG_BINARY
Data:
00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\mswsock.dll
00000020 6c 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 66 00 02 00 - 00 00 00 00 00
00 00 00 ...f.....
00000110 00 00 00 00 08 00 00 00 - a0 1a 0f e7 8b
ab cf 11 .....ç.«İ.
00000120 8c a3 00 80 5f 48 a1 92 - eb 03 00 00 01
00 00 00 ...E..Hj.è.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000150 02 00 00 00 10 00 00 00 - 10 00 00 00 01
00 00 00 .....
00000160 06 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000170 00 00 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 .....M.S.A.F.
00000180 44 00 20 00 54 00 63 00 - 70 00 69 00 70
00 20 00 D..T.c.p.i.p..
00000190 5b 00 54 00 43 00 50 00 - 2f 00 49 00 50
00 5d 00 [T.C.P./I.P.].
000001a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....

```

```

000001e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000200 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000210 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000220 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\000000000002
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY

```

```

Data:
00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\mswsock.dll
00000020 6c 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 09 06 02 00 - 00 00 00 00 00
00 00 00 .....
00000110 00 00 00 00 08 00 00 00 - a0 1a 0f e7 8b
ab cf 11 .....ç.İ.
00000120 8c a3 00 80 5f 48 a1 92 - ec 03 00 00 01
00 00 00 .f..Hi.i.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000150 02 00 00 00 10 00 00 00 - 10 00 00 00 02
00 00 00 .....
00000160 11 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000170 bb ff 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 »ÿ.....M.S.A.F.
00000180 44 00 20 00 54 00 63 00 - 70 00 69 00 70
00 20 00 D..T.c.p.i.p..
00000190 5b 00 55 00 44 00 50 00 - 2f 00 49 00 50
00 5d 00 [.U.D.P./I.P.].
000001a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....

```

```

000001f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000200 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000210 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000220 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\000000000003
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\msock.dl
00000020 6c 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 09 06 02 00 - 00 00 00 00 00
00 00 00 .....
00000110 00 00 00 00 0c 00 00 00 - a0 1a 0f e7 8b
ab cf 11 .....ç.«İ.
00000120 8c a3 00 80 5f 48 a1 92 - ed 03 00 00 01
00 00 00 .f..Hj.i.....
00000130 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000150 02 00 00 00 10 00 00 - 10 00 00 00 03
00 00 00 .....
00000160 00 00 00 00 ff 00 00 00 - 00 00 00 00 00
00 00 00 ...ÿ.....
00000170 bb ff 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 »ÿ.....M.S.A.F.
00000180 44 00 20 00 54 00 63 00 - 70 00 69 00 70
00 20 00 D..T.c.p.i.p..
00000190 5b 00 52 00 41 00 57 00 - 2f 00 49 00 50
00 5d 00 [.R.A.W./I.P.].
000001a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....

```

```

000001f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000200 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000210 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000220 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000230 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000240 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000250 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000260 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000270 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000280 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000290 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000300 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000310 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000320 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000330 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000340 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000350 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000360 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries\000000000004
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\msock.dl
00000020 6c 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 09 26 02 00 - 00 00 00 00 00
00 00 00 .....
00000110 00 00 00 00 08 00 00 00 - e0 a9 60 9d 7a
33 d0 11 .....ã®.z3Đ.
00000120 bd 88 00 00 c0 82 e6 9a - e9 03 00 00 01
00 00 00 ¼..Ä.æ.é.....
00000130 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 - 00 00 00 00 06
00 00 00 .....
00000150 02 00 00 00 10 00 00 - 10 00 00 00 02
00 00 00 .....
00000160 11 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000170 bb ff 00 00 00 00 00 - 52 00 53 00 56
00 50 00 »ÿ.....R.S.V.P.
00000180 20 00 55 00 44 00 50 00 - 20 00 53 00 65
00 72 00 .U.D.P. .S.e.r.
00000190 76 00 69 00 63 00 65 00 - 20 00 50 00 72
00 6f 00 v.i.c.e. .P.r.o.
000001a0 76 00 69 00 64 00 65 00 - 72 00 00 00 00
00 00 00 v.i.d.e.r.....
000001b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....

```

```

000001f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000200 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000210 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000220 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\000000000005
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\mswsock.dll
00000020 6c 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 66 20 02 00 - 00 00 00 00 00
00 00 00 .....f.....
00000110 00 00 00 00 08 00 00 00 - e0 a9 60 9d 7a
33 d0 11 .....ã®.z3Ð.
00000120 bd 88 00 00 c0 82 e6 9a - ea 03 00 00 01
00 00 00 ¼...Ã.æ.ê.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 06
00 00 00 .....
00000150 02 00 00 00 10 00 00 00 - 10 00 00 00 01
00 00 00 .....
00000160 06 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000170 00 00 00 00 00 00 00 00 - 52 00 53 00 56
00 50 00 .....R.S.V.P.
00000180 20 00 54 00 43 00 50 00 - 20 00 53 00 65
00 72 00 .T.C.P. .S.e.r.
00000190 76 00 69 00 63 00 65 00 - 20 00 50 00 72
00 6f 00 v.i.c.e. .P.r.o.
000001a0 76 00 69 00 64 00 65 00 - 72 00 00 00 00
00 00 00 v.i.d.e.r.....
000001b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000001e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....

```

```

000001f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000200 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000210 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000220 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\000000000006
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\msock.dl
00000020 6c 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 0e 00 02 00 - 00 00 00 00 00
00 00 00 .....
00000110 00 00 00 00 08 00 00 00 - 30 18 5f 8d 73
c2 cf 11 .....0..sAI.
00000120 95 c8 00 80 5f 48 a1 92 - 06 04 00 00 01
00 00 00 .E..Hj;.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000150 11 00 00 00 14 00 00 00 - 14 00 00 00 05
00 00 00 .....
00000160 00 00 00 80 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000170 00 fa 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 .ú.....M.S.A.F.
00000180 44 00 20 00 4e 00 65 00 - 74 00 42 00 49
00 4f 00 D..N.e.t.B.I.O.
00000190 53 00 20 00 5b 00 5c 00 - 44 00 65 00 76
00 69 00 S..[\.D.e.v.i.
000001a0 63 00 65 00 5c 00 4e 00 - 65 00 74 00 42
00 54 00 c.e.\.N.e.t.B.T.
000001b0 5f 00 54 00 63 00 70 00 - 69 00 70 00 5f
00 7b 00 _T.c.p.i.p._{.
000001c0 43 00 45 00 37 00 41 00 - 33 00 32 00 35
00 34 00 C.E.7.A.3.2.5.4.
000001d0 2d 00 45 00 43 00 39 00 - 39 00 2d 00 34
00 33 00 -.E.C.9.9.-.4.3.
000001e0 33 00 38 00 2d 00 42 00 - 34 00 30 00 37
00 2d 00 3.8.-.B.4.0.7.-.

```

```

000001f0 37 00 34 00 36 00 35 00 - 37 00 33 00 34
00 45 00 7.4.6.5.7.3.4.E.
00000200 35 00 30 00 38 00 32 00 - 7d 00 5d 00 20
00 53 00 5.0.8.2.}.}.S.
00000210 45 00 51 00 50 00 41 00 - 43 00 4b 00 45
00 54 00 E.Q.P.A.C.K.E.T.
00000220 20 00 30 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .0.....
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries\000000000007
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\msock.dl
00000020 6c 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 09 02 02 00 - 00 00 00 00 00
00 00 00 .....
00000110 00 00 00 00 08 00 00 00 - 30 18 5f 8d 73
c2 cf 11 .....0..sAI.
00000120 95 c8 00 80 5f 48 a1 92 - 07 04 00 00 01
00 00 00 .E..Hj;.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000150 11 00 00 00 14 00 00 00 - 14 00 00 00 02
00 00 00 .....
00000160 00 00 00 80 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000170 00 fa 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 .ú.....M.S.A.F.
00000180 44 00 20 00 4e 00 65 00 - 74 00 42 00 49
00 4f 00 D..N.e.t.B.I.O.
00000190 53 00 20 00 5b 00 5c 00 - 44 00 65 00 76
00 69 00 S..[\.D.e.v.i.
000001a0 63 00 65 00 5c 00 4e 00 - 65 00 74 00 42
00 54 00 c.e.\.N.e.t.B.T.
000001b0 5f 00 54 00 63 00 70 00 - 69 00 70 00 5f
00 7b 00 _T.c.p.i.p._{.
000001c0 43 00 45 00 37 00 41 00 - 33 00 32 00 35
00 34 00 C.E.7.A.3.2.5.4.
000001d0 2d 00 45 00 43 00 39 00 - 39 00 2d 00 34
00 33 00 -.E.C.9.9.-.4.3.
000001e0 33 00 38 00 2d 00 42 00 - 34 00 30 00 37
00 2d 00 3.8.-.B.4.0.7.-.

```



```

000001f0 37 00 34 00 36 00 35 00 - 37 00 33 00 34
00 45 00 7.4.6.5.7.3.4.E.
00000200 35 00 30 00 38 00 32 00 - 7d 00 5d 00 20
00 44 00 5.0.8.2.}.}.D.
00000210 41 00 54 00 41 00 47 00 - 52 00 41 00 4d
00 20 00 A.T.A.G.R.A.M.
00000220 30 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 0.
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00 00 00 00 00 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\000000000008
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\msock.dl
00000020 6c 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.
00000030 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000040 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000050 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000060 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000070 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000080 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000090 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000100 00 00 00 00 0e 00 02 00 - 00 00 00 00 00
00 00 00
00000110 00 00 00 00 00 00 00 00 - 30 18 5f 8d 73
c2 cf 11 .....0..sAI.
00000120 95 c8 00 80 5f 48 a1 92 - 08 04 00 00 01
00 00 00 .E..H;.
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00
00000150 11 00 00 00 14 00 00 00 - 14 00 00 00 05
00 00 00
00000160 fd ff ff ff 00 00 00 00 - 00 00 00 00 00
00 00 00 yyy.
00000170 00 fa 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 .u....M.S.A.F.
00000180 44 00 20 00 4e 00 65 00 - 74 00 42 00 49
00 4f 00 D..N.e.t.B.I.O.
00000190 53 00 20 00 5b 00 5c 00 - 44 00 65 00 76
00 69 00 S..[.\.D.e.v.i.
000001a0 63 00 65 00 5c 00 4e 00 - 65 00 74 00 42
00 54 00 c.e.\.N.e.t.B.T.
000001b0 5f 00 54 00 63 00 70 00 - 69 00 70 00 5f
00 7b 00 .T.c.p.i.p._{.
000001c0 34 00 33 00 34 00 39 00 - 45 00 38 00 35
00 32 00 4.3.4.9.E.8.5.2.
000001d0 2d 00 41 00 31 00 34 00 - 45 00 2d 00 34
00 37 00 -.A.1.4.E.-.4.7.
000001e0 38 00 37 00 2d 00 39 00 - 45 00 31 00 41
00 2d 00 8.7.-.9.E.1.A.-.

```

```

000001f0 34 00 33 00 31 00 32 00 - 38 00 37 00 45
00 33 00 4.3.1.2.8.7.E.3.
00000200 38 00 43 00 30 00 32 00 - 7d 00 5d 00 20
00 53 00 8.C.0.2.}.}.S.
00000210 45 00 51 00 50 00 41 00 - 43 00 4b 00 45
00 54 00 E.Q.P.A.C.K.E.T.
00000220 20 00 33 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .3.
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00 00 00 00 00 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\000000000009
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\msock.dl
00000020 6c 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 09 02 02 00 - 00 00 00 00 00
00 00 00 .....
00000110 00 00 00 00 00 00 00 00 - 30 18 5f 8d 73
c2 cf 11 .....0..sAI.
00000120 95 c8 00 80 5f 48 a1 92 - 09 04 00 00 01
00 00 00 .E..Hj;.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000150 11 00 00 00 14 00 00 00 - 14 00 00 00 02
00 00 00 .....
00000160 fd ff ff ff 00 00 00 00 - 00 00 00 00 00
00 00 00 yyyy.....
00000170 00 fa 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 .u.....M.S.A.F.
00000180 44 00 20 00 4e 00 65 00 - 74 00 42 00 49
00 4f 00 D..N.e.t.B.I.O.
00000190 53 00 20 00 5b 00 5c 00 - 44 00 65 00 76
00 69 00 S.[.\.D.e.v.i.
000001a0 63 00 65 00 5c 00 4e 00 - 65 00 74 00 42
00 54 00 c.e.\.N.e.t.B.T.
000001b0 5f 00 54 00 63 00 70 00 - 69 00 70 00 5f
00 7b 00 .T.c.p.i.p._{.
000001c0 34 00 33 00 34 00 39 00 - 45 00 38 00 35
00 32 00 4.3.4.9.E.8.5.2.
000001d0 2d 00 41 00 31 00 34 00 - 45 00 2d 00 34
00 37 00 -.A.1.4.E.-.4.7.
000001e0 38 00 37 00 2d 00 39 00 - 45 00 31 00 41
00 2d 00 8.7.-.9.E.1.A.-.

```

```

000001f0 34 00 33 00 31 00 32 00 - 38 00 37 00 45
00 33 00 4.3.1.2.8.7.E.3.
00000200 38 00 43 00 30 00 32 00 - 7d 00 5d 00 20
00 44 00 8.C.0.2.}.}.D.
00000210 41 00 54 00 41 00 47 00 - 52 00 41 00 4d
00 20 00 A.T.A.G.R.A.M.
00000220 33 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 3.....
00000230 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000240 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000250 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000260 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000270 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000280 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000290 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000300 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000310 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000320 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000330 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000340 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000350 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000360 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries\000000000010
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\msock.dl
00000020 6c 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 0e 00 02 00 - 00 00 00 00 00
00 00 00 .....
00000110 00 00 00 00 00 00 00 00 - 30 18 5f 8d 73
c2 cf 11 .....0..sAI.
00000120 95 c8 00 80 5f 48 a1 92 - 0a 04 00 00 01
00 00 00 .E..Hj;.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000150 11 00 00 00 14 00 00 00 - 14 00 00 00 05
00 00 00 .....
00000160 ff ff ff ff 00 00 00 00 - 00 00 00 00 00
00 00 00 yyyy.....
00000170 00 fa 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 .u.....M.S.A.F.
00000180 44 00 20 00 4e 00 65 00 - 74 00 42 00 49
00 4f 00 D..N.e.t.B.I.O.
00000190 53 00 20 00 5b 00 5c 00 - 44 00 65 00 76
00 69 00 S.[.\.D.e.v.i.
000001a0 63 00 65 00 5c 00 4e 00 - 65 00 74 00 42
00 54 00 c.e.\.N.e.t.B.T.
000001b0 5f 00 54 00 63 00 70 00 - 69 00 70 00 5f
00 7b 00 .T.c.p.i.p._{.
000001c0 43 00 39 00 41 00 41 00 - 44 00 45 00 44
00 46 00 C.9.A.A.D.E.D.F.
000001d0 2d 00 36 00 42 00 36 00 - 35 00 2d 00 34
00 44 00 -.6.B.6.5.-.4.D.
000001e0 39 00 32 00 2d 00 41 00 - 34 00 44 00 36
00 2d 00 9.2.-.A.4.D.6.-.

```

000001f0 44 00 39 00 46 00 38 00 - 44 00 36 00 45
00 41 00 D.9.F.8.D.6.E.A.
00000200 41 00 34 00 45 00 38 00 - 7d 00 5d 00 20
00 53 00 A.4.E.8.}.}.S.
00000210 45 00 51 00 50 00 41 00 - 43 00 4b 00 45
00 54 00 E.Q.P.A.C.K.E.T.
00000220 20 00 31 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .1.....
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00 00 00 00 00 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\000000000011
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\mswsock.dll
00000020 6c 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000040 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000050 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000060 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000070 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000080 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000090 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000000f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000100 00 00 00 00 09 02 02 00 - 00 00 00 00 00
00 00 00
00000110 00 00 00 00 00 00 00 00 - 30 18 5f 8d 73
c2 cf 110..sÄI.
00000120 95 c8 00 80 5f 48 a1 92 - 0b 04 00 00 01
00 00 00 .È..Hj.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00
00000150 11 00 00 00 14 00 00 00 - 14 00 00 00 02
00 00 00
00000160 ff ff ff ff 00 00 00 00 - 00 00 00 00 00
00 00 00 Yÿÿÿ.....
00000170 00 fa 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 .ú.....M.S.A.F.
00000180 44 00 20 00 4e 00 65 00 - 74 00 42 00 49
00 4f 00 D..N.e.t.B.I.O.
00000190 53 00 20 00 5b 00 5c 00 - 44 00 65 00 76
00 69 00 S..[\.D.e.v.i.
000001a0 63 00 65 00 5c 00 4e 00 - 65 00 74 00 42
00 54 00 c.e.\.N.e.t.B.T.
000001b0 5f 00 54 00 63 00 70 00 - 69 00 70 00 5f
00 7b 00 .T.c.p.i.p._{.
000001c0 43 00 39 00 41 00 41 00 - 44 00 45 00 44
00 46 00 C.9.A.A.D.E.D.F.
000001d0 2d 00 36 00 42 00 36 00 - 35 00 2d 00 34
00 44 00 -.6.B.6.5.-.4.D.
000001e0 39 00 32 00 2d 00 41 00 - 34 00 44 00 36
00 2d 00 9.2.-.A.4.D.6.-.

000001f0 44 00 39 00 46 00 38 00 - 44 00 36 00 45
00 41 00 D.9.F.8.D.6.E.A.
00000200 41 00 34 00 45 00 38 00 - 7d 00 5d 00 20
00 44 00 A.4.E.8.}.}.D.
00000210 41 00 54 00 41 00 47 00 - 52 00 41 00 4d
00 20 00 A.T.A.G.R.A.M.
00000220 31 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
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000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00
00 00 00 00 00 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\000000000012
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\msock.dl
00000020 6c 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 0e 00 02 00 - 00 00 00 00 00
00 00 00 .....
00000110 00 00 00 00 00 00 00 00 - 30 18 5f 8d 73
c2 cf 11 .....0..sAI.
00000120 95 c8 00 80 5f 48 a1 92 - 0c 04 00 00 01
00 00 00 .E..Hj.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000150 11 00 00 00 14 00 00 00 - 14 00 00 00 05
00 00 00 .....
00000160 fe ff ff ff 00 00 00 00 - 00 00 00 00 00
00 00 00 byyy.....
00000170 00 fa 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 .u.....M.S.A.F.
00000180 44 00 20 00 4e 00 65 00 - 74 00 42 00 49
00 4f 00 D..N.e.t.B.I.O.
00000190 53 00 20 00 5b 00 5c 00 - 44 00 65 00 76
00 69 00 S..[.\.D.e.v.i.
000001a0 63 00 65 00 5c 00 4e 00 - 65 00 74 00 42
00 54 00 c.e.\.N.e.t.B.T.
000001b0 5f 00 54 00 63 00 70 00 - 69 00 70 00 5f
00 7b 00 .T.c.p.i.p._{.
000001c0 39 00 43 00 34 00 37 00 - 43 00 41 00 45
00 35 00 9.C.4.7.C.A.E.5.
000001d0 2d 00 39 00 37 00 39 00 - 39 00 2d 00 34
00 45 00 -.9.7.9.9.-.4.E.
000001e0 31 00 45 00 2d 00 41 00 - 39 00 32 00 45
00 2d 00 1.E.-.A.9.2.E.-.

```

```

000001f0 34 00 44 00 33 00 44 00 - 32 00 36 00 34
00 34 00 4.D.3.D.2.6.4.4.
00000200 36 00 35 00 38 00 45 00 - 7d 00 5d 00 20
00 53 00 6.5.8.E.}.}.S.
00000210 45 00 51 00 50 00 41 00 - 43 00 4b 00 45
00 54 00 E.Q.P.A.C.K.E.T.
00000220 20 00 32 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .2.....
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinSock2\Parameters\Protocol_Catalog9\Catalog_Entries
\0000000000013
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM
Value 0
Name: PackedCatalogItem
Type: REG_BINARY
Data:

```

```

00000000 25 53 79 73 74 65 6d 52 - 6f 6f 74 25 5c
73 79 73 %SystemRoot%\sys
00000010 74 65 6d 33 32 5c 6d 73 - 77 73 6f 63 6b
2e 64 6c tem32\msock.dl
00000020 6c 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 1.....
00000030 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000040 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000050 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000060 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000070 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000080 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000090 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000000f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000100 00 00 00 00 09 02 02 00 - 00 00 00 00 00
00 00 00 .....
00000110 00 00 00 00 00 00 00 00 - 30 18 5f 8d 73
c2 cf 11 .....0..sAI.
00000120 95 c8 00 80 5f 48 a1 92 - 0d 04 00 00 01
00 00 00 .E..Hj.....
00000130 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000140 00 00 00 00 00 00 00 00 - 00 00 00 00 02
00 00 00 .....
00000150 11 00 00 00 14 00 00 00 - 14 00 00 00 02
00 00 00 .....
00000160 fe ff ff ff 00 00 00 00 - 00 00 00 00 00
00 00 00 byyy.....
00000170 00 fa 00 00 00 00 00 00 - 4d 00 53 00 41
00 46 00 .u.....M.S.A.F.
00000180 44 00 20 00 4e 00 65 00 - 74 00 42 00 49
00 4f 00 D..N.e.t.B.I.O.
00000190 53 00 20 00 5b 00 5c 00 - 44 00 65 00 76
00 69 00 S..[.\.D.e.v.i.
000001a0 63 00 65 00 5c 00 4e 00 - 65 00 74 00 42
00 54 00 c.e.\.N.e.t.B.T.
000001b0 5f 00 54 00 63 00 70 00 - 69 00 70 00 5f
00 7b 00 .T.c.p.i.p._{.
000001c0 39 00 43 00 34 00 37 00 - 43 00 41 00 45
00 35 00 9.C.4.7.C.A.E.5.
000001d0 2d 00 39 00 37 00 39 00 - 39 00 2d 00 34
00 45 00 -.9.7.9.9.-.4.E.
000001e0 31 00 45 00 2d 00 41 00 - 39 00 32 00 45
00 2d 00 1.E.-.A.9.2.E.-.

```

```

000001f0 34 00 44 00 33 00 44 00 - 32 00 36 00 34
00 34 00 4.D.3.D.2.6.4.4.
00000200 36 00 35 00 38 00 45 00 - 7d 00 5d 00 20
00 44 00 6.5.8.E.}.}.D.
00000210 41 00 54 00 41 00 47 00 - 52 00 41 00 4d
00 20 00 A.T.A.G.R.A.M. .
00000220 32 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 2.....
00000230 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000240 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000250 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000260 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000270 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000280 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000290 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002a0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002b0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002c0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002d0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002e0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
000002f0 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000300 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000310 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000320 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000330 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000340 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000350 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00000360 00 00 00 00 00 00 00 00 - 00 00 00 00 00
00 00 00 .....
00 00 00 00 00 00 00 00 -
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinTrust
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinTrust\SubjectPackages
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinTrust\SubjectPackages\MS Subjects 1
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: $DLL
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\MsSip1.dll

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinTrust\SubjectPackages\MS Subjects 2
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: $DLL
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\MsSip2.dll

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinTrust\SubjectPackages\MS Subjects 3
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: $DLL
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\MsSip3.dll

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinTrust\TrustProviders
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WinTrust\TrustProviders\Software Publisher
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: $DLL
Type: REG_EXPAND_SZ
Data: %SystemRoot%\system32\SoftPub.dll

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WLBS
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1

```

```

Value 1
Name: Start

```

```

Type: REG_DWORD
Data: 0x3

```

```

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

```

Value 3
Name: Tag
Type: REG_DWORD
Data: 0x7

```

```

Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\wlbs.sys

```

```

Value 5
Name: DisplayName
Type: REG_SZ
Data: Network Load Balancing

```

```

Value 6
Name: Group
Type: REG_SZ
Data: PNP_TDI

```

```

Value 7
Name: Description
Type: REG_SZ
Data: Network Load Balancing

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WLBS\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 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 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....

```

00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WmdmPmSN
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x20
Value 1
Name: Start
Type: REG_DWORD
Data: 0x3
Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k netsvcs
Value 4
Name: DisplayName
Type: REG_SZ
Data: Portable Media Serial Number
Service
Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem
Value 6
Name: Description
Type: REG_SZ
Data: Retrieves the serial number of any portable media player connected to this computer. If this service is stopped, protected content might not be down loaded to the device.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WmdmPmSN\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\mspmnsrv.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WmdmPmSN\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:36 PM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 a4 00 00 00 - b0 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 74 00 05 00 00 00 - 00 00 14 00 10
00 00 00 .t.....
00000040 01 01 00 00 00 00 05 - 04 00 00 00 00
00 14 00
00000050 fd 01 02 00 01 01 00 00 - 00 00 00 05 12
00 00 00 Ÿ.....
00000060 00 00 18 00 ff 01 0f 00 - 01 02 00 00 00
00 00 05 ...Ÿ.....
00000070 20 00 00 00 20 02 00 00 - 00 00 14 00 8d
01 02 00
00000080 01 01 00 00 00 00 05 - 0b 00 00 00 00
00 18 00
00000090 fd 01 02 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
000000a0 23 02 00 00 01 01 00 00 - 00 00 00 05 12
00 00 00 #.....
01 01 00 00 00 00 05 - 12 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Wmi
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: Description
Type: REG_SZ
Data: Monitors all drivers and event trace providers that are configured to publish Windows Management Instrumentation (WMI) or event trace information. If this service is disabled, any services that explicitly depend on it will fail to start.
Value 1
Name: DisplayName
Type: REG_SZ
Data: Windows Management Instrumentation
Driver Extensions
Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 3
Name: ImagePath

Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\svchost.exe
-k netsvcs
Value 4
Name: ObjectName
Type: REG_SZ
Data: LocalSystem
Value 5
Name: Start
Type: REG_DWORD
Data: 0x3
Value 6
Name: Type
Type: REG_DWORD
Data: 0x20

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Wmi\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\advapi32.dll
Value 1
Name: ServiceMain
Type: REG_SZ
Data: WdmWmiServiceMain

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
Wmi\Security
Class Name: <NO CLASS>
Last Write Time: 1/4/2004 - 1:14 AM
Value 0
Name: Security
Type: REG_BINARY
Data:
00000000 01 00 14 80 90 00 00 00 - 9c 00 00 00 14
00 00 00
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02
80 14 00 0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00
00 00 00 Ÿ.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00Ÿ...
00000040 01 01 00 00 00 00 05 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 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 00Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...

00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WmiApRpl
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WmiApRpl\Performance
Class Name: <NO CLASS>
Last Write Time: 9/16/2004 - 10:50 AM

Value 0
Name: Library
Type: REG_SZ
Data: C:\WINDOWS\system32\wbem\wmiaprp1.dll

Value 1
Name: Open
Type: REG_SZ
Data: WmiOpenPerfData

Value 2
Name: Collect
Type: REG_SZ
Data: WmiCollectPerfData

Value 3
Name: Close
Type: REG_SZ
Data: WmiClosePerfData

Value 4
Name: PerfIniFile
Type: REG_SZ
Data: WmiApRpl.ini

Value 5
Name: Last Counter
Type: REG_DWORD
Data: 0xdd8

Value 6
Name: Last Help
Type: REG_DWORD
Data: 0xdd9

Value 7
Name: First Counter
Type: REG_DWORD
Data: 0xdd4

Value 8
Name: First Help
Type: REG_DWORD
Data: 0xdd5

Value 9
Name: Object List
Type: REG_SZ
Data: 3540

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WmiApSrv
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x10

Value 1
Name: Start
Type: REG_DWORD
Data: 0x3

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\wbem\wmiapsrv.exe

Value 4
Name: DisplayName
Type: REG_SZ
Data: WMI Performance Adapter

Value 5
Name: DependOnService
Type: REG_MULTI_SZ
Data: RPCSS

Value 6
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 7
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 8
Name: Description
Type: REG_SZ
Data: Provides performance library information from Windows Management Instrumentation (WMI) providers to clients on the network. This service only runs when Performance Data Helper is activated.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WmiApSrv\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:33 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 00Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WmiApSrv\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_WMIAPSRV\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
wuauerv
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM

Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

```

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

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: %systemroot%\system32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Automatic Updates

Value 5
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 6
Name: Description
Type: REG_SZ
Data: Enables the download and
installation of critical Windows updates. If the
service is disabled, the operating system can be
manually updated at the Windows Update Web site.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
wuauerv\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:34 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: C:\WINDOWS\system32\wuauerv.dll

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
wuauerv\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:34 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 05 - 12 00 00 00 00
00 18 00 .....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 Ÿ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00 .....
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00 .....Ÿ...
00000080 01 02 00 00 00 00 05 - 20 00 00 00 23
02 00 00 .....#...
00000090 01 01 00 00 00 00 05 - 12 00 00 00 01
01 00 00 .....
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
wuauerv\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_WUAUSERV\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WZCSVC
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x20

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

Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ

```

```

Data: %SystemRoot%\System32\svchost.exe
-k netsvcs

Value 4
Name: DisplayName
Type: REG_SZ
Data: Wireless Configuration

Value 5
Name: Group
Type: REG_SZ
Data: TDI

Value 6
Name: DependOnService
Type: REG_MULTI_SZ
Data: RpcSs
Ndisuio

Value 7
Name: DependOnGroup
Type: REG_MULTI_SZ
Data:

Value 8
Name: ObjectName
Type: REG_SZ
Data: LocalSystem

Value 9
Name: Description
Type: REG_SZ
Data: Enables automatic configuration
for IEEE 802.11 adapters. If this service is stopped,
automatic configuration will be unavailable. If this
service is disabled, any services that explicitly
depend on it will fail to start.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WZCSVC\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 PM
Value 0
Name: ServiceDll
Type: REG_EXPAND_SZ
Data: %SystemRoot%\System32\wzcsvc.dll

Value 1
Name: ServiceMain
Type: REG_SZ
Data: WZCSvcMain

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\
WZCSVC\Security
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 9:32 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 y.....
00000030 02 00 60 00 04 00 00 00 - 00 00 14 00 fd
01 02 00y...
00000040 01 01 00 00 00 00 05 00 - 12 00 00 00 00
00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20
00 00 00 y.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01
01 00 00
00000070 00 00 00 05 0b 00 00 00 - 00 00 18 00 fd
01 02 00y...
00000080 01 02 00 00 00 00 05 00 - 20 00 00 00 23
02 00 00#...
00000090 01 01 00 00 00 00 05 00 - 12 00 00 00 01
01 00 00
00 00 00 05 12 00 00 00 -
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\WZCSVC\Enum
Class Name: <NO CLASS>
Last Write Time: 10/13/2004 - 2:51 PM
Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_WZCSVC\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\{4349E852-A14E-4787-9E1A-431287E38C02}
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\{4349E852-A14E-4787-9E1A-431287E38C02}\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/15/2004 - 10:30 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\{4349E852-A14E-4787-9E1A-431287E38C02}\Parameters\Tcpip
Class Name: <NO CLASS>

Last Write Time: 4/4/2004 - 5:01 AM
Value 0
Name: EnabledDHCP
Type: REG_DWORD
Data: 0

Value 1
Name: IPAddress
Type: REG_MULTI_SZ
Data: 130.168.206.77

Value 2
Name: SubnetMask
Type: REG_MULTI_SZ
Data: 255.255.0.0

Value 3
Name: DefaultGateway
Type: REG_MULTI_SZ
Data:

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\{CE7A3254-EC99-4338-B407-7465734E5082}
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\{CE7A3254-EC99-4338-B407-7465734E5082}\Parameters
Class Name: <NO CLASS>
Last Write Time: 5/3/2004 - 1:24 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\{CE7A3254-EC99-4338-B407-7465734E5082}\Parameters\Tcpip
Class Name: <NO CLASS>
Last Write Time: 9/3/2004 - 10:01 AM

Value 0
Name: EnabledDHCP
Type: REG_DWORD
Data: 0

Value 1
Name: IPAddress
Type: REG_MULTI_SZ
Data: 130.168.206.77

Value 2
Name: SubnetMask
Type: REG_MULTI_SZ
Data: 255.255.0.0

Value 3
Name: DefaultGateway
Type: REG_MULTI_SZ
Data:

System Summary

System Information report written at: 10/06/04
16:27:20
System Name: ARIZONA
[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	ARIZONA
System Manufacturer	HP
System Model	ProLiant DL585 G1
System Type	X86-based PC
Processor x86 Family	15 Model 5 Stepping 10
AuthenticAMD	-2400 Mhz
Processor x86 Family	15 Model 5 Stepping 10
AuthenticAMD	-2400 Mhz
Processor x86 Family	15 Model 5 Stepping 10
AuthenticAMD	-2400 Mhz
Processor x86 Family	15 Model 5 Stepping 10
AuthenticAMD	-2400 Mhz
BIOS Version/Date	HP A01, 7/26/2004
SMBIOS Version	2.3
Windows Directory	C:\WINDOWS
System Directory	C:\WINDOWS\system32
Boot Device	\Device\HarddiskVolume20
Locale	United States
Hardware Abstraction Layer	Version = "5.2.3790.0 (srv03_rtm.030324-2048)"
User Name	ARIZONA\Administrator
Time Zone	Central Daylight Time
Total Physical Memory	32,768.00 MB
Available Physical Memory	31.38 GB
Total Virtual Memory	65.29 GB
Available Virtual Memory	64.76 GB
Page File Space	33.47 GB
Page File	C:\pagefile.sys

[Hardware Resources]

[Conflicts/Sharing]

Resource	Device	
I/O Port	0x0000A000-0x0000AFFF	PCI standard
PCI-to-PCI bridge		
I/O Port	0x0000A000-0x0000AFFF	Smart Array
5300 Controller (Non-Miniport)		
I/O Port	0x00000000-0x000003AF	PCI bus
I/O Port	0x00000000-0x000003AF	Direct memory access controller
Memory Address	0xF7C00000-0xF7FFFFFF	PCI standard
PCI-to-PCI bridge		
Memory Address	0xF7C00000-0xF7FFFFFF	Smart Array
5300 Controller (Non-Miniport)		

Memory Address 0xF4F00000-0xF74FFFFF	PCI bus	Memory Address 0xF7100000-0xF74FFFFF	Smart Array	0x00000A79-0x00000A79	ISAPNP Read Data Port
Memory Address 0xF4F00000-0xF74FFFFF	PCI standard	5300 Controller (Non-Miniport)		OK	
PCI-to-PCI bridge		I/O Port 0x000003B0-0x000003BB	PCI bus	0x00000279-0x00000279	ISAPNP Read Data Port
Memory Address 0xF4E00000-0xF4EFFFFF	PCI bus	I/O Port 0x000003B0-0x000003BB	PCI standard	OK	
Memory Address 0xF4E00000-0xF4EFFFFF	PCI standard	PCI-to-PCI bridge		0x00000274-0x00000277	ISAPNP Read Data Port
PCI-to-PCI bridge		I/O Port 0x000003B0-0x000003BB	Standard VGA	OK	
I/O Port 0x000003C0-0x000003DF	PCI bus	Graphics Adapter		0x00000020-0x00000021	Motherboard resources
I/O Port 0x000003C0-0x000003DF	PCI standard	I/O Port 0x00004000-0x00004FFF	PCI standard	OK	
PCI-to-PCI bridge		PCI-to-PCI bridge		0x00000020-0x00000021	Programmable interrupt
I/O Port 0x000003C0-0x000003DF	Standard VGA	I/O Port 0x00004000-0x00004FFF	Base System	OK	
Graphics Adapter		Device		0x00000050-0x00000051	Motherboard resources
I/O Port 0x00009000-0x00009FFF	PCI standard	I/O Port 0x00008000-0x00008FFF	PCI standard	OK	
PCI-to-PCI bridge		PCI-to-PCI bridge		0x000000A0-0x000000A1	Motherboard resources
I/O Port 0x00009000-0x00009FFF	Smart Array	I/O Port 0x00008000-0x00008FFF	Smart Array	OK	
5300 Controller (Non-Miniport)		5300 Controller (Non-Miniport)		0x000000A0-0x000000A1	Programmable interrupt
Memory Address 0xF7700000-0xF78FFFFF	PCI standard	I/O Port 0x00000020-0x00000021	Motherboard	OK	
PCI-to-PCI bridge		resources		0x00000020-0x00000021	Motherboard resources
Memory Address 0xF7700000-0xF78FFFFF	Smart Array	I/O Port 0x00000020-0x00000021	Programmable	OK	
5300 Controller (Non-Miniport)		interrupt controller		0x00000260-0x00000267	Motherboard resources
I/O Port 0x00006000-0x00006FFF	PCI standard	[DMA]		OK	
PCI-to-PCI bridge		Resource Device Status		0x000004D0-0x000004D1	Motherboard resources
I/O Port 0x00006000-0x00006FFF	Smart Array	Channel 7 Direct memory access controller	OK	OK	
5300 Controller (Non-Miniport)		Channel 2 Standard floppy disk controller	OK	0x00000800-0x0000081F	Motherboard resources
Memory Address 0xF7500000-0xF7FFFFF	PCI bus	[Forced Hardware]		OK	
Memory Address 0xF7500000-0xF7FFFFF	PCI standard	Device PNP Device ID		0x00000900-0x00000903	Motherboard resources
PCI-to-PCI bridge		[I/O]		OK	
Memory Address 0xF7500000-0xF7FFFFF	Smart Array	Resource Device Status		0x00000904-0x00000907	Motherboard resources
5300 Controller (Non-Miniport)		0x00000000-0x000003AF	PCI bus OK	OK	
I/O Port 0x00005000-0x00005FFF	PCI standard	0x00000000-0x000003AF	Direct memory access	0x00000908-0x0000090B	Motherboard resources
PCI-to-PCI bridge		controller OK		OK	
I/O Port 0x00005000-0x00005FFF	Smart Array	0x000003B0-0x000003BB	PCI bus OK	0x0000090C-0x0000092E	Motherboard resources
5i		0x000003B0-0x000003BB	PCI standard	OK	
I/O Port 0x00000A00-0x00000A1	Motherboard	bridge OK		0x0000092F-0x0000092F	Motherboard resources
resources		0x000003C0-0x000003DF	Standard VGA Graphics	OK	
I/O Port 0x00000A00-0x00000A1	Programmable	0x000003C0-0x000003DF	PCI bus OK	0x00000930-0x000009FF	Motherboard resources
interrupt controller		bridge OK		OK	
IRQ 19 Standard OpenHCD USB Host Controller		0x000003E0-0x00000FFF	PCI bus OK	0x00000C80-0x00000C87	Motherboard resources
IRQ 19 Standard OpenHCD USB Host Controller		0x00001000-0x00006FFF	PCI bus OK	OK	
Memory Address 0xA0000-0xBFFFF	PCI bus	0x00004000-0x00004FFF	PCI standard	0x00000CF9-0x00000CF9	Motherboard resources
Memory Address 0xA0000-0xBFFFF	PCI standard	bridge OK		OK	
PCI-to-PCI bridge		0x00004000-0x00004FFF	Base System Device	OK	
Memory Address 0xA0000-0xBFFFF	Standard VGA	0x00004800-0x000048FF	Base System Device	OK	
Graphics Adapter		0x00004400-0x000044FF	Standard VGA Graphics	OK	
I/O Port 0x00007000-0x0000AFF	PCI bus	Adapter OK		0x00000061-0x00000061	System speaker
I/O Port 0x00007000-0x0000AFF	PCI standard	0x000003E0-0x00000FFF	PCI bus OK	0x00000060-0x00000060	Standard 101/102-Key or
PCI-to-PCI bridge		0x00001000-0x00006FFF	PCI bus OK	OK	Keyboard
I/O Port 0x00007000-0x0000AFF	Smart Array	0x00004000-0x00004FFF	PCI standard	0x00000634-0x00000634	Standard 101/102-Key or
5300 Controller (Non-Miniport)		bridge OK		OK	Keyboard
Memory Address 0xF7100000-0xF74FFFFF	PCI standard	0x00004000-0x00004FFF	Base System Device	0x0000002E-0x0000002F	Extended IO Bus
PCI-to-PCI bridge		0x00004800-0x000048FF	Base System Device	OK	
		0x00004400-0x000044FF	Standard VGA Graphics	0x00000220-0x00000223	Extended IO Bus
		Adapter OK		OK	
				0x00000240-0x0000025F	Extended IO Bus
				OK	

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0x00000070-0x00000073 Extended IO Bus OK
0x000003F8-0x000003FF Communications Port
(COM1) OK
0x000003F2-0x000003F5 Standard floppy disk
controller OK
0x000003F7-0x000003F7 Standard floppy disk
controller OK
0x00002000-0x0000200F Standard Dual Channel
PCI 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
0x00005000-0x00005FFF PCI standard PCI-to-PCI
bridge OK
0x00005000-0x00005FFF Smart Array 5i OK
0x00006000-0x00006FFF PCI standard PCI-to-PCI
bridge OK
0x00006000-0x00006FFF Smart Array 5300
Controller (Non-Miniport) OK
0x00006400-0x000064FF Smart Array 5300
Controller (Non-Miniport) OK
0x00007000-0x0000AFFF PCI bus OK
0x00007000-0x0000AFFF PCI standard PCI-to-PCI
bridge OK
0x00007000-0x0000AFFF Smart Array 5300
Controller (Non-Miniport) OK
0x00008000-0x00008FFF PCI standard PCI-to-PCI
bridge OK
0x00008000-0x00008FFF Smart Array 5300
Controller (Non-Miniport) OK
0x00009000-0x00009FFF PCI standard PCI-to-PCI
bridge OK
0x00009000-0x00009FFF Smart Array 5300
Controller (Non-Miniport) OK
0x00009400-0x000094FF Smart Array 642
Controller (Non-Miniport) OK
0x0000A000-0x0000AFFF PCI standard PCI-to-PCI
bridge OK
0x0000A000-0x0000AFFF Smart Array 5300
Controller (Non-Miniport) OK
0x0000A400-0x0000A4FF Smart Array 5300
Controller (Non-Miniport) OK
[IRQs]
Resource Device Status
IRQ 11 Microsoft ACPI-Compliant System OK
IRQ 19 Standard OpenHCD USB Host Controller OK
IRQ 19 Standard OpenHCD USB Host Controller OK
IRQ 7 Base System Device OK
IRQ 10 Base System Device OK
IRQ 0 System timer OK

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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 18 Smart Array 5i OK
IRQ 25 HP NC7782 Gigabit Server Adapter OK
IRQ 24 HP NC7782 Gigabit Server Adapter #2 OK
IRQ 28 Smart Array 5300 Controller (Non-Miniport)
OK
IRQ 30 Smart Array 5300 Controller (Non-Miniport)
OK
IRQ 32 Smart Array 5300 Controller (Non-Miniport)
OK
IRQ 36 Smart Array 5300 Controller (Non-Miniport)
OK
IRQ 40 Smart Array 5300 Controller (Non-Miniport)
OK
IRQ 42 Smart Array 642 Controller (Non-Miniport)
OK
IRQ 44 Smart Array 5300 Controller (Non-Miniport)
OK
IRQ 46 Smart Array 5300 Controller (Non-Miniport)
OK
[Memory]
Resource Device Status
0xA0000-0xBFFFF PCI bus OK
0xA0000-0xBFFFF PCI standard PCI-to-PCI bridge
OK
0xA0000-0xBFFFF Standard VGA Graphics Adapter OK
0xF4E00000-0xF4EFFFFF PCI bus OK
0xF4E00000-0xF4EFFFFF PCI standard PCI-to-PCI
bridge OK
0xF4F00000-0xF4FFFFF PCI bus OK
0xF4F00000-0xF4FFFFF PCI standard PCI-to-PCI
bridge OK
0xF6FF0000-0xF6FF0FFF Standard OpenHCD USB
Host Controller OK
0xF6FE0000-0xF6FE0FFF Standard OpenHCD USB
Host Controller OK
0xF6FB0000-0xF6FB01FF Base System Device OK
0xF6FA0000-0xF6FA07FF Base System Device OK
0xF6F90000-0xF6F91FFF Base System Device OK
0xF6F00000-0xF6F7FFFF Base System Device OK
0xF5000000-0xF5FFFFFF Standard VGA Graphics
Adapter OK
0xF4FF0000-0xF4FF0FFF Standard VGA Graphics
Adapter OK
0xF7000000-0xF70FFFFF PCI standard PCI-to-PCI
bridge OK
0xF70C0000-0xF70FFFFF Smart Array 5i OK

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0xF4EF0000-0xF4EF3FFF Smart Array 5i OK
0xF70B0000-0xF70BFFFF HP NC7782 Gigabit
Server Adapter OK
0xF70A0000-0xF70AFFFF HP NC7782 Gigabit
Server Adapter #2 OK
0xF7100000-0xF74FFFFF PCI standard PCI-to-PCI
bridge OK
0xF7100000-0xF74FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF74C0000-0xF74FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7300000-0xF73FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF72C0000-0xF72FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7500000-0xF7FFFFF PCI bus OK
0xF7500000-0xF7FFFFF PCI standard PCI-to-PCI
bridge OK
0xF7500000-0xF7FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF76C0000-0xF76FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7700000-0xF78FFFFF PCI standard PCI-to-PCI
bridge OK
0xF7700000-0xF78FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF78C0000-0xF78FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7900000-0xF7BFFFFF PCI standard PCI-to-PCI
bridge OK
0xF7900000-0xF7BFFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7A00000-0xF7AFFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF79F0000-0xF79F1FFF Smart Array 642
Controller (Non-Miniport) OK
0xF7980000-0xF79BFFFF Smart Array 642
Controller (Non-Miniport) OK
0xF7C00000-0xF7FFFFF PCI standard PCI-to-PCI
bridge OK
0xF7C00000-0xF7FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7FC0000-0xF7FFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7E00000-0xF7EFFFFF Smart Array 5300
Controller (Non-Miniport) OK
0xF7DC0000-0xF7DFFFFF Smart Array 5300
Controller (Non-Miniport) OK
[Components]
[Multimedia]
[Audio Codecs]
CODEC Manufacturer Description
Status File Version Size
Creation Date

```

```

c:\windows\system32\msgsm32.acm      Microsoft
Corporation                          OK
C:\WINDOWS\system32\MSGSM32.ACM
5.2.3790.0 (srv03_rtm.030324-2048)
20.50 KB (20,992 bytes)              3/25/2003
6:00 AM
c:\windows\system32\msaud32.acm      Microsoft
Corporation                          OK
Windows Media Audio Codec
C:\WINDOWS\system32\MSAUD32.ACM
8.00.00.4487                         288.00 KB (294,912
bytes)                                3/25/2003 6:00 AM
c:\windows\system32\sl_anet.acm      Sipro Lab
Telecom Inc.                         Sipro Lab Telecom Audio Codec OK
C:\WINDOWS\system32\SL_ANET.ACM
3.02 84.00 KB (86,016 bytes)
3/25/2003 6:00 AM
c:\windows\system32\imaadp32.acm     Microsoft
Corporation                          OK
C:\WINDOWS\system32\IMAADP32.ACM
5.2.3790.0 (srv03_rtm.030324-2048)
15.50 KB (15,872 bytes)              3/25/2003
6:00 AM
c:\windows\system32\msg723.acm      Microsoft
Corporation                          OK
C:\WINDOWS\system32\MSG723.ACM
4.4.4000 116.00 KB (118,784 bytes)
1/15/2004 8:35 PM
c:\windows\system32\l3codeca.acm     Fraunhofer
Institut Integrierte Schaltungen IIS Fraunhofer
IIS MPEG Layer-3 Codec              OK
C:\WINDOWS\system32\L3CODECA.ACM     1,
9, 0, 0305                          284.00 KB (290,816 bytes)
3/25/2003 6:00 AM
c:\windows\system32\msadp32.acm      Microsoft
Corporation                          OK
C:\WINDOWS\system32\MSADP32.ACM
5.2.3790.0 (srv03_rtm.030324-2048)
14.50 KB (14,848 bytes)              3/25/2003
6:00 AM
c:\windows\system32\msg711.acm      Microsoft
Corporation                          OK
C:\WINDOWS\system32\MSG711.ACM
5.2.3790.0 (srv03_rtm.030324-2048)
10.00 KB (10,240 bytes)              3/25/2003
6:00 AM
c:\windows\system32\tssoft32.acm     DSP GROUP,
INC.                                  OK
C:\WINDOWS\system32\TSSOFT32.ACM
1.01 9.50 KB (9,728 bytes)
3/25/2003 6:00 AM

[Video Codecs]

CODEC  Manufacturer  Description
      Status  File      Version  Size
      Creation Date

c:\windows\system32\tsbyuv.dll      Microsoft
Corporation                          OK
C:\WINDOWS\system32\TSBYUV.DLL
5.2.3790.0 (srv03_rtm.030324-2048)
8.00 KB (8,192 bytes)              3/24/2003
7:50 PM

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c:\windows\system32\msh261.drv      Microsoft
Corporation                          OK
C:\WINDOWS\system32\MSH261.DRV
4.4.4000 180.00 KB (184,320 bytes)
1/15/2004 8:35 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
6:00 AM
c:\windows\system32\msyuv.dll       Microsoft Corporation
OK
C:\WINDOWS\system32\MSYUV.DLL 5.2.3790.0
(srv03_rtm.030324-2048)             16.50 KB (16,896 bytes)
3/24/2003 7:49 PM
c:\windows\system32\msvidc32.dll     Microsoft
Corporation                          OK
C:\WINDOWS\system32\MSVIDC32.DLL
5.2.3790.0 (srv03_rtm.030324-2048)
26.50 KB (27,136 bytes)              3/25/2003
6:00 AM
c:\windows\system32\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
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

[CD-ROM]

Item  Value
Drive D:
Description  CD-ROM Drive
Media Loaded  No
Media Type   CD-ROM
Name         TEAC CD-224E
Manufacturer (Standard CD-ROM drives)
Status       OK
Transfer Rate Not Available
SCSI Target ID 0
PNP Device ID IDE\CDROMTEAC_CD-
224E_9.9A_5&2DC47F1C&0
&0.0.0
Driver       c:\windows\system32\drivers\cdrom.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 49.50 KB (50,688
bytes), 3/25/2003 6:00 AM)

[Sound Device]

Item  Value

[Display]

Item  Value
Name  Standard VGA Graphics Adapter

```

```

PNP Device ID
PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_2
7\4&12365AD0&0&1818
Adapter Type      ATI MACH64, (Standard display
types) compatible
Adapter Description Standard VGA Graphics Adapter
Adapter RAM       7.94 MB (8,323,072 bytes)
Installed Drivers
vga.dll,framebuf.dll,vga256.dll,vga64k.dll

Driver Version    5.2.3790.0
INF File display.inf (vga section)
INF Planes        1
Color Table Entries 16777216
Resolution        800 x 600 x 1 hertz
Bits/Pixel        24
Memory Address     0xF5000000-0xF5FFFFFF
I/O Port          0x00004400-0x000044FF
Memory Address     0xF4FF0000-0xF4FF0FFF
I/O Port          0x000003B0-0x000003BB
I/O Port          0x000003C0-0x000003DF
Memory Address     0xA0000-0xBFFFF
Driver             c:\windows\system32\drivers\vgapnp.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 23.00 KB (23,552
bytes), 2/17/2004 3:45 PM)

[Infrared]

Item  Value

[Input]

[Keyboard]

Item  Value
Description  Standard 101/102-Key or Microsoft
Natural PS/2 Keyboard
Name         Enhanced (101- or 102-key)
Layout       00000409
PNP Device ID ACPI\PNP0303\4&1C7DEDE8&0
Number of Function Keys 12
I/O Port     0x00000060-0x00000060
I/O Port     0x00000064-0x00000064
IRQ Channel  IRQ 1
Driver       c:\windows\system32\drivers\i8042prt.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 68.50 KB (70,144
bytes), 3/25/2003 6:00 AM)

[Pointing Device]

Item  Value
Hardware Type  PS/2 Compatible Mouse
Number of Buttons 5
Status        OK
PNP Device ID  ACPI\PNP0F13\4&1C7DEDE8&0
Power Management Supported No
Double Click Threshold 6
Handedness    Right Handed Operation
IRQ Channel    IRQ 12

```

Driver c:\windows\system32\drivers\i8042prt.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 68.50 KB (70,144 bytes), 3/25/2003 6:00 AM)

[Modem]

Item Value

[Network]

[Adapter]

Item Value

Name [00000001] RAS Async Adapter
Adapter Type Not Available
Product Type RAS Async Adapter
Installed Yes
PNP Device ID Not Available
Last Reset 10/6/2004 12:57 PM
Index 1
Service Name AsyncMac
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000002] WAN Miniport (L2TP)
Adapter Type Not Available
Product Type WAN Miniport (L2TP)
Installed Yes
PNP Device ID ROOT\MS_L2TPMINIPORT\0000
Last Reset 10/6/2004 12:57 PM
Index 2
Service Name Rasl2tp
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Driver c:\windows\system32\drivers\rasl2tp.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 77.00 KB (78,848 bytes), 3/25/2003 6:00 AM)

Name [00000003] WAN Miniport (PPTP)
Adapter Type Wide Area Network (WAN)
Product Type WAN Miniport (PPTP)
Installed Yes
PNP Device ID ROOT\MS_PPTPMINIPORT\0000
Last Reset 10/6/2004 12:57 PM
Index 3
Service Name PptpMiniport
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available

DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 50:50:54:50:30:30
Driver c:\windows\system32\drivers\raspptp.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 70.50 KB (72,192 bytes), 3/25/2003 6:00 AM)

Name [00000004] WAN Miniport (PPPOE)
Adapter Type Wide Area Network (WAN)
Product Type WAN Miniport (PPPOE)
Installed Yes
PNP Device ID ROOT\MS_PPPOEMINIORT\0000
Last Reset 10/6/2004 12:57 PM
Index 4
Service Name Rasppoe
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 33:50:6F:45:30:30
Driver c:\windows\system32\drivers\rasppoe.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 38.00 KB (38,912 bytes), 3/25/2003 6:00 AM)

Name [00000005] Direct Parallel
Adapter Type Not Available
Product Type Direct Parallel
Installed Yes
PNP Device ID ROOT\MS_PTMINIPORT\0000
Last Reset 10/6/2004 12:57 PM
Index 5
Service Name Raspti
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Driver c:\windows\system32\drivers\raspti.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 18.50 KB (18,944 bytes), 3/25/2003 6:00 AM)

Name [00000006] WAN Miniport (IP)
Adapter Type Not Available
Product Type WAN Miniport (IP)
Installed Yes
PNP Device ID ROOT\MS_NDISWANIP\0000
Last Reset 10/6/2004 12:57 PM
Index 6
Service Name NdisWan
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available

DHCP Lease Obtained Not Available
MAC Address Not Available
Driver c:\windows\system32\drivers\ndiswan.sys
(5.2.3790.0 (srv03_rtm.030324-2048), 96.50 KB (98,816 bytes), 3/25/2003 6:00 AM)

Name [00000007] HP NC7782 Gigabit Server Adapter

Adapter Type Ethernet 802.3
Product Type HP NC7782 Gigabit Server Adapter

Installed Yes
PNP Device ID PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
0\4&82820FC0&3038
Last Reset 10/6/2004 12:57 PM
Index 7
Service Name q57w2k
IP Address 130.168.206.78
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 00:0E:7F:B0:AE:AB
Memory Address 0xF70B0000-0xF70BFFFF
IRQ Channel IRQ 25
Driver c:\windows\system32\drivers\q57xp32.sys
(7.35.0.0 built by: WinDDK, 110.50 KB (113,152 bytes), 1/15/2004 9:30 PM)

Name [00000008] HP NC7782 Gigabit Server Adapter

Adapter Type Ethernet 802.3
Product Type HP NC7782 Gigabit Server Adapter

Installed Yes
PNP Device ID PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
0\4&82820FC0&3138
Last Reset 10/6/2004 12:57 PM
Index 8
Service Name q57w2k
IP Address 130.168.206.77
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 00:0E:7F:B0:AE:AA
Memory Address 0xF70A0000-0xF70AFFFF
IRQ Channel IRQ 24
Driver c:\windows\system32\drivers\q57xp32.sys
(7.35.0.0 built by: WinDDK, 110.50 KB (113,152 bytes), 1/15/2004 9:30 PM)

[Protocol]

Item Value
Name MSAFD Tcpip [TCP/IP]
Connectionless Service No

Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 16 bytes
 Maximum Message Size 0 bytes
 Message Oriented No
 Minimum Address Size 16 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data Yes
 Supports Graceful Closing Yes
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

 Name MSAFD Tcpip [UDP/IP]
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 16 bytes
 Maximum Message Size 63.93 KB (65,467 bytes)

 Message Oriented Yes
 Minimum Address Size 16 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting Yes

 Name RSVP UDP Service Provider
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 16 bytes
 Maximum Message Size 63.93 KB (65,467 bytes)

 Message Oriented Yes
 Minimum Address Size 16 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption Yes
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting Yes

 Name RSVP TCP Service Provider
 Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 16 bytes
 Maximum Message Size 0 bytes
 Message Oriented No
 Minimum Address Size 16 bytes
 Pseudo Stream Oriented No

Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption Yes
 Supports Expedited Data Yes
 Supports Graceful Closing Yes
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

 Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{CE7A3254-EC99-4338-B407-7465734E5082}] 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_{CE7A3254-EC99-4338-B407-7465734E5082}] 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_{4349E852-A14E-4787-9E1A-431287E38C02}] SEQPACKET 3
 Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)

 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No

Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

 Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{4349E852-A14E-4787-9E1A-431287E38C02}] DATAGRAM 3
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)

 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

 Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{C9AAEDDF-6B65-4D92-A4D6-D9F8D6EAA4E8}] SEQPACKET 1
 Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)

 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

 Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{C9AAEDDF-6B65-4D92-A4D6-D9F8D6EAA4E8}] DATAGRAM 1
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)

 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No

Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}] SEQPACKET 2
 Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)

Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{9C47CAE5-9799-4E1E-A92E-4D3D2644658E}] DATAGRAM 2
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)

Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

[WinSock]

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

File c:\windows\system32\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 6:00 AM)

[Parallel]

Item Value

[Storage]

[Drives]

Item Value

Drive A:
 Description 3 1/2 Inch Floppy Drive

Drive C:
 Description Local Fixed Disk
 Compressed No
 File System NTFS
 Size 33.91 GB (36,410,552,320 bytes)
 Free Space 29.58 GB (31,757,500,416 bytes)

Volume Name
 Volume Serial Number A8BBB354

Drive D:
 Description CD-ROM Disc

Drive F:
 Description Local Fixed Disk
 Compressed Not Available
 File System Not Available
 Size Not Available
 Free Space Not Available
 Volume Name Not Available
 Volume Serial Number Not Available

Drive G:
 Description Local Fixed Disk
 Compressed Not Available
 File System Not Available
 Size Not Available
 Free Space Not Available
 Volume Name Not Available
 Volume Serial Number Not Available

Drive H:
 Description Local Fixed Disk
 Compressed Not Available
 File System Not Available
 Size Not Available
 Free Space Not Available
 Volume Name Not Available
 Volume Serial Number Not Available

Drive I:
 Description Local Fixed Disk
 Compressed Not Available
 File System Not Available
 Size Not Available
 Free Space Not Available
 Volume Name Not Available
 Volume Serial Number Not Available

Drive J:
 Description Local Fixed Disk
 Compressed Not Available
 File System Not Available
 Size Not Available
 Free Space Not Available
 Volume Name Not Available
 Volume Serial Number Not Available

Drive K:
 Description Local Fixed Disk

Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive L:
Description Local Fixed Disk
Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive M:
Description Local Fixed Disk
Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive N:
Description Local Fixed Disk
Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive O:
Description Local Fixed Disk
Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive P:
Description Local Fixed Disk
Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive Q:
Description Local Fixed Disk
Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive R:
Description Local Fixed Disk

Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive S:
Description Local Fixed Disk
Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive T:
Description Local Fixed Disk
Compressed Not Available
File System Not Available
Size Not Available
Free Space Not Available
Volume Name Not Available
Volume Serial Number Not Available

Drive W:
Description Local Fixed Disk
Compressed No
File System NTFS
Size 646.84 GB (694,534,381,568 bytes)
Free Space 462.15 GB (496,226,926,592 bytes)

Volume Name TpscBack1
Volume Serial Number F4225C96

Drive X:
Description Local Fixed Disk
Compressed No
File System NTFS
Size 646.84 GB (694,534,381,568 bytes)
Free Space 462.15 GB (496,226,992,128 bytes)

Volume Name TpscBack2
Volume Serial Number 48F26B24

Drive Y:
Description Local Fixed Disk
Compressed No
File System NTFS
Size 646.84 GB (694,534,381,568 bytes)
Free Space 462.15 GB (496,226,992,128 bytes)

Volume Name TpscBack3
Volume Serial Number 0C753D52

Drive Z:
Description Local Fixed Disk
Compressed No
File System NTFS
Size 646.84 GB (694,534,381,568 bytes)
Free Space 461.31 GB (495,324,721,152 bytes)

Volume Name TpscBack4

Volume Serial Number 60529190

[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 40.03 GB (42,985,313,280 bytes)
Total Cylinders 5,226
Total Sectors 83,955,690
Total Tracks 1,332,630
Tracks/Cylinder 255
Partition Disk #7, Partition #0
Partition Size 40.03 GB (42,984,275,968 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 90.81 GB (97,510,694,400 bytes)
Total Cylinders 11,855
Total Sectors 190,450,575
Total Tracks 3,023,025
Tracks/Cylinder 255
Partition Disk #8, Partition #0
Partition Size 90.81 GB (97,510,227,968 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 646.84 GB (694,534,417,920 bytes)
Total Cylinders 84,439

Total Sectors 1,356,512,535
Total Tracks 21,531,945
Tracks/Cylinder 255
Partition Disk #9, Partition #0
Partition Size 646.84 GB (694,534,385,664 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 40.03 GB (42,985,313,280 bytes)
Total Cylinders 5,226
Total Sectors 83,955,690
Total Tracks 1,332,630
Tracks/Cylinder 255
Partition Disk #4, Partition #0
Partition Size 40.03 GB (42,984,275,968 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 90.81 GB (97,510,694,400 bytes)
Total Cylinders 11,855
Total Sectors 190,450,575
Total Tracks 3,023,025
Tracks/Cylinder 255
Partition Disk #5, Partition #0
Partition Size 90.81 GB (97,510,227,968 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 646.84 GB (694,534,417,920 bytes)
Total Cylinders 84,439
Total Sectors 1,356,512,535
Total Tracks 21,531,945
Tracks/Cylinder 255
Partition Disk #6, Partition #0
Partition Size 646.84 GB (694,534,385,664 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE10
Manufacturer Not Available
Model Not Available
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus Not Available
SCSI Logical Unit Not Available
SCSI Port Not Available
SCSI Target ID Not Available
Sectors/Track 63
Size 40.03 GB (42,985,313,280 bytes)
Total Cylinders 5,226
Total Sectors 83,955,690
Total Tracks 1,332,630
Tracks/Cylinder 255
Partition Disk #10, Partition #0
Partition Size 40.03 GB (42,984,275,968 bytes)

Partition Starting Offset 65,536 bytes

Description \\.\PHYSICALDRIVE11
Manufacturer Not Available
Model Not Available
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus Not Available
SCSI Logical Unit Not Available
SCSI Port Not Available
SCSI Target ID Not Available
Sectors/Track 63
Size 90.81 GB (97,510,694,400 bytes)
Total Cylinders 11,855
Total Sectors 190,450,575
Total Tracks 3,023,025
Tracks/Cylinder 255
Partition Disk #11, Partition #0
Partition Size 90.81 GB (97,510,227,968 bytes)

Partition Starting Offset 65,536 bytes

Description \\.\PHYSICALDRIVE12
Manufacturer Not Available
Model Not Available
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus Not Available

SCSI Logical Unit Not Available
SCSI Port Not Available
SCSI Target ID Not Available
Sectors/Track 63
Size 646.84 GB (694,534,417,920 bytes)
Total Cylinders 84,439
Total Sectors 1,356,512,535
Total Tracks 21,531,945
Tracks/Cylinder 255
Partition Disk #12, Partition #0
Partition Size 646.84 GB (694,534,385,664 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE2
Manufacturer Not Available
Model Not Available
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus Not Available
SCSI Logical Unit Not Available
SCSI Port Not Available
SCSI Target ID Not Available
Sectors/Track 63
Size 40.03 GB (42,985,313,280 bytes)
Total Cylinders 5,226
Total Sectors 83,955,690
Total Tracks 1,332,630
Tracks/Cylinder 255
Partition Disk #2, Partition #0
Partition Size 40.03 GB (42,984,275,968 bytes)

Partition Starting Offset 65,536 bytes

Description \\.\PHYSICALDRIVE3
Manufacturer Not Available
Model Not Available
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus Not Available
SCSI Logical Unit Not Available
SCSI Port Not Available
SCSI Target ID Not Available
Sectors/Track 63
Size 90.81 GB (97,510,694,400 bytes)
Total Cylinders 11,855
Total Sectors 190,450,575
Total Tracks 3,023,025
Tracks/Cylinder 255
Partition Disk #3, Partition #0
Partition Size 90.81 GB (97,510,227,968 bytes)

Partition Starting Offset 65,536 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 40.03 GB (42,985,313,280 bytes)
 Total Cylinders 5,226
 Total Sectors 83,955,690
 Total Tracks 1,332,630
 Tracks/Cylinder 255
 Partition Disk #0, Partition #0
 Partition Size 40.03 GB (42,984,275,968 bytes)

Partition Starting Offset 65,536 bytes

Description \\.\PHYSICALDRIVE1
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #1, Partition #0
 Partition Size 90.81 GB (97,510,227,968 bytes)

Partition Starting Offset 65,536 bytes

Description \\.\PHYSICALDRIVE14
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 40.03 GB (42,985,313,280 bytes)
 Total Cylinders 5,226
 Total Sectors 83,955,690
 Total Tracks 1,332,630
 Tracks/Cylinder 255
 Partition Disk #14, Partition #0
 Partition Size 40.03 GB (42,984,275,968 bytes)

Partition Starting Offset 65,536 bytes

Description \\.\PHYSICALDRIVE15
 Manufacturer Not Available

Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #15, Partition #0
 Partition Size 90.81 GB (97,510,227,968 bytes)

Partition Starting Offset 65,536 bytes

Description \\.\PHYSICALDRIVE16
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 40.03 GB (42,985,313,280 bytes)
 Total Cylinders 5,226
 Total Sectors 83,955,690
 Total Tracks 1,332,630
 Tracks/Cylinder 255
 Partition Disk #16, Partition #0
 Partition Size 40.03 GB (42,984,275,968 bytes)

Partition Starting Offset 65,536 bytes

Description \\.\PHYSICALDRIVE17
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 90.81 GB (97,510,694,400 bytes)
 Total Cylinders 11,855
 Total Sectors 190,450,575
 Total Tracks 3,023,025
 Tracks/Cylinder 255
 Partition Disk #17, Partition #0
 Partition Size 90.81 GB (97,510,227,968 bytes)

Partition Starting Offset 65,536 bytes

Partition Starting Offset 65,536 bytes

Description \\.\PHYSICALDRIVE18
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 646.84 GB (694,534,417,920 bytes)
 Total Cylinders 84,439
 Total Sectors 1,356,512,535
 Total Tracks 21,531,945
 Tracks/Cylinder 255
 Partition Disk #18, Partition #0
 Partition Size 646.84 GB (694,534,385,664 bytes)

Partition Starting Offset 32,256 bytes

Description \\.\PHYSICALDRIVE13
 Manufacturer Not Available
 Model Not Available
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus Not Available
 SCSI Logical Unit Not Available
 SCSI Port Not Available
 SCSI Target ID Not Available
 Sectors/Track 63
 Size 271.34 GB (291,347,642,880 bytes)
 Total Cylinders 35,421
 Total Sectors 569,038,365
 Total Tracks 9,032,355
 Tracks/Cylinder 255
 Partition Disk #13, Partition #0
 Partition Size 271.34 GB (291,346,841,600 bytes)

Partition Starting Offset 65,536 bytes

Description Disk drive
 Manufacturer (Standard disk drives)
 Model COMPAQ LOGICAL VOLUME SCSI Disk Device
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 2
 SCSI Target ID 4
 Sectors/Track 32
 Size 33.91 GB (36,414,750,720 bytes)
 Total Cylinders 8,716
 Total Sectors 71,122,560
 Total Tracks 2,222,580
 Tracks/Cylinder 255
 Partition Disk #19, Partition #0

Partition Size 33.91 GB (36,410,556,416 bytes)

Partition Starting Offset 16,384 bytes

[SCSI]

Item Value
Name Smart Array 5i
Manufacturer Hewlett-Packard Company
Status OK
PNP Device ID PCI\VEN_0E11&DEV_B178&SUBSYS_40800E11&REV_01\4&82820FC&0&2038
Memory Address 0xF70C0000-0xF70FFFFF
I/O Port 0x00005000-0x00005FFF
Memory Address 0xF4EF0000-0xF4EF3FFF
IRQ Channel IRQ 18
Driver c:\windows\system32\drivers\cpqciissm.sys (5.49.2.32 Build 1, 24.28 KB (24,864 bytes), 3/8/2004 3:19 PM)

Name Smart Array 5300 Controller (Non-Miniport)
Manufacturer Hewlett-Packard
Status OK
PNP Device ID PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&24B9E852&0&3840
Memory Address 0xF74C0000-0xF74FFFFF
Memory Address 0xF7300000-0xF73FFFFF
I/O Port 0x00006000-0x00006FFF
IRQ Channel IRQ 28
Driver c:\windows\system32\drivers\hpqcissb.sys (5.7.60.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)
Manufacturer Hewlett-Packard
Status OK
PNP Device ID PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&24B9E852&0&4040
Memory Address 0xF72C0000-0xF72FFFFF
Memory Address 0xF7100000-0xF74FFFFF
I/O Port 0x00006400-0x000064FF
IRQ Channel IRQ 30
Driver c:\windows\system32\drivers\hpqcissb.sys (5.7.60.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)
Manufacturer Hewlett-Packard
Status OK
PNP Device ID PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&25F4D2AC&0&6848
Memory Address 0xF76C0000-0xF76FFFFF
Memory Address 0xF7500000-0xF77FFFFF
I/O Port 0x00007000-0x0000AFFF
IRQ Channel IRQ 32

Driver c:\windows\system32\drivers\hpqcissb.sys (5.7.60.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)
Manufacturer Hewlett-Packard
Status OK
PNP Device ID PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&9630B56&0&7050
Memory Address 0xF78C0000-0xF78FFFFF
Memory Address 0xF7700000-0xF78FFFFF
I/O Port 0x00008000-0x00008FFF
IRQ Channel IRQ 36
Driver c:\windows\system32\drivers\hpqcissb.sys (5.7.60.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)
Manufacturer Hewlett-Packard
Status OK
PNP Device ID PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&2534A57B&0&4858
Memory Address 0xF7BC0000-0xF7BFFFFF
Memory Address 0xF7A00000-0xF7AFFFFF
I/O Port 0x00009000-0x00009FFF
IRQ Channel IRQ 40
Driver c:\windows\system32\drivers\hpqcissb.sys (5.7.60.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 642 Controller (Non-Miniport)
Manufacturer Hewlett-Packard
Status OK
PNP Device ID PCI\VEN_0E11&DEV_0046&SUBSYS_409B0E11&REV_01\4&2534A57B&0&5058
Memory Address 0xF79F0000-0xF79F1FFF
I/O Port 0x00009400-0x000094FF
Memory Address 0xF7980000-0xF79BFFFF
IRQ Channel IRQ 42
Driver c:\windows\system32\drivers\hpqcissb.sys (5.7.60.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)
Manufacturer Hewlett-Packard
Status OK
PNP Device ID PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&62BA2CA&0&5860
Memory Address 0xF7FC0000-0xF7FFFFF
Memory Address 0xF7E00000-0xF7EFFFFF
I/O Port 0x0000A000-0x0000AFFF
IRQ Channel IRQ 44
Driver c:\windows\system32\drivers\hpqcissb.sys (5.7.60.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

Name Smart Array 5300 Controller (Non-Miniport)
Manufacturer Hewlett-Packard
Status OK
PNP Device ID PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_02\4&62BA2CA&0&6060
Memory Address 0xF7DC0000-0xF7DFFFFF
Memory Address 0xF7C00000-0xF7FFFFFFF
I/O Port 0x0000A400-0x0000A4FF
IRQ Channel IRQ 46
Driver c:\windows\system32\drivers\hpqcissb.sys (5.7.60.32 built by: WinDDK, 38.00 KB (38,912 bytes), 1/15/2004 8:57 PM)

[IDE]

Item Value
Name Standard Dual Channel PCI IDE Controller
Manufacturer (Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device ID PCI\VEN_1022&DEV_7469&SUBSYS_32040E11&REV_03\3&20FEA912&0&21
I/O Port 0x00002000-0x0000200F
Driver c:\windows\system32\drivers\pciide.sys (5.2.3790.0 (srv03_rtm.030324-2048), 5.50 KB (5,632 bytes), 3/25/2003 6:00 AM)

Name Primary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device ID PCI\IDE\IDECHANNEL\4&21637DBD&0&0
I/O Port 0x000001F0-0x000001F7
I/O Port 0x000003F6-0x000003F6
IRQ Channel IRQ 14
Driver c:\windows\system32\drivers\ataapi.sys (5.2.3790.0 (srv03_rtm.030324-2048), 89.00 KB (91,136 bytes), 3/25/2003 6:00 AM)

Name Secondary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device ID PCI\IDE\IDECHANNEL\4&21637DBD&0&1
I/O Port 0x00000170-0x00000177
I/O Port 0x00000376-0x00000376
Driver c:\windows\system32\drivers\ataapi.sys (5.2.3790.0 (srv03_rtm.030324-2048), 89.00 KB (91,136 bytes), 3/25/2003 6:00 AM)

[Printing]

Name Driver Port Name Server Name

[Problem Devices]

```

Device      PNP Device ID      Error Code
Base System Device
PCI\VEN_0E11&DEV_B203&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1018 The drivers for this device are
not installed.
Base System Device
PCI\VEN_0E11&DEV_B204&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1218 The drivers for this device are
not installed.

```

[USB]

```

Device      PNP Device ID
Standard OpenHCD USB Host Controller
PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0018
USB Root Hub      USB\ROOT_HUB\5&9B4CD91&0
Standard OpenHCD USB Host Controller
PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0118
USB Root Hub      USB\ROOT_HUB\5&194CD4CC&0

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[Software Environment]

[System Drivers]

Name	Description	File	Type	Started	Start Mode	Status	Error Control	Accept	Pause
abiosdsk	Abiosdsk	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
acpi	Microsoft ACPI Driver	c:\windows\system32\drivers\acpi.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
acpiec	ACPIEC	c:\windows\system32\drivers\acpiec.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal	No
adpu160m	adpu160m	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
adpu320	adpu320	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
afcnc	afcnc	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
afd	AFD Networking Support Environment	c:\windows\system32\drivers\afd.sys	Kernel Driver	Yes	Auto	Running	OK	Normal	No
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		
amddiag	AMD Diagnostic I/O Driver	c:\windows\system32\drivers\amddiag.sys	Kernel Driver	No	System	Stopped	OK	Normal	No
asynccmac	RAS Asynchronous Media Driver	c:\windows\system32\drivers\asynccmac.sys	Kernel Driver	No	Manual	Stopped	OK	Normal	No
atapi	Standard IDE/ESDI Hard Disk Controller	c:\windows\system32\drivers\atapi.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
atdisk	Atdisk	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
ati2mpad	ati2mpad	c:\windows\system32\drivers\ati2mpad.sys	Kernel Driver	No	Manual	Stopped	OK	Ignore	No
atmarpc	ATM ARP Client Protocol	c:\windows\system32\drivers\atmarpc.sys	Kernel Driver	No	Manual	Stopped	OK	Normal	No
audstub	Audio Stub Driver	c:\windows\system32\drivers\audstub.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No
beep	Beep	c:\windows\system32\drivers\beep.sys	Kernel Driver	Yes	System	Running	OK	Normal	No
cbidf2k	cbidf2k	c:\windows\system32\drivers\cbidf2k.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal	No
cd20xrnt	cd20xrnt	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
cdfs	Cdfs	c:\windows\system32\drivers\cdfs.sys	File System Driver	Yes	Disabled	Running	OK	Normal	No
cdrom	CD-ROM Driver	c:\windows\system32\drivers\cdrom.sys	Kernel Driver	Yes	System				

changer	Changer	Not Available	Kernel Driver	No	System	Stopped	OK		
clusdisk	Cluster Disk Driver	c:\windows\system32\drivers\clusdisk.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal	No
cmdide	CmdIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
cpqarray	Cpqarray	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
cpqarray2	cpqarray2	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
cpqcisse	CPQCISSE	c:\windows\system32\drivers\cpqcisse.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No
cpqcissm	cpqcissm	c:\windows\system32\drivers\cpqcissm.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
cpqfcalm	cpqfcalm	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
cpuspy	CpuSpy	c:\windows\system32\drivers\cpuspy.sys	Kernel Driver	No	Manual	Stopped	OK	Normal	No
crdisk	CRC Disk Filter Driver	c:\windows\system32\drivers\crdisk.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
dac960nt	dac960nt	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
dellcerc	dellcerc	Not Available	Kernel Driver	No	Disabled	Stopped	OK		
dfsdriver	DfsDriver	c:\windows\system32\drivers\dfs.sys	File System Driver	Yes	Boot	Running	OK	Normal	No
disk	Disk Driver	c:\windows\system32\drivers\disk.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
dmboot	dmboot	c:\windows\system32\drivers\dmboot.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal	No

dmio	Logical Disk Manager Driver c:\windows\system32\drivers\dmio.sys Kernel Driver Yes Boot Running OK Normal No Yes
dmload	dmload c:\windows\system32\drivers\dmload.sys Kernel Driver Yes Boot Running OK Normal No Yes
dpti2o	dpti2o Not Available Kernel Driver No Disabled Stopped OK Normal No No
fastfat	Fastfat c:\windows\system32\drivers\fastfat.sys File System Driver Yes Disabled Running OK Normal No Yes
fdc	Floppy Disk Controller Driver c:\windows\system32\drivers\fdc.sys Kernel Driver Yes Manual 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
hpqcissb Driver	Smart Array Controllers Non-Miniport Bus c:\windows\system32\drivers\hpqcissb.sys Kernel Driver Yes Boot Running OK Normal No Yes
hpqcissd Driver	Smart Array Controllers Non-Miniport Disk c:\windows\system32\drivers\hpqcissd.sys Kernel Driver Yes Boot Running OK Normal No Yes
hpt3xx	hpt3xx Not Available Kernel Driver No Disabled Stopped OK Normal No No
http	HTTP c:\windows\system32\drivers\http.sys Kernel Driver No Manual

i2omgmt	i2omgmt Not Available Kernel Driver No System Stopped OK Normal No No
i2omp	i2omp Not Available Kernel Driver No Disabled Stopped OK Normal No No
i8042prt	i8042 Keyboard and PS/2 Mouse Port Driver c:\windows\system32\drivers\i8042prt.sys Kernel Driver Yes System Running OK Normal No Yes
iirsp	iirsp Not Available Kernel Driver No Disabled Stopped OK Normal No No
imapi	CD-Burning Filter Driver c:\windows\system32\drivers\imapi.sys Kernel Driver No System Stopped OK Normal No No
intelide	IntelIde Not Available Kernel Driver No Disabled Stopped OK Normal No No
interruptaffinityfilter	Interrupt Affinity Filter c:\windows\system32\drivers\intfiltr.sys Kernel Driver Yes Boot Running OK Normal No Yes
ipfilterdriver	IP Traffic Filter Driver c:\windows\system32\drivers\ipfltdrv.sys Kernel Driver No Manual Stopped OK Normal No No
ipinip	IP in IP Tunnel Driver c:\windows\system32\drivers\ipinip.sys Kernel Driver No Manual Stopped OK Normal No No
ipnat	IP Network Address Translator c:\windows\system32\drivers\ipnat.sys Kernel Driver No Manual Stopped OK Normal No No
ipsec	IPSEC driver c:\windows\system32\drivers\ipsec.sys Kernel Driver Yes System Running OK Normal No Yes
ipsraidn	ipsraidn Not Available Kernel Driver No Disabled Stopped OK Normal No No
isapnp	PnP ISA/EISA Bus Driver c:\windows\system32\drivers\isapnp.sys Kernel Driver Yes Boot Running OK Critical No Yes
kbdclass	Keyboard Class Driver c:\windows\system32\drivers\kbdclass.sys Kernel Driver Yes System Running OK Normal No Yes

ksecdd	KSecDD c:\windows\system32\drivers\ksecdd.sys Kernel Driver Yes Boot Running OK Normal No Yes
lp6nds35	lp6nds35 Not Available Kernel Driver No Disabled Stopped OK Normal No No
mnmdd	mnmdd c:\windows\system32\drivers\mnmdd.sys Kernel Driver Yes System Running OK Ignore No Yes
modem	Modem c:\windows\system32\drivers\modem.sys Kernel Driver No Manual Stopped OK Ignore No No
mouclass	Mouse Class Driver c:\windows\system32\drivers\mouclass.sys Kernel Driver Yes System Running OK Normal No Yes
mountmgr	Mount Point Manager c:\windows\system32\drivers\mountmgr.sys Kernel Driver Yes Boot Running OK Normal No Yes
mrraid35x	mrraid35x Not Available Kernel Driver No Disabled Stopped OK Normal No No
mrxdav	WebDav Client Redirector c:\windows\system32\drivers\mrxdav.sys File System Driver No Manual Stopped OK Normal No No
mrxsmb	MRXSMB c:\windows\system32\drivers\mrxsmb.sys File System Driver Yes System Running OK Normal No Yes
msfs	Msfs c:\windows\system32\drivers\msfs.sys File System Driver Yes System Running OK Normal No Yes
multevent iver.sys	MultEvent Driver \\?\c:\windows\system32\drivers\multeventdr Kernel Driver No Manual Stopped OK Normal No No
mup	Mup c:\windows\system32\drivers\mup.sys File System Driver Yes Boot Running OK Normal No Yes
ndis	NDIS System Driver c:\windows\system32\drivers\ndis.sys Kernel Driver Yes Boot Running OK Normal No Yes
ndistapi	Remote Access NDIS TAPI Driver c:\windows\system32\drivers\ndistapi.sys

	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
ndisuio	NDIS Usermode I/O Protocol				
	c:\windows\system32\drivers\ndisuio.sys				
	Kernel Driver	No	Manual		
	Stopped OK	Normal	No	No	
ndiswan	Remote Access NDIS WAN Driver				
	c:\windows\system32\drivers\ndiswan.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
ndproxy	NDIS Proxy				
	c:\windows\system32\drivers\ndproxy.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
netbios	NetBIOS Interface				
	c:\windows\system32\drivers\netbios.sys				
	File System Driver	Yes	System		
	Running OK	Normal	No	Yes	
netbt	NetBios over Tcpip				
	c:\windows\system32\drivers\netbt.sys				
	Kernel Driver	Yes	System		
	Running OK	Normal	No	Yes	
nfrd960	nfrd960	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
npfs	Npfs				
	c:\windows\system32\drivers\npfs.sys				
	File System Driver	Yes	System		
	Running OK	Normal	No	Yes	
ntfs	Ntfs				
	c:\windows\system32\drivers\ntfs.sys				
	File System Driver	Yes	Disabled		
	Running OK	Normal	No	Yes	
null	Null				
	c:\windows\system32\drivers\null.sys				
	Kernel Driver	Yes	System		
	Running OK	Normal	No	Yes	
parport	Parport				
	c:\windows\system32\drivers\parport.sys				
	Kernel Driver	No	Manual		
	Stopped OK	Ignore	No	No	
partmgr	Partition Manager				
	c:\windows\system32\drivers\partmgr.sys				
	Kernel Driver	Yes	Boot		
	Running OK	Normal	No	Yes	
pci	PCI Bus Driver				
	c:\windows\system32\drivers\pci.sys				
	Kernel Driver	Yes	Boot		
	Running OK	Critical	No	Yes	
pciide	PCIide				
	c:\windows\system32\drivers\pciide.sys				

	Kernel Driver	Yes	Boot		
	Running OK	Normal	No	Yes	
pcmcia	Pcmcia				
	c:\windows\system32\drivers\pcmcia.sys				
	Kernel Driver	No	Disabled		
	Stopped OK	Normal	No	No	
pdcomp	PDCOMP	Not Available		Kernel Driver	
	No	Manual	Stopped	OK	
	Ignore	No	No		
pdframe	PDFFRAME	Not Available		Kernel Driver	
	No	Manual	Stopped	OK	
	Ignore	No	No		
pdreli	PDRELI	Not Available		Kernel Driver	
	No	Manual	Stopped	OK	
	Ignore	No	No		
pdrframe	PDRFRAME	Not Available		Kernel Driver	
	No	Manual	Stopped	OK	
	Ignore	No	No		
perc2	perc2	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
perc2hib	perc2hib	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
pptpminiport	WAN Miniport (PPTP)				
	c:\windows\system32\drivers\raspttp.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
processor	Processor Driver				
	c:\windows\system32\drivers\processr.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
ptilink	Direct Parallel Link Driver				
	c:\windows\system32\drivers\ptilink.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
q57w2k	HP NC7782 Gigabit Server Adapter				
	c:\windows\system32\drivers\q57xp32.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
ql1080	ql1080	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
ql10wnt	Ql10wnt	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
ql12160	ql12160	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
ql1240	ql1240	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
ql1280	ql1280	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		

ql2100	ql2100	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
ql2200	ql2200	Not Available		Kernel Driver	
	No	Disabled	Stopped	OK	
	Normal	No	No		
ql2300	ql2300				
	c:\windows\system32\drivers\ql2300.sys				
	Kernel Driver	Yes	Boot		
	Running OK	Normal	No	Yes	
rasacd	Remote Access Auto Connection Driver				
	c:\windows\system32\drivers\rasacd.sys				
	Kernel Driver	Yes	System		
	Running OK	Normal	No	Yes	
rasl2tp	WAN Miniport (L2TP)				
	c:\windows\system32\drivers\rasl2tp.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
raspppoe	Remote Access PPPOE Driver				
	c:\windows\system32\drivers\raspppoe.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
raspti	Direct Parallel				
	c:\windows\system32\drivers\raspti.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
rdbs	Rdbss				
	c:\windows\system32\drivers\rdbs.sys				
	File System Driver	Yes	System		
	Running OK	Normal	No	Yes	
rdpcdd	RDPCDD				
	c:\windows\system32\drivers\rdpcdd.sys				
	Kernel Driver	Yes	System		
	Running OK	Ignore	No	Yes	
rdpdr	Terminal Server Device Redirector Driver				
	c:\windows\system32\drivers\rdpdr.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Normal	No	Yes	
rdpwd	RDPWD				
	c:\windows\system32\drivers\rdpwd.sys				
	Kernel Driver	Yes	Manual		
	Running OK	Ignore	No	Yes	
redbook	Digital CD Audio Playback Filter Driver				
	c:\windows\system32\drivers\redbook.sys				
	Kernel Driver	Yes	System		
	Running OK	Normal	No	Yes	
secdrv	Secdrv				
	c:\windows\system32\drivers\secdrv.sys				
	Kernel Driver	No	Manual		
	Stopped OK	Normal	No	No	
serenum	Serenum Filter Driver				
	c:\windows\system32\drivers\serenum.sys				

	Kernel Driver	Yes	Manual	
	Running	OK	Normal	No
				Yes
serial	Serial port driver			
	c:\windows\system32\drivers\serial.sys			
	Kernel Driver	Yes	System	
	Running	OK	Ignore	No
				Yes
sfloppy	Sfloppy			
	c:\windows\system32\drivers\sfloppy.sys			
	Kernel Driver	No	System	
	Stopped	OK	Ignore	No
				No
simbad	Simbad	Not Available	Kernel Driver	
	No	Disabled	Stopped	OK
	Normal	No	No	
sparrow	Sparrow	Not Available	Kernel Driver	
	No	Disabled	Stopped	OK
	Normal	No	No	
srv	Srv			
	c:\windows\system32\drivers\srv.sys			
	File System Driver	Yes	Manual	
	Running	OK	Normal	No
				Yes
swenum	Software Bus Driver			
	c:\windows\system32\drivers\swenum.sys			
	Kernel Driver	Yes	Manual	
	Running	OK	Normal	No
				Yes
symc810	symc810	Not Available	Kernel Driver	
	No	Disabled	Stopped	OK
	Normal	No	No	
symc8xx	symc8xx	Not Available	Kernel Driver	
	No	Disabled	Stopped	OK
	Normal	No	No	
symmpi	symmpi	Not Available	Kernel Driver	
	No	Disabled	Stopped	OK
	Normal	No	No	
sym_hi	sym_hi	Not Available	Kernel Driver	
	No	Disabled	Stopped	OK
	Normal	No	No	
sym_u3	sym_u3	Not Available	Kernel Driver	
	No	Disabled	Stopped	OK
	Normal	No	No	
tcpip	TCP/IP Protocol Driver			
	c:\windows\system32\drivers\tcpip.sys			
	Kernel Driver	Yes	System	
	Running	OK	Normal	No
				Yes
tdpipe	TDPIPE			
	c:\windows\system32\drivers\tdpipe.sys			
	Kernel Driver	No	Manual	
	Stopped	OK	Ignore	No
				No
tdtcp	TDTCP			
	c:\windows\system32\drivers\tdtcp.sys			
	Kernel Driver	Yes	Manual	
	Running	OK	Ignore	No
				Yes
termdd	Terminal Device Driver			
	c:\windows\system32\drivers\termdd.sys			
	Kernel Driver	Yes	System	

	Running	OK	Normal	No	Yes
toside	TosIde	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
udfs	Udfs				
	c:\windows\system32\drivers\udfs.sys				
	File System Driver	No	Disabled		
	Stopped	OK	Normal	No	No
ultra	ultra	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
update	Microcode Update Driver				
	c:\windows\system32\drivers\update.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
usbehci	Microsoft USB 2.0 Enhanced Host Controller Miniport Driver				
	c:\windows\system32\drivers\usbehci.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
usbhub	USB2 Enabled Hub				
	c:\windows\system32\drivers\usbhub.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
usbohci	Microsoft USB Open Host Controller Miniport Driver				
	c:\windows\system32\drivers\usbohci.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes
usbstor	USB Mass Storage Driver				
	c:\windows\system32\drivers\usbstor.sys				
	Kernel Driver	No	Manual		
	Stopped	OK	Normal	No	No
vga	vga				
	c:\windows\system32\drivers\vgapnp.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Ignore	No	Yes
vgasave	VGA Display Controller.				
	c:\windows\system32\drivers\vga.sys				
	Kernel Driver	No	System		
	Stopped	OK	Ignore	No	No
viaide	ViaIde	Not Available	Kernel Driver		
	No	Disabled	Stopped	OK	
	Normal	No	No		
volsnap	Storage volumes				
	c:\windows\system32\drivers\volsnap.sys				
	Kernel Driver	Yes	Boot		
	Running	OK	Normal	No	Yes
wanarp	Remote Access IP ARP Driver				
	c:\windows\system32\drivers\wanarp.sys				
	Kernel Driver	Yes	Manual		
	Running	OK	Normal	No	Yes

wdica	WDICA	Not Available	Kernel Driver	
	No	Manual	Stopped	OK
	Ignore	No	No	
wlbs	Network Load Balancing			
	c:\windows\system32\drivers\wlbs.sys			
	Kernel Driver	No	Manual	
	Stopped	OK	Normal	No
			No	No
[Signed Drivers]				
Device Name	Signed	Device Class		
	Driver Version	Driver Date		
	Manufacturer	INF Name	Driver Name	
	Device ID			
Not Available	Not Available	Not Available	Not Available	
Not Available	Not Available	Not Available	Not	
Available	Not Available	Not Available		
	HTREE\ROOT\0			
ACPI Multiprocessor PC		No	COMPUTER	
	5.2.3790.0		10/1/2002 (Standard	
computers)	hal.inf	Not Available		
	ROOT\ACPI_HAL\0000			
Microsoft	ACPI-Compliant System	No		
	SYSTEM	5.2.3790.0	10/1/2002	
	Microsoft acpi.inf	Not Available		
	ACPI_HAL\PNP0C08\0			
Processor	No	PROCESSOR	5.2.3790.0	
	10/1/2002	(Standard processor types)		
	cpu.inf	Not Available		
	ACPI\AUTHENTICAMD_-			
	_X86_FAMILY_15_MODEL_5\0			
Processor	No	PROCESSOR	5.2.3790.0	
	10/1/2002	(Standard processor types)		
	cpu.inf	Not Available		
	ACPI\AUTHENTICAMD_-			
	_X86_FAMILY_15_MODEL_5\1			
Processor	No	PROCESSOR	5.2.3790.0	
	10/1/2002	(Standard processor types)		
	cpu.inf	Not Available		
	ACPI\AUTHENTICAMD_-			
	_X86_FAMILY_15_MODEL_5\2			
Processor	No	PROCESSOR	5.2.3790.0	
	10/1/2002	(Standard processor types)		
	cpu.inf	Not Available		
	ACPI\AUTHENTICAMD_-			
	_X86_FAMILY_15_MODEL_5\3			
ACPI Power Button	No	SYSTEM	5.2.3790.0	
	10/1/2002	(Standard system devices)		
	machine.inf	Not Available		
	ACPI\PNP0C0C\2&DABA3FF&0			
ACPI Lid	No	SYSTEM	5.2.3790.0	
	10/1/2002	(Standard system devices)		
	machine.inf	Not Available		
	ACPI\PNP0C0D\2&DABA3FF&0			
PCI bus	No	SYSTEM	5.2.3790.0	
	10/1/2002	(Standard system devices)		
	machine.inf	Not Available		
	ACPI\PNP0A03\7			
PCI standard	PCI-to-PCI bridge	No		
	SYSTEM	5.2.3790.0	10/1/2002	
	(Standard system devices)	machine.inf		
	Not Available			

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PCI\VEN_1022&DEV_7460&SUBSYS_00000000&REV_0
7\3&20FEA912&0&18
Standard OpenHCD USB Host Controller No USB
5.2.3790.0 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0018
USB Root Hub No USB 5.2.3790.0
10/1/2002 (Standard USB Host Controller)
usbport.inf Not Available
USB\ROOT_HUB\5&9B4CD91&0
Standard OpenHCD USB Host Controller No USB
5.2.3790.0 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
PCI\VEN_1022&DEV_7464&SUBSYS_32020E11&REV_0
B\4&12365AD0&0&0118
USB Root Hub No USB 5.2.3790.0
10/1/2002 (Standard USB Host Controller)
usbport.inf Not Available
USB\ROOT_HUB\5&194CD4CC&0
Base System Device Not Available UNKNOWN Not
Available Not Available Not Available Not
Available Not Available
PCI\VEN_0E11&DEV_B203&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1018
Base System Device Not Available UNKNOWN Not
Available Not Available Not Available Not
Available Not Available
PCI\VEN_0E11&DEV_B204&SUBSYS_B2060E11&REV_0
1\4&12365AD0&0&1218
Standard VGA Graphics Adapter No DISPLAY
5.2.3790.0 10/1/2002 (Standard
display types) display.inf Not Available
PCI\VEN_1002&DEV_4752&SUBSYS_001E0E11&REV_2
7\4&12365AD0&0&1818
Plug and Play Monitor No MONITOR
5.1.2001.0 6/6/2001 (Standard
monitor types) monitor.inf Not Available
DISPLAY\AV00402\5&38B1FFCB&0&12345678&01&03
PCI standard ISA bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_7468&SUBSYS_00000000&REV_0
5\3&20FEA912&0&20
ISAPNP Read Data Port No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
ISAPNP\READDATAPORT\0
Motherboard resources No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
ACPI\PNPOC02\0
Programmable interrupt controller No
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available
ACPI\PNP0000\4&1C7DEDE8&0
System timer No SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0100\4&1C7DEDE8&0

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Direct memory access controller No
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available
ACPI\PNP0200\4&1C7DEDE8&0
System speaker No SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0800\4&1C7DEDE8&0
Standard 101/102-Key or Microsoft Natural PS/2
Keyboard No KEYBOARD 5.2.3790.0
10/1/2002 (Standard keyboards)
keyboard.inf Not Available
ACPI\PNP0303\4&1C7DEDE8&0
PS/2 Compatible Mouse No MOUSE
5.2.3790.0 10/1/2002 Microsoft
mmouse.inf Not Available
ACPI\PNP0F13\4&1C7DEDE8&0
Extended IO Bus No SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0A06\4&1C7DEDE8&0
Communications Port No PORTS 5.2.3790.0
10/1/2002 (Standard port types)
mports.inf Not Available
ACPI\PNP0501\0
Standard floppy disk controller No FDC
5.2.3790.0 10/1/2002 (Standard
floppy disk controllers) fdc.inf Not Available
ACPI\PNP0700\5&1C430410&0
Floppy disk drive No FLOPPYDISK
5.2.3790.0 10/1/2002 (Standard
floppy disk drives) flpydisk.inf Not Available
FDC\GENERIC_FLOPPY_DRIVE\6&2F72E85F&0&0
Standard Dual Channel PCI IDE Controller No
HDC 5.2.3790.0 10/1/2002
(Standard IDE ATA/ATAPI controllers)
mshdc.inf Not Available
PCI\VEN_1022&DEV_7469&SUBSYS_32040E11&REV_0
3\3&20FEA912&0&21
Primary IDE Channel No HDC 5.2.3790.0
10/1/2002 (Standard IDE ATA/ATAPI
controllers) mshdc.inf Not Available
PCI\IDE\IDECHANNEL\4&21637DBD&0&0
CD-ROM Drive No CDROM 5.2.3790.0
10/1/2002 (Standard CD-ROM drives)
cdrom.inf Not Available
IDE\CDROMTEAC_CD-
224E_____9.9A____\5&2DC47F1C&0
&0.0.0
Secondary IDE Channel No HDC
5.2.3790.0 10/1/2002 (Standard IDE
ATA/ATAPI controllers) mshdc.inf Not Available
PCI\IDE\IDECHANNEL\4&21637DBD&0&1
AMD-8111 System Management Controller No
SYSTEM 5.2.3790.0 10/1/2002 AMD
machine.inf Not Available
PCI\VEN_1022&DEV_746B&SUBSYS_32050E11&REV_0
5\3&20FEA912&0&23
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available

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PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&20FEA912&0&38
Smart Array 5i No SCSIADAPTER
5.49.2.32 11/12/2003 Hewlett-
Packard Company oem4.inf Not Available
PCI\VEN_0E11&DEV_B178&SUBSYS_40800E11&REV_0
1\4&82820FC&0&2038
Smart Array 5x and 6x Notification Driver No
SYSTEM 5.52.0.32 7/28/2003 Hewlett-
Packard Company oem5.inf Not Available
SCSI\OTHER&VEN_COMPAQ&PROD_SCSI_COMMUNICATE
&REV_CISS\5&208597A6&0&000
Disk drive No DISKDRIVE 5.2.3790.0
10/1/2002 (Standard disk drives)
disk.inf Not Available
SCSI\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME&RE
V_2.58\5&208597A6&0&040
HP NC7782 Gigabit Server Adapter No NET
7.35.0.0 11/21/2003 Hewlett-
Packard Company oem0.inf Not Available
PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
0\4&82820FC&0&3038
HP NC7782 Gigabit Server Adapter No NET
7.35.0.0 11/21/2003 Hewlett-
Packard Company oem0.inf Not Available
PCI\VEN_14E4&DEV_1648&SUBSYS_00D00E11&REV_1
0\4&82820FC&0&3138
AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 1.80.0.0 5/8/2002 AMD
oem3.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&20FEA912&0&39
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&20FEA912&0&40
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&24B9E852&0&3840
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&3182B25D&0&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&3182B25D&0&0100004000000000
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
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2\4&24B9E852&0&4040
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&28B216E6&0&0000004000000000

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Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
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AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 1.80.0.0 5/8/2002 AMD
oem3.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&20FEA912&0&41
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C0
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1101&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C1
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
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0\3&20FEA912&0&C2
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1103&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C3
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C8
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1101&SUBSYS_00000000&REV_0
0\3&20FEA912&0&C9
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1102&SUBSYS_00000000&REV_0
0\3&20FEA912&0&CA
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1103&SUBSYS_00000000&REV_0
0\3&20FEA912&0&CB
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
0\3&20FEA912&0&D0
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1101&SUBSYS_00000000&REV_0
0\3&20FEA912&0&D1
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available

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PCI\VEN_1022&DEV_1102&SUBSYS_00000000&REV_0
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5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1103&SUBSYS_00000000&REV_0
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PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1100&SUBSYS_00000000&REV_0
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system devices) machine.inf Not Available
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PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1102&SUBSYS_00000000&REV_0
0\3&20FEA912&0&DA
PCI standard host CPU bridge No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
PCI\VEN_1022&DEV_1103&SUBSYS_00000000&REV_0
0\3&20FEA912&0&DB
PCI bus No SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ACPI\PNP0A03\8
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&48
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&25F4D2AC&0&6848
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
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5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
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Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&1F6C26&0&0200004000000000
AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 1.80.0.0 5/8/2002 AMD
oem3.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&33B859B7&0&49

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PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&50
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
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5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
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5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
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5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
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AMD-8131 HyperTransport(tm) IOAPIC Controller No
SYSTEM 1.80.0.0 5/8/2002 AMD
oem3.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
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PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&58
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&2534A57B&0&4858
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
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5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
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Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&208896BC&0&0200004000000000
Smart Array 642 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_0046&SUBSYS_409B0E11&REV_0
1\4&2534A57B&0&5058

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Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_HP&PROD_LOGICAL_VOLUME\5&C
633B0D&0000014001000000
AMD-8131 HyperTransport (tm) IOAPIC Controller No
SYSTEM 1.80.0.0 5/8/2002 AMD
oem3.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&33B859B7&0&59
PCI standard PCI-to-PCI bridge No
SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf
Not Available
PCI\VEN_1022&DEV_7450&SUBSYS_00000000&REV_1
2\3&33B859B7&0&60
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&62BA2CA&0&5860
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&4A1E610&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&4A1E610&0000004000000000
Smart Array 5300 Controller (Non-Miniport) No
SCSIADAPTER 5.6.59.32 4/8/2003
Hewlett-Packard oem1.inf Not Available
PCI\VEN_0E11&DEV_B060&SUBSYS_40700E11&REV_0
2\4&62BA2CA&0&6060
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
HPQCISS\DISK&VEN_COMPAQ&PROD_LOGICAL_VOLUME
\5&D728187&0000004000000000
Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
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Smart Array Logical Volume No DISKDRIVE
5.6.56.32 4/8/2003 Hewlett-Packard
oem2.inf Not Available
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AMD-8131 HyperTransport (tm) IOAPIC Controller No
SYSTEM 1.80.0.0 5/8/2002 AMD
oem3.inf Not Available
PCI\VEN_1022&DEV_7451&SUBSYS_00000000&REV_0
1\3&33B859B7&0&61
ACPI Fixed Feature Button No SYSTEM
5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
ACPI\FIXEDBUTTON\2&DABA3FF&0
Logical Disk Manager No SYSTEM
5.2.3790.0 10/1/2002 (Standard

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system devices) machine.inf Not Available
ROOT\DMIO\0000
Volume Manager No SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices)
machine.inf Not Available
ROOT\FDISK\0000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
9COFFSET10000LENGTHA02100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
9EOFFSET10000LENGTH16B4100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
9FOFFSET10000LENGTH16B4100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
9IOFFSET10000LENGTH16B4100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
9OFOFFSET10000LENGTHA02100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
9EOFFSET10000LENGTHA02100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
9FOFFSET10000LENGTH16B4100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
9BOFFSET7E00LENGTH1B579B000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
92OFFSET10000LENGTHA02100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
94OFFSET7E00LENGTH1B579B000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
95OFFSET10000LENGTHA02100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not

```

```

Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
96OFFSET10000LENGTH16B4100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
E8OFFSET7E00LENGTH1B579B000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATUREE8BDECFF
6OFFSET10000LENGTH43D5A00000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
ECOFFSET10000LENGTHA02100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
EDOFFSET10000LENGTH16B4100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
EEOFFSET10000LENGTHA02100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
EFOFFSET10000LENGTH16B4100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
EEOFFSET10000LENGTHA02100000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE74C7EE
EOFFSET7E00LENGTH1B579B000
Generic volume No VOLUME 5.2.3790.0
10/1/2002 Microsoft volume.inf Not
Available
STORAGE\VOLUME\1&30A96598&0&SIGNATURE4C6B4C
6BOFFSET4000LENGTH87A3D0000
AFD Networking Support Environment Not Available
LEGACYDRIVER Not Available Not
Available Not Available Not Available Not
Available ROOT\LEGACY_AFD\0000
Beep Not Available LEGACYDRIVER Not
Available Not Available Not Available Not
Available Not Available ROOT\LEGACY_BEEP\0000
CpuSpy Driver Not Available LEGACYDRIVER
Not Available Not Available Not
Available Not Available Not Available
ROOT\LEGACY_CPUSPY\0000
CRC Disk Filter Driver Not Available
LEGACYDRIVER Not Available Not
Available Not Available Not Available Not
Available ROOT\LEGACY_CRCDISK\0000
dmbot Not Available LEGACYDRIVER Not
Available Not Available Not Available Not
Available Not Available ROOT\LEGACY_DMBOT\0000

```

dmload	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_DMLoad\0000	
Fips	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_FIPS\0000	
Generic Packet Classifier	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_GPC\0000	
IPSEC driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_IPSEC\0000	
ksecdd	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_KSECDD\0000	
mnmdd	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_MNMDD\0000	
mountmgr	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_MOUNTGR\0000	
MultEvent Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_MULTEVENT\0000	
NDIS System Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NDIS\0000	
Remote Access NDIS TAPI Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NDIS_TAPI\0000	
NDIS Usermode I/O Protocol	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NDISUIO\0000	
NDProxy	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NDPROXY\0000	
NetBios over Tcpip	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NETBT\0000	
Null	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_NULL\0000	
Partition Manager	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_PARTMGR\0000	
ql2300	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available

Available	Not Available	ROOT\LEGACY_QL2300\0000	
Remote Access Auto Connection Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_RASACD\0000	
RDPCCDD	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_RDPCCD\0000	
RDPWD	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_RDPWD\0000	
TCP/IP Protocol Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_TCPIP\0000	
TDTCP	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_TDTCP\0000	
volsnap	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_VOLSNAP\0000	
Remote Access IP ARP Driver	Not Available	LEGACYDRIVER	Not Available
Available	Not Available	Not Available	Not Available
Available	Not Available	ROOT\LEGACY_WANARP\0000	
Audio Codecs	No	MEDIA	5.2.3790.0
	10/1/2002 (Standard system devices)	wave.inf	Not Available
	ROOT\MEDIA\MS_MMCM		
Legacy Audio Drivers	No	MEDIA	5.2.3790.0
system devices)	10/1/2002 (Standard system devices)	wave.inf	Not Available
	ROOT\MEDIA\MS_MMDRV		
Media Control Devices	No	MEDIA	5.2.3790.0
system devices)	10/1/2002 (Standard system devices)	wave.inf	Not Available
	ROOT\MEDIA\MS_MMMCI		
Legacy Video Capture Devices	No	MEDIA	5.2.3790.0
system devices)	10/1/2002 (Standard system devices)	wave.inf	Not Available
	ROOT\MEDIA\MS_MMVCD		
Video Codecs	No	MEDIA	5.2.3790.0
	10/1/2002 (Standard system devices)	wave.inf	Not Available
	ROOT\MEDIA\MS_MMVID		
WAN Miniport (L2TP)	No	NET	5.2.3790.0
Available	10/1/2002 Microsoft netrasa.inf		Not Available
Available	ROOT\MS_L2TPMINIPORT\0000		
WAN Miniport (IP)	No	NET	5.2.3790.0
Available	10/1/2002 Microsoft netrasa.inf		Not Available
Available	ROOT\MS_NDISWANIP\0000		
WAN Miniport (PPPOE)	No	NET	5.2.3790.0
Available	10/1/2002 Microsoft netrasa.inf		Not Available
Available	ROOT\MS_PPPOEMINIPORT\0000		
WAN Miniport (PPTP)	No	NET	5.2.3790.0
Available	10/1/2002 Microsoft netrasa.inf		Not Available
Available	ROOT\MS_PPTPMINIPORT\0000		

Direct Parallel	No	NET	5.2.3790.0
	10/1/2002 Microsoft netrasa.inf		Not Available
Available	ROOT\MS_PTMINIPORT\0000		
Terminal Server Device Redirector	No	SYSTEM	5.2.3790.0
Available	(Standard system devices)	10/1/2002	machine.inf
	Not Available	ROOT\RDPDR\0000	
Terminal Server Keyboard Driver	No	SYSTEM	5.2.3790.0
Available	(Standard system devices)	10/1/2002	machine.inf
	Not Available	ROOT\RDP_KBD\0000	
Terminal Server Mouse Driver	No	SYSTEM	5.2.3790.0
system devices)	10/1/2002 (Standard system devices)	machine.inf	Not Available
	ROOT\RDP_MOU\0000		
Plug and Play Software Device Enumerator	No	SYSTEM	5.2.3790.0
Available	(Standard system devices)	10/1/2002	machine.inf
	Not Available	ROOT\SYSTEM\0000	
Microcode Update Device	No	SYSTEM	5.2.3790.0
system devices)	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%\SystemRoot%\System32\Wbem;C:\Program Files\Microsoft SQL Server\80\Tools\Binn\sqlcmd.exe	<SYSTEM>	
	windir	%SystemRoot%\system32\cmd.exe	<SYSTEM>
OS	Windows_NT	<SYSTEM>	
PROCESSOR_ARCHITECTURE	x86	<SYSTEM>	
PROCESSOR_LEVEL	15	<SYSTEM>	
PROCESSOR_IDENTIFIER	x86 Family 15 Model 5 Stepping 10, AuthenticAMD	<SYSTEM>	
PROCESSOR_REVISION	050a	<SYSTEM>	
NUMBER_OF_PROCESSORS	4	<SYSTEM>	
ClusterLog	C:\WINDOWS\Cluster\cluster.log	<SYSTEM>	
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH	<SYSTEM>	
TEMP	%SystemRoot%\TEMP	<SYSTEM>	
TMP	%SystemRoot%\TEMP	<SYSTEM>	
TEMP	%USERPROFILE%\Local Settings\Temp	NT	
AUTHORITY\SYSTEM	%USERPROFILE%\Local Settings\Temp	NT	
AUTHORITY\SYSTEM	%USERPROFILE%\Local Settings\Temp	NT	
TEMP	%USERPROFILE%\Local Settings\Temp	NT	
AUTHORITY\LOCAL SERVICE	%USERPROFILE%\Local Settings\Temp	NT	
TMP	%USERPROFILE%\Local Settings\Temp	NT	
AUTHORITY\LOCAL SERVICE	%USERPROFILE%\Local Settings\Temp	NT	
TEMP	%USERPROFILE%\Local Settings\Temp	NT	
AUTHORITY\NETWORK SERVICE	%USERPROFILE%\Local Settings\Temp	NT	
TMP	%USERPROFILE%\Local Settings\Temp	NT	
AUTHORITY\NETWORK SERVICE	ARIZONA\Administrator		
TEMP	%USERPROFILE%\Local Settings\Temp		
	ARIZONA\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
Available	Not Available	Not Available	Not Available	Not Available
system	Not Available	4	8	0
1413120	Not Available	Not Available	Not Available	Not Available
smss.exe	Not Available	520	11	
204800	1413120	10/6/2004 12:58 PM	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available
csrss.exe	Not Available	576	13	Not Available
Available	Not Available	10/6/2004 1:04 PM	Not Available	Not Available
winlogon.exe	c:\windows\system32\winlogon.exe	600	13	204800 1413120
10/6/2004 1:04 PM	5.2.3790.0	536.50 KB (549,376 bytes)	3/25/2003 6:00 AM	
(srv03_rtm.030324-2048)				
services.exe	c:\windows\system32\services.exe	644	9	204800 1413120
10/6/2004 1:04 PM	5.2.3790.0	102.00 KB (104,448 bytes)	3/25/2003 6:00 AM	
(srv03_rtm.030324-2048)				
lsass.exe	c:\windows\system32\lsass.exe	656	9	204800 1413120
10/6/2004 1:04 PM	5.2.3790.0 (srv03_rtm.030324-2048)	13.00 KB (13,312 bytes)	3/25/2003	
6:00 AM				
svchost.exe	c:\windows\system32\svchost.exe	804	8	204800 1413120
10/6/2004 1:04 PM	5.2.3790.0	13.00 KB (13,312 bytes)	3/25/2003 6:00 AM	
(srv03_rtm.030324-2048)				
svchost.exe	c:\windows\system32\svchost.exe	860	8	204800 1413120
10/6/2004 1:04 PM	5.2.3790.0	13.00 KB (13,312 bytes)	3/25/2003 6:00 AM	
(srv03_rtm.030324-2048)				
svchost.exe	Not Available	1012	8	
Not Available	Not Available	Not Available	Not Available	Not Available
10/6/2004 1:04 PM	5.2.3790.0	Not Available	Not Available	Not Available
Available	Not Available			

msdtc.exe	Not Available	1068	8	Not Available
Available	Not Available	10/6/2004 1:04 PM	Not Available	Not Available
svchost.exe	c:\windows\system32\svchost.exe	1204	8	204800 1413120
10/6/2004 1:04 PM	5.2.3790.0	13.00 KB (13,312 bytes)	3/25/2003 6:00 AM	
(srv03_rtm.030324-2048)				
wmiprvse.exe	Not Available	1328	8	
Not Available	Not Available	Not Available	Not Available	Not Available
10/6/2004 1:05 PM	5.2.3790.0	Not Available	Not Available	Not Available
Available	Not Available			
explorer.exe	c:\windows\explorer.exe	1548	8	204800 1413120
10/6/2004 1:08 PM	6.00.3790.0	1,008.50 KB (1,032,704 bytes)	3/25/2003 6:00 AM	
(srv03_rtm.030324-2048)				
sqlmangr.exe	c:\program files\microsoft sql server\80\tools\bin\sqlmangr.exe	204800	1413120	10/6/2004 1:08 PM
2000.080.0760.00	72.57 KB (74,308 bytes)	4/4/2004 5:06 AM		
dfssvc.exe	c:\windows\system32\dfssvc.exe	212	8	204800 1413120
10/6/2004 4:21 PM	5.2.3790.0	130.50 KB (133,632 bytes)	3/25/2003 6:00 AM	
(srv03_rtm.030324-2048)				
wmiprvse.exe	Not Available	1456	8	
Not Available	Not Available	Not Available	Not Available	Not Available
10/6/2004 4:22 PM	5.2.3790.0	Not Available	Not Available	Not Available
Available	Not Available			
cmd.exe	c:\windows\system32\cmd.exe	204800	1413120	10/6/2004 4:23 PM
5.2.3790.0 (srv03_rtm.030324-2048)	374.00 KB (382,976 bytes)	3/25/2003		
6:00 AM				
helpctr.exe	c:\windows\pchealth\helpctr\binaries\helpctr.exe	2004	8	204800 1413120
10/6/2004 4:25 PM	5.2.3790.0	764.00 KB (782,336 bytes)	1/15/2004 8:35 PM	
(srv03_rtm.030324-2048)				
helpsvc.exe	c:\windows\pchealth\helpctr\binaries\helpsvc.exe	360	8	204800 1413120
10/6/2004 4:25 PM	5.2.3790.0	720.00 KB (737,280 bytes)	1/15/2004 8:35 PM	
(srv03_rtm.030324-2048)				
[Loaded Modules]				
Name	Version	Size	File Date	Manufacturer
Path				
winlogon	5.2.3790.0 (srv03_rtm.030324-2048)	536.50 KB (549,376 bytes)	3/25/2003	
6:00 AM				
Microsoft Corporation				
c:\windows\system32\winlogon.exe				
ntdll	5.2.3790.0 (srv03_rtm.030324-2048)	722.50 KB (739,840 bytes)	3/25/2003	
6:00 AM				
Microsoft Corporation				
c:\windows\system32\ntdll.dll				
kernel32	5.2.3790.0 (srv03_rtm.030324-2048)	965.00 KB (988,160 bytes)	3/25/2003	

6:00 AM	Microsoft Corporation			
c:\windows\system32\kernel32.dll				
7.0.3790.0 (srv03_rtm.030324-2048)				
msvcrt	319.50 KB (327,168 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\msvcrt.dll				
advapi32	559.50 KB (572,928 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\advapi32.dll				
rpcrt4	643.50 KB (658,944 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\rpcrt4.dll				
user32	562.00 KB (575,488 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\user32.dll				
gdi32	263.00 KB (269,312 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\gdi32.dll				
userenv	732.50 KB (750,080 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\userenv.dll				
nddeapi	16.00 KB (16,384 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\nddeapi.dll				
crypt32	598.00 KB (612,352 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\crypt32.dll				
msasn1	58.00 KB (59,392 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\msasn1.dll				
secur32	63.00 KB (64,512 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\secur32.dll				
winsta	51.00 KB (52,224 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\winsta.dll				
netapi32	317.00 KB (324,608 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\netapi32.dll				
profmap	22.00 KB (22,528 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\profmap.dll				
regapi	48.50 KB (49,664 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\regapi.dll				
ws2_32	87.50 KB (89,600 bytes)	3/25/2003		
6:00 AM	Microsoft Corporation			
c:\windows\system32\ws2_32.dll				

ws2help 5.2.3790.0 (srv03_rtm.030324-2048)
19.50 KB (19,968 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ws2help.dll
psapi 5.2.3790.0 (srv03_rtm.030324-2048)
21.50 KB (22,016 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\psapi.dll
version 5.2.3790.0 (srv03_rtm.030324-2048)
17.00 KB (17,408 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\version.dll
setupapi 5.2.3790.0 (srv03_rtm.030324-2048)
1,014.50 KB (1,038,848 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\setupapi.dll
msgina 5.2.3790.0 (srv03_rtm.030324-2048)
1.14 MB (1,191,936 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\msgina.dll
shsvcs 6.00.3790.0 (srv03_rtm.030324-2048)
121.50 KB (124,416 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\shsvcs.dll
shlwapi 6.00.3790.0 (srv03_rtm.030324-2048)
281.00 KB (287,744 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\shlwapi.dll
sfc 5.2.3790.0 (srv03_rtm.030324-2048)
4.50 KB (4,608 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\sfc.dll
sfc_os 5.2.3790.0 (srv03_rtm.030324-2048)
133.00 KB (136,192 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\sfc_os.dll
wintrust 5.131.3790.0 (srv03_rtm.030324-2048)
161.50 KB (165,376 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wintrust.dll
ole32 5.2.3790.0 (srv03_rtm.030324-2048)
1.13 MB (1,187,328 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ole32.dll
imagehlp 5.2.3790.0 (srv03_rtm.030324-2048)
142.50 KB (145,920 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\imagehlp.dll
comctl32 6.0 (srv03_rtm.030324-2048) 907.00 KB
(928,768 bytes) 1/4/2004 12:11 AM Microsoft
Corporation
c:\windows\winsxs\x86_microsoft.windows.com
mon-controls_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
6:00 AM Microsoft Corporation
c:\windows\system32\winscard.dll
wtsapi32 5.2.3790.0 (srv03_rtm.030324-2048)
17.50 KB (17,920 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wtsapi32.dll

winmm 5.2.3790.0 (srv03_rtm.030324-2048)
166.00 KB (169,984 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\winmm.dll
sxs 5.2.3790.0 (srv03_rtm.030324-2048)
733.00 KB (750,592 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\sxs.dll
shell32 6.00.3790.0 (srv03_rtm.030324-2048)
7.79 MB (8,166,400 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\shell32.dll
wldap32 5.2.3790.0 (srv03_rtm.030324-2048)
158.00 KB (161,792 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wldap32.dll
rsaenh 5.2.3790.0 (srv03_rtm.030324-2048)
176.83 KB (181,072 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\rsaenh.dll
cscdll 5.2.3790.0 (srv03_rtm.030324-2048)
99.00 KB (101,376 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\cscdll.dll
wlnotify 5.2.3790.0 (srv03_rtm.030324-2048)
87.50 KB (89,600 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wlnotify.dll
winspool 5.2.3790.0 (srv03_rtm.030324-2048)
140.00 KB (143,360 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\winspool.drv
mpr 5.2.3790.0 (srv03_rtm.030324-2048)
56.00 KB (57,344 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\mpr.dll
comctl32 5.82 (srv03_rtm.030324-2048) 561.00 KB
(574,464 bytes) 1/4/2004 12:11 AM Microsoft
Corporation
c:\windows\winsxs\x86_microsoft.windows.com
mon-controls_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
6:00 AM Microsoft Corporation
c:\windows\system32\uxtheme.dll
samlib 5.2.3790.0 (srv03_rtm.030324-2048)
49.00 KB (50,176 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\samlib.dll
cscui 5.2.3790.0 (srv03_rtm.030324-2048)
305.00 KB (312,320 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\cscui.dll
oleaut32 5.2.3790.0 486.00 KB (497,664
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\oleaut32.dll
clbcatq 2001.12.4720.0 (srv03_rtm.030324-2048)
481.00 KB (492,544 bytes) 1/15/2004
8:33 PM Microsoft Corporation
c:\windows\system32\clbcatq.dll
comres 2001.12.4720.0 (srv03_rtm.030324-2048)
778.00 KB (796,672 bytes) 3/25/2003

6:00 AM Microsoft Corporation
c:\windows\system32\comres.dll
ntmarta 5.2.3790.0 (srv03_rtm.030324-2048)
114.00 KB (116,736 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ntmarta.dll
wbemprox 5.2.3790.0 (srv03_rtm.030324-2048)
17.50 KB (17,920 bytes) 1/15/2004
8:33 PM Microsoft Corporation
c:\windows\system32\wbem\wbemprox.dll
wbemcomm 5.2.3790.0 (srv03_rtm.030324-2048)
211.50 KB (216,576 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\wbem\wbemcomm.dll
wbemsvc 5.2.3790.0 (srv03_rtm.030324-2048)
42.50 KB (43,520 bytes) 1/15/2004
8:33 PM Microsoft Corporation
c:\windows\system32\wbem\wbemsvc.dll
fastprox 5.2.3790.0 (srv03_rtm.030324-2048)
443.00 KB (453,632 bytes) 1/15/2004
8:33 PM Microsoft Corporation
c:\windows\system32\wbem\fastprox.dll
msvcpc60 6.05.2144.0 388.00 KB (397,312
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\msvcpc60.dll
ntdsapi 5.2.3790.0 (srv03_rtm.030324-2048)
76.00 KB (77,824 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ntdsapi.dll
dnsapi 5.2.3790.0 (srv03_rtm.030324-2048)
147.50 KB (151,040 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\dnsapi.dll
services 5.2.3790.0 (srv03_rtm.030324-2048)
102.00 KB (104,448 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\services.exe
sceesrv 5.2.3790.0 (srv03_rtm.030324-2048)
316.50 KB (324,096 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\sceesrv.dll
authz 5.2.3790.0 (srv03_rtm.030324-2048)
67.00 KB (68,608 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\authz.dll
umpnpmgr 5.2.3790.0 (srv03_rtm.030324-2048)
121.50 KB (124,416 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\umpnpmgr.dll
ncobjapi 5.2.3790.0 (srv03_rtm.030324-2048)
34.50 KB (35,328 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\ncobjapi.dll
eventlog 5.2.3790.0 (srv03_rtm.030324-2048)
60.50 KB (61,952 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\eventlog.dll
lsass 5.2.3790.0 (srv03_rtm.030324-2048)
13.00 KB (13,312 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\lsass.exe
lsasrv 5.2.3790.0 (srv03_rtm.030324-2048)
780.50 KB (799,232 bytes) 3/25/2003

6:00 AM Microsoft Corporation
 c:\windows\system32\lsasrv.dll
 samsrv 5.2.3790.0 (srv03_rtm.030324-2048)
 452.00 KB (462,848 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\samsrv.dll
 cryptdll 5.2.3790.0 (srv03_rtm.030324-2048)
 34.00 KB (34,816 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\cryptdll.dll
 msprivs 5.2.3790.0 (srv03_rtm.030324-2048)
 46.50 KB (47,616 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\msprivs.dll
 kerberos 5.2.3790.0 (srv03_rtm.030324-2048)
 332.50 KB (340,480 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\kerberos.dll
 msvl_0 5.2.3790.0 (srv03_rtm.030324-2048)
 127.00 KB (130,048 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\msvl_0.dll
 netlogon 5.2.3790.0 (srv03_rtm.030324-2048)
 409.00 KB (418,816 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\netlogon.dll
 w32time 5.2.3790.0 (srv03_rtm.030324-2048)
 216.00 KB (221,184 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\w32time.dll
 iphlpapi 5.2.3790.0 (srv03_rtm.030324-2048)
 82.50 KB (84,480 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\iphlpapi.dll
 schannel 5.2.3790.0 (srv03_rtm.030324-2048)
 149.50 KB (153,088 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\schannel.dll
 wdigest 5.2.3790.0 (srv03_rtm.030324-2048)
 61.00 KB (62,464 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wdigest.dll
 rassfm 5.2.3790.0 (srv03_rtm.030324-2048)
 20.50 KB (20,992 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\rassfm.dll
 kdcsvc 5.2.3790.0 (srv03_rtm.030324-2048)
 221.00 KB (226,304 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\kdcsvc.dll
 ntlsa 5.2.3790.0 (srv03_rtm.030324-2048)
 1.45 MB (1,520,640 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\ntlsa.dll
 ntdsatq 5.2.3790.0 (srv03_rtm.030324-2048)
 32.00 KB (32,768 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\ntdsatq.dll
 mssock 5.2.3790.0 (srv03_rtm.030324-2048)
 254.00 KB (260,096 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\mssock.dll

esent 5.2.3790.0 (srv03_rtm.030324-2048)
 1.01 MB (1,056,256 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\esent.dll
 scecli 5.2.3790.0 (srv03_rtm.030324-2048)
 179.50 KB (183,808 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\scecli.dll
 wshtcpip 5.2.3790.0 (srv03_rtm.030324-2048)
 18.00 KB (18,432 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wshtcpip.dll
 dsenh 5.2.3790.0 (srv03_rtm.030324-2048)
 131.33 KB (134,480 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\dsenh.dll
 svchost 5.2.3790.0 (srv03_rtm.030324-2048)
 13.00 KB (13,312 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\svchost.exe
 rpcss 5.2.3790.0 (srv03_rtm.030324-2048)
 276.50 KB (283,136 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\rpcss.dll
 termsrv 5.2.3790.0 (srv03_rtm.030324-2048)
 216.50 KB (221,696 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\termsrv.dll
 icaapi 5.2.3790.0 (srv03_rtm.030324-2048)
 10.50 KB (10,752 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\icaapi.dll
 mstlsapi 5.2.3790.0 (srv03_rtm.030324-2048)
 104.50 KB (107,008 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\mstlsapi.dll
 activeds 5.2.3790.0 (srv03_rtm.030324-2048)
 189.00 KB (193,536 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\activeds.dll
 adslrpc 5.2.3790.0 (srv03_rtm.030324-2048)
 142.50 KB (145,920 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\adslrpc.dll
 credui 5.2.3790.0 (srv03_rtm.030324-2048)
 159.00 KB (162,816 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\credui.dll
 atl 3.05.2283 83.00 KB (84,992 bytes)
 3/25/2003 6:00 AM Microsoft Corporation
 c:\windows\system32\atl.dll
 rdpwsx 5.2.3790.0 (srv03_rtm.030324-2048)
 80.13 KB (82,056 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\rdpwsx.dll
 dmserver 5.2.3790.0 (srv03_rtm.030324-2048)
 24.00 KB (24,576 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\dmserver.dll
 wmisvc 5.2.3790.0 (srv03_rtm.030324-2048)
 131.00 KB (134,144 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\wbem\wmisvc.dll

vssapi 5.2.3790.0 (srv03_rtm.030324-2048)
 528.00 KB (540,672 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\vssapi.dll
 es 2001.12.4720.0 (srv03_rtm.030324-2048)
 221.50 KB (226,816 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\es.dll
 comsvcs 2001.12.4720.0 (srv03_rtm.030324-2048)
 1.14 MB (1,199,616 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\comsvcs.dll
 sens 5.2.3790.0 (srv03_rtm.030324-2048)
 35.50 KB (36,352 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\sens.dll
 wbemcore 5.2.3790.0 (srv03_rtm.030324-2048)
 457.00 KB (467,968 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\wbem\wbemcore.dll
 esscli 5.2.3790.0 (srv03_rtm.030324-2048)
 235.50 KB (241,152 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\wbem\esscli.dll
 wmiutils 5.2.3790.0 (srv03_rtm.030324-2048)
 90.50 KB (92,672 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\wbem\wmiutils.dll
 repdrvfs 5.2.3790.0 (srv03_rtm.030324-2048)
 165.00 KB (168,960 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\wbem\repdrvfs.dll
 wmiprvsd 5.2.3790.0 (srv03_rtm.030324-2048)
 405.50 KB (415,232 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\wbem\wmiprvsd.dll
 wbemess 5.2.3790.0 (srv03_rtm.030324-2048)
 256.50 KB (262,656 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\wbem\wbemess.dll
 ncprov 5.2.3790.0 (srv03_rtm.030324-2048)
 43.00 KB (44,032 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\wbem\ncprov.dll
 netman 5.2.3790.0 (srv03_rtm.030324-2048)
 209.00 KB (214,016 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\netman.dll
 mprapi 5.2.3790.0 (srv03_rtm.030324-2048)
 81.00 KB (82,944 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\mprapi.dll
 rtutils 5.2.3790.0 (srv03_rtm.030324-2048)
 32.00 KB (32,768 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\rtutils.dll
 rasapi32 5.2.3790.0 (srv03_rtm.030324-2048)
 227.50 KB (232,960 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\rasapi32.dll
 rasman 5.2.3790.0 (srv03_rtm.030324-2048)
 56.50 KB (57,856 bytes) 3/25/2003

6:00 AM Microsoft Corporation
 c:\windows\system32\rasman.dll
 tapi32 5.2.3790.0 (srv03_rtm.030324-2048)
 175.00 KB (179,200 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\tapi32.dll
 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
 wmi 5.2.3790.0 (srv03_rtm.030324-2048)
 6.50 KB (6,656 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wmi.dll
 dhcpcsvc 5.2.3790.0 (srv03_rtm.030324-2048)
 101.50 KB (103,936 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\dhcpcsvc.dll
 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
 6:00 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
 6:00 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
 6:00 AM Microsoft Corporation
 c:\windows\system32\hnetcfg.dll
 wininet 6.00.3790.0 (srv03_rtm.030324-2048)
 609.00 KB (623,616 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wininet.dll
 rasdlg 5.2.3790.0 (srv03_rtm.030324-2048)
 642.00 KB (657,408 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\rasdlg.dll
 wksevc 5.2.3790.0 (srv03_rtm.030324-2048)
 125.00 KB (128,000 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wksevc.dll
 netcfgx 5.2.3790.0 (srv03_rtm.030324-2048)
 726.00 KB (743,424 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\netcfgx.dll
 winipsec 5.2.3790.0 (srv03_rtm.030324-2048)
 34.50 KB (35,328 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\winipsec.dll
 wbemcons 5.2.3790.0 (srv03_rtm.030324-2048)
 69.00 KB (70,656 bytes) 1/15/2004
 8:33 PM Microsoft Corporation
 c:\windows\system32\wbem\wbemcons.dll
 srvsvc 5.2.3790.0 (srv03_rtm.030324-2048)
 89.00 KB (91,136 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\srvsvc.dll

pchsvc 5.2.3790.0 (srv03_rtm.030324-2048)
 31.50 KB (32,256 bytes) 1/15/2004
 8:35 PM Microsoft Corporation
 c:\windows\pchealth\helpctr\binaries\pchsvc
 .dll
 explorer 6.00.3790.0 (srv03_rtm.030324-2048)
 1,008.50 KB (1,032,704 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\explorer.exe
 browseui 6.00.3790.0 (srv03_rtm.030324-2048)
 1.01 MB (1,057,280 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\browseui.dll
 shdocvw 6.00.3790.0 (srv03_rtm.030324-2048)
 1.33 MB (1,393,664 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\shdocvw.dll
 apphelp 5.2.3790.0 (srv03_rtm.030324-2048)
 122.00 KB (124,928 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\apphelp.dll
 themeui 6.00.3790.0 (srv03_rtm.030324-2048)
 360.50 KB (369,152 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\themeui.dll
 msimg32 5.2.3790.0 (srv03_rtm.030324-2048)
 4.50 KB (4,608 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\msimg32.dll
 linkinfo 5.2.3790.0 (srv03_rtm.030324-2048)
 16.50 KB (16,896 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\linkinfo.dll
 ntshrui 6.00.3790.0 (srv03_rtm.030324-2048)
 136.00 KB (139,264 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\ntshrui.dll
 urlmon 6.00.3790.0 (srv03_rtm.030324-2048)
 501.50 KB (513,536 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\urlmon.dll
 webcheck 6.00.3790.0 (srv03_rtm.030324-2048)
 261.50 KB (267,776 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\webcheck.dll
 wsoc32 5.2.3790.0 (srv03_rtm.030324-2048)
 22.00 KB (22,528 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\wsoc32.dll
 stobject 5.2.3790.0 (srv03_rtm.030324-2048)
 117.50 KB (120,320 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\stobject.dll
 batmeter 6.00.3790.0 (srv03_rtm.030324-2048)
 28.50 KB (29,184 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\batmeter.dll
 powrprof 6.00.3790.0 (srv03_rtm.030324-2048)
 14.50 KB (14,848 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\powrprof.dll
 printui 5.2.3790.0 (srv03_rtm.030324-2048)
 536.50 KB (549,376 bytes) 3/25/2003

6:00 AM Microsoft Corporation
 c:\windows\system32\printui.dll
 cfgmgr32 5.2.3790.0 (srv03_rtm.030324-2048)
 17.50 KB (17,920 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\cfgmgr32.dll
 drprov 5.2.3790.0 (srv03_rtm.030324-2048)
 12.50 KB (12,800 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\drprov.dll
 ntlanman 5.2.3790.0 (srv03_rtm.030324-2048)
 41.00 KB (41,984 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\ntlanman.dll
 netui0 5.2.3790.0 (srv03_rtm.030324-2048)
 75.50 KB (77,312 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\netui0.dll
 netuil 5.2.3790.0 (srv03_rtm.030324-2048)
 184.00 KB (188,416 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\netuil.dll
 davclnt 5.2.3790.0 (srv03_rtm.030324-2048)
 23.50 KB (24,064 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\davclnt.dll
 sqlmangr 2000.080.0760.00 72.57 KB (74,308 bytes)
 4/4/2004 5:06 AM 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 6:00 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
 6:00 AM Microsoft Corporation
 c:\windows\system32\comdlg32.dll
 w95scm 2000.080.0760.00 48.56 KB (49,728 bytes)
 4/4/2004 5:06 AM Microsoft Corporation
 c:\program files\microsoft sql
 server\80\tools\bin\w95scm.dll
 odb32 3.525.1022.0 (srv03_rtm.030324-2048)
 232.00 KB (237,568 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\odb32.dll
 sqlsvc 2000.080.0760.00 92.56 KB (94,784 bytes)
 4/4/2004 5:06 AM Microsoft Corporation
 c:\program files\microsoft sql
 server\80\tools\bin\sqlsvc.dll
 odbcbcp 2000.085.1022.0 (srv03_rtm.030324-2048)
 24.00 KB (24,576 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\odbcbcp.dll
 sqlresld 2000.080.0382.00 28.56 KB (29,248 bytes)
 4/4/2004 5:06 AM Microsoft Corporation
 c:\program files\microsoft sql
 server\80\tools\bin\sqlresld.dll
 odbcbint 3.525.1022.0 (srv03_rtm.030324-2048)
 92.00 KB (94,208 bytes) 3/25/2003
 6:00 AM Microsoft Corporation
 c:\windows\system32\odbcbint.dll
 resutils 5.2.3790.0 (srv03_rtm.030324-2048)
 59.00 KB (60,416 bytes) 3/25/2003

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6:00 AM Microsoft Corporation
c:\windows\system32\resutils.dll
mfc42u 6.05.3014.0 960.00 KB (983,040
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\mfc42u.dll
sqlsvc 2000.080.0194.00 24.00 KB (24,576 bytes)
4/4/2004 5:06 AM 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)
4/4/2004 5:06 AM Microsoft Corporation
c:\program files\microsoft sql
server\80\tools\bin\resources\1033\sqlmangr.rll
dfssvc 5.2.3790.0 (srv03_rtm.030324-2048)
130.50 KB (133,632 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\dfssvc.exe
cmd 5.2.3790.0 (srv03_rtm.030324-2048)
374.00 KB (382,976 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\cmd.exe
helpctr 5.2.3790.0 (srv03_rtm.030324-2048)
764.00 KB (782,336 bytes) 1/15/2004
8:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpctr
.exe
hcappres 5.2.3790.0 (srv03_rtm.030324-2048)
6.50 KB (6,656 bytes) 1/15/2004
8:35 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
6:00 AM Microsoft Corporation
c:\windows\system32\itss.dll
msxml3 8.40.9419.0 1.28 MB (1,337,344
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\msxml3.dll
pchshell 5.2.3790.0 (srv03_rtm.030324-2048)
100.50 KB (102,912 bytes) 1/15/2004
8:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchshe
ll.dll
mlang 6.00.3790.0 (srv03_rtm.030324-2048)
570.00 KB (583,680 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\mlang.dll
mshtml 6.00.3790.0 (srv03_rtm.030324-2048)
2.78 MB (2,916,352 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
msimtf 5.2.3790.0 (srv03_rtm.030324-2048)
149.00 KB (152,576 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\msimtf.dll
msctf 5.2.3790.0 (srv03_rtm.030324-2048)
287.00 KB (293,888 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\msctf.dll
shdoclc 6.00.3790.0 (srv03_rtm.030324-2048)
588.50 KB (602,624 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\shdoclc.dll

```

```

jscript 5.6.0.8515 436.00 KB (446,464
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\jscript.dll
msls31 3.10.349.0 147.00 KB (150,528
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\msls31.dll
imm32 5.2.3790.0 (srv03_rtm.030324-2048)
105.50 KB (108,032 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\imm32.dll
mshtml 6.00.3790.0 (srv03_rtm.030324-2048)
443.50 KB (454,144 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
vbscript 5.6.0.8515 404.00 KB (413,696
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\vbscript.dll
mfc42 6.05.3014.0 960.00 KB (983,040
bytes) 3/25/2003 6:00 AM Microsoft Corporation
c:\windows\system32\mfc42.dll
mainfo 5.2.3790.0 (srv03_rtm.030324-2048)
358.50 KB (367,104 bytes) 1/15/2004
8:35 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\mainfo
.dll
riched32 5.2.3790.0 (srv03_rtm.030324-2048)
3.50 KB (3,584 bytes) 3/25/2003
6:00 AM Microsoft Corporation
c:\windows\system32\riched32.dll
riched20 5.31.23.1218 406.00 KB (415,744
bytes) 3/25/2003 6:00 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
6:00 AM Microsoft Corporation
c:\windows\system32\mydocs.dll
helpsvc 5.2.3790.0 (srv03_rtm.030324-2048)
720.00 KB (737,280 bytes) 1/15/2004
8:35 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 Manual 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 Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Computer Browser Browser Stopped Manual
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 Stopped
Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Distributed File System Dfs Running
Manual Own Process
c:\windows\system32\dfssvc.exe
Normal LocalSystem 0
DHCP Client Dhcp Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k
networkservice Normal NT
AUTHORITY\NetworkService 0
Logical Disk Manager Administrative Service
dmdadmin Stopped Manual Share Process
c:\windows\system32\dmdadmin.exe /com
Normal LocalSystem 0
Logical Disk Manager dmserver Running
Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
DNS Client Dnscache Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k
networkservice Normal NT
AUTHORITY\NetworkService 0
Error Reporting Service ERSvc Stopped
Disabled 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 Manual
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 Manual
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Workstation lanmanworkstation Running
Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
License Logging LicenseService Stopped
Disabled Own Process
c:\windows\system32\llssrv.exe
Normal NT AUTHORITY\NetworkService 0
TCP/IP NetBIOS Helper LmHosts Running
Auto Share Process
c:\windows\system32\svchost.exe -k
localservice Normal NT
AUTHORITY\LocalService 0
Messenger Messenger Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
NetMeeting Remote Desktop Sharing mnmsrvc
Stopped Disabled Own Process
c:\windows\system32\mnmsrvc.exe
Normal LocalSystem 0
Distributed Transaction Coordinator MSDTC
Running Auto Own Process
c:\windows\system32\msdtc.exe Normal NT
AUTHORITY\NetworkService 0
Windows Installer MSIServer Stopped Manual
Share Process
c:\windows\system32\msiexec.exe /v
Normal LocalSystem 0
Microsoft Search MSSEARCH Stopped Disabled
Share Process "c:\program
files\common files\system\mssearch\bin\mssearch.exe"
Normal LocalSystem 0
MSSQLSERVER MSSQLSERVER Stopped
Manual Own Process
c:\progra-1\micros-1\mssql\bin\sqlservr.exe
Normal LocalSystem 0
MSSQLServerADHelper MSSQLServerADHelper Stopped
Manual Own Process c:\program
files\microsoft sql server\80\tools\bin\sqladhlp.exe
Normal LocalSystem 0

```

```

Network DDE NetDDE Stopped Disabled
Share Process
c:\windows\system32\netdde.exe
Normal LocalSystem 0
Network DDE DSDM NetDDEdsdm Stopped
Disabled Share Process
c:\windows\system32\netdde.exe
Normal LocalSystem 0
Net Logon Netlogon Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal
LocalSystem 0
Network Connections Netman Running Manual
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Network Location Awareness (NLA) Nla
Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
File Replication NtFrs Stopped Manual Own
Process c:\windows\system32\ntfrs.exe Ignore
LocalSystem 0
NT LM Security Support Provider NtLmSsp
Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal
LocalSystem 0
Removable Storage NtmsSvc Stopped Manual
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Plug and Play PlugPlay Running Auto
Share Process
c:\windows\system32\services.exe
Normal LocalSystem 0
IPSEC Services PolicyAgent Stopped
Disabled Share Process
c:\windows\system32\lsass.exe Normal
LocalSystem 0
Protected Storage ProtectedStorage Stopped
Disabled 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 Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Remote Registry RemoteRegistry Stopped
Disabled Share Process
c:\windows\system32\svchost.exe -k regsvc
Normal NT AUTHORITY\LocalService 0

```

```

Remote Procedure Call (RPC) Locator RpcLocator
Stopped Manual Own Process
c:\windows\system32\locator.exe
Normal NT AUTHORITY\NetworkService 0
Remote Procedure Call (RPC) RpcSs Running
Auto Share Process
c:\windows\system32\svchost -k rpcss
Normal LocalSystem 0
Resultant Set of Policy Provider RSOPProv
Stopped Manual Share Process
c:\windows\system32\rsopprov.exe
Normal LocalSystem 0
Special Administration Console Helper saccsvr
Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Security Accounts Manager SamSs Running
Auto Share Process
c:\windows\system32\lsass.exe Normal
LocalSystem 0
Smart Card SCardSvr Stopped Manual
Share Process
c:\windows\system32\scardsvr.exe
Ignore NT AUTHORITY\LocalService 0
Task Scheduler Schedule Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Normal LocalSystem 0
Secondary Logon seclogon Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k netsvcs
Ignore LocalSystem 0
System Event Notification SENS Running
Manual 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
Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs
Ignore LocalSystem 0
Print Spooler Spooler Stopped Disabled Own
Process c:\windows\system32\spoolsv.exe
Normal LocalSystem 0
SQLSERVERAGENT SQLSERVERAGENT Stopped
Manual Own Process
c:\progra-1\micros-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 termvcs
Normal LocalSystem 0

Themes Themes Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0

Telnet TlntSvr Stopped Disabled Own Process
c:\windows\system32\tlntsvr.exe
Normal NT AUTHORITY\LocalService 0

Distributed Link Tracking Server TrkSvr
Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0

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

Terminal Services Session Directory Tssdis
Stopped Manual Own Process
c:\windows\system32\tssdis.exe
Normal LocalSystem 0

Upload Manager uploadmgr Stopped Manual
Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0

Uninterruptible Power Supply UPS Stopped
Manual Own Process
c:\windows\system32\ups.exe Normal NT
AUTHORITY\LocalService 0

Virtual Disk Service vds Stopped
Manual Own Process
c:\windows\system32\vds.exe Normal
LocalSystem 0

Volume Shadow Copy VSS Stopped Manual Own
Process c:\windows\system32\vssvc.exe Normal
LocalSystem 0

Windows Time W32Time Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k netvcs
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 netvcs
Ignore LocalSystem 0
Portable Media Serial Number Service WmdmPmSN
Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0

Windows Management Instrumentation Driver Extensions
Wmi Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0

WMI Performance Adapter WmiApSrv Stopped
Manual Own Process
c:\windows\system32\wbem\wmiapsrv.exe
Normal LocalSystem 0

Automatic Updates wuauerv Stopped Disabled
Share Process
c:\windows\system32\svchost.exe -k netvcs
Normal LocalSystem 0

Wireless Configuration WZCSVC Stopped
Disabled Share Process
c:\windows\system32\svchost.exe -k netvcs
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

Java Web Start Default User:Java Web Start
Default User
Startup Default User:Startup Default User

Accessories All Users:Accessories All
Users
Accessories\Accessibility All
Users:Accessories\Accessibility All Users
Accessories\Communications All
Users:Accessories\Communications All Users
Accessories\Entertainment All
Users:Accessories\Entertainment All Users
Accessories\System Tools All
Users:Accessories\System Tools All Users
Administrative Tools All
Users:Administrative Tools All Users
Microsoft SQL Server All Users:Microsoft SQL
Server All Users
Startup All Users:Startup All Users
Accessories NT AUTHORITY\SYSTEM:Accessories
NT AUTHORITY\SYSTEM
Accessories\Accessibility NT
AUTHORITY\SYSTEM:Accessories\Accessibility NT
AUTHORITY\SYSTEM
Accessories\Entertainment NT
AUTHORITY\SYSTEM:Accessories\Entertainment NT
AUTHORITY\SYSTEM
Java Web Start NT AUTHORITY\SYSTEM:Java Web
Start NT AUTHORITY\SYSTEM

```

```

Startup NT AUTHORITY\SYSTEM:Startup NT
AUTHORITY\SYSTEM
Accessories ARIZONA\Administrator:Accessories
ARIZONA\Administrator
Accessories\Accessibility
ARIZONA\Administrator:Accessories\Accessibi
lity ARIZONA\Administrator
Accessories\Entertainment
ARIZONA\Administrator:Accessories\Entertain
ment ARIZONA\Administrator
Administrative Tools
ARIZONA\Administrator:Administrative Tools
ARIZONA\Administrator
QLogic Corporation ARIZONA\Administrator:QLogic
Corporation ARIZONA\Administrator
QLogic Corporation\SANblade Control VIX
ARIZONA\Administrator:QLogic
Corporation\SANblade Control VIX
ARIZONA\Administrator
Startup ARIZONA\Administrator:Startup
ARIZONA\Administrator

[Startup Programs]

Program Command User Name Location
desktop desktop.ini NT AUTHORITY\SYSTEM
Startup
desktop desktop.ini ARIZONA\Administrator
Startup
desktop desktop.ini .DEFAULT Startup
desktop desktop.ini All Users Common
Startup
Service Manager
c:\progra-1\microso-1\80\tools\bin\sqlmgr
.exe /n All Users Common Startup

[OLE Registration]

Object Local Server
Sound (OLE2) sndrec32.exe
Media Clip mplay32.exe
Video Clip mplay32.exe /avi
MIDI Sequence mplay32.exe /mid
Sound Not Available
Media Clip Not Available
WordPad Document "%programfiles%\windows
nt\accessories\wordpad.exe"
Windows Media Services DRM Storage object Not
Available
Bitmap Image mspaint.exe

[Windows Error Reporting]

Time Type Details

[Internet Settings]

[Internet Explorer]

[ Following are sub-categories of this main category
]

```

[Summary]

Item Value
 Version 6.0.3790.0
 Build 63790
 Application Path C:\Program Files\Internet Explorer
 Language English (United States)
 Active Printer Not Available

Cipher Strength 128-bit
 Content Advisor Disabled
 IEAK Install No

[File Versions]

File	Version	Size	Date	Path
actxprxy.dll	6.0.3790.0	95 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
advpack.dll	6.0.3790.0	94 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
asctrls.ocx	6.0.3790.0	90 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
browseic.dll	6.0.3790.0	62 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
browseui.dll	6.0.3790.0	1,033 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
cdfview.dll	6.0.3790.0	144 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
comctl32.dll	5.82.3790.0	561 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
dxtrans.dll	6.3.3790.0	198 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
dxtmsft.dll	6.3.3790.0	344 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
iecont.dll	<File Missing>	Not Available	Not Available	Not Available
iecontlc.dll	<File Missing>	Not Available	Not Available	Not Available
iedkcs32.dll	16.0.3790.0	300 KB	3/25/2003 7:00:00 AM	

File	Version	Size	Date	Path
iepeers.dll	6.0.3790.0	230 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
iesetup.dll	6.0.3790.0	59 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
ieuinit.inf	Not Available	20 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Not Available
iexplore.exe	6.0.3790.0	90 KB	3/25/2003 7:00:00 AM	C:\Program Files\Internet Explorer Microsoft Corporation
imgutil.dll	5.2.3790.0	35 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
inetcp1.cpl	6.0.3790.0	303 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
inetcp1c.dll	6.0.3790.0	109 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
inseng.dll	6.0.3790.0	72 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
mlang.dll	6.0.3790.0	570 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
msencode.dll	2002.10.4.0	112 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Not Available
mshta.exe	6.0.3790.0	26 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll	6.0.3790.0	2,848 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
mshtml.tlb	6.0.3790.0	1,319 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll	6.0.3790.0	444 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
mshtmler.dll	6.0.3790.0	55 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
msident.dll	6.0.3790.0	47 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation

msidntld.dll	6.0.3790.0	15 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
msieftpl.dll	6.0.3790.0	230 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
msrating.dll	6.0.3790.0	132 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
mstime.dll	6.0.3790.0	491 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
occache.dll	6.0.3790.0	89 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
proctexe.ocx	6.3.3790.0	78 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Intel Corporation
sendmail.dll	6.0.3790.0	52 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
shdoclc.dll	6.0.3790.0	589 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
shdocvw.dll	6.0.3790.0	1,361 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
shfolder.dll	6.0.3790.0	23 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
shlwapi.dll	6.0.3790.0	281 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
tdc.ocx	1.3.0.3130	58 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
url.dll	6.0.3790.0	36 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
urlmon.dll	6.0.3790.0	502 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
webcheck.dll	6.0.3790.0	262 KB	3/25/2003 7:00:00 AM	C:\WINDOWS\system32 Microsoft Corporation
wininet.dll	6.0.3790.0	609 KB	3/25/2003 7:00:00 AM	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: 10/13/04 14:26:45
 System Name: CL73
 [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 CL73
 System Manufacturer HP
 System Model ProLiant DL360 G3
 System Type X86-based PC
 Processor x86 Family 15 Model 2 Stepping 5
 GenuineIntel ~38092 Mhz
 Processor x86 Family 15 Model 2 Stepping 5
 GenuineIntel ~38092 Mhz
 BIOS Version/Date HP P31, 5/1/1904
 SMBIOS Version 2.3
 Windows Directory C:\WINNT
 System Directory C:\WINNT\System32
 Boot Device \Device\Harddisk0\Partition1
 Locale United States
 Hardware Abstraction Layer Version = "5.00.2195.2787"
 User Name Not Available
 Time Zone Central Daylight Time
 Total Physical Memory 1,024.00 MB
 Available Physical Memory 879.47 MB
 Total Virtual Memory 2.65 GB
 Available Virtual Memory 2.46 GB
 Page File Space 1.66 GB
 Page File C:\pagefile.sys

[Hardware Resources]

[Conflicts/Sharing]

Resource	Device	
I/O Port 0x00000000-0x00000CFF	PCI bus	
I/O Port 0x00000000-0x00000CFF	PCI bus	
I/O Port 0x00000000-0x00000CFF	Direct memory	access controller
I/O Port 0x000003C0-0x000003DF	PCI bus	
I/O Port 0x000003C0-0x000003DF	ATI	Technologies Inc. RAGE XL PCI
IRQ 7	Base System Device	

IRQ 7 Standard OpenHCD USB Host Controller

Memory Address 0xA0000-0xBFFFF PCI bus
 Memory Address 0xA0000-0xBFFFF ATI
 Technologies Inc. RAGE XL PCI

I/O Port 0x000003B0-0x000003BB PCI bus
 I/O Port 0x000003B0-0x000003BB ATI
 Technologies Inc. RAGE XL PCI

[DMA]

Resource	Device	Status
DMA 7	Direct memory access controller	OK
DMA 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	ATI Technologies Inc.	
RAGE XL PCI	OK	
0x000003C0-0x000003DF	PCI bus	OK
0x000003C0-0x000003DF	ATI Technologies Inc.	
RAGE XL PCI	OK	
0x00002400-0x000024FF	ATI Technologies Inc.	
RAGE XL PCI	OK	
0x00002800-0x000028FF	Compaq Smart Array 5i	
OK		
0x00001800-0x000018FF	Base System Device	OK
0x00002C00-0x00002CFF	Base System Device	OK
0x00000A79-0x00000A79	ISAPNP Read Data Port	
OK		
0x00000279-0x00000279	ISAPNP Read Data Port	
OK		
0x000002F4-0x000002F7	ISAPNP Read Data Port	
OK		
0x00000F50-0x00000F58	Motherboard resources	
OK		
0x00000408-0x0000040F	Motherboard resources	
OK		
0x00000092-0x00000092	Motherboard resources	
OK		
0x00000900-0x00000903	Motherboard resources	
OK		
0x00000910-0x00000911	Motherboard resources	
OK		
0x00000920-0x00000923	Motherboard resources	
OK		

0x00000930-0x00000937 Motherboard resources OK
 0x00000940-0x00000947 Motherboard resources OK
 0x00000950-0x00000957 Motherboard resources OK
 0x00000C06-0x00000C08 Motherboard resources OK
 0x00000C14-0x00000C14 Motherboard resources OK
 0x00000C49-0x00000C4A Motherboard resources OK
 0x00000C50-0x00000C52 Motherboard resources OK
 0x00000C6C-0x00000C6F Motherboard resources OK
 0x00000010-0x0000001F Motherboard resources OK
 0x00000230-0x00000233 Motherboard resources OK
 0x00000260-0x00000267 Motherboard resources OK
 0x000004D0-0x000004D1 Motherboard resources OK
 0x00000700-0x0000070F Motherboard resources OK
 0x00000800-0x0000081F Motherboard resources OK
 0x00000C80-0x00000C83 Motherboard resources OK
 0x00000CD4-0x00000CD7 Motherboard resources OK
 0x00000CF9-0x00000CF9 Motherboard resources OK
 0x00000020-0x00000021 Programmable interrupt controller OK
 0x000000A0-0x000000A1 Programmable interrupt controller OK
 0x00000C00-0x00000C01 Programmable interrupt controller OK
 0x00000040-0x00000043 System timer OK
 0x00000080-0x0000008F Direct memory access controller OK
 0x000000C0-0x000000DF Direct memory access controller OK
 0x0000040B-0x0000040B Direct memory access controller OK
 0x000004D6-0x000004D6 Direct memory access controller OK
 0x00000061-0x00000061 System speaker OK
 0x00000060-0x00000060 Standard 101/102-Key or Microsoft Natural PS/2 Keyboard OK
 0x00000064-0x00000064 Standard 101/102-Key or Microsoft Natural PS/2 Keyboard OK
 0x0000002E-0x0000002F Extended IO Bus OK
 0x00000220-0x00000223 Extended IO Bus OK
 0x00000240-0x0000025F Extended IO Bus OK

0x00000070-0x00000073 Extended IO Bus OK
 0x000003F8-0x000003FF Communications Port (COM1) OK
 0x000003F2-0x000003F5 Standard floppy disk controller OK
 0x000003F7-0x000003F7 Standard floppy disk controller OK
 0x00002000-0x0000200F Standard Dual Channel PCI IDE Controller OK
 0x000001F0-0x000001F7 Primary IDE Channel OK
 0x000003F6-0x000003F6 Primary IDE Channel OK
 0x00000170-0x00000177 Secondary IDE Channel OK
 0x00000376-0x00000376 Secondary IDE Channel OK
 [IRQs]
 Resource Device Status
 IRQ 9 Microsoft ACPI-Compliant System OK
 IRQ 31 Compaq Smart Array 5i OK
 IRQ 5 Base System Device OK
 IRQ 7 Base System Device OK
 IRQ 7 Standard OpenHCD USB 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 30 Compaq NC7781 Gigabit Server Adapter #2 OK
 IRQ 29 Compaq NC7781 Gigabit Server Adapter OK
 [Memory]
 Resource Device Status
 0xA0000-0xBFFFF PCI bus OK
 0xA0000-0xBFFFF ATI Technologies Inc. RAGE XL PCI OK
 0xF5D00000-0xF6FFFFFF PCI bus OK
 0xF6000000-0xF6FFFFFF ATI Technologies Inc. RAGE XL PCI OK
 0xF5FF0000-0xF5FF0FFF ATI Technologies Inc. RAGE XL PCI OK
 0xF5F80000-0xF5FBFFFF Compaq Smart Array 5i OK
 0xF5DF0000-0xF5DF3FFF Compaq Smart Array 5i OK
 0xF5F70000-0xF5F701FF Base System Device OK
 0xF5F60000-0xF5F607FF Base System Device OK
 0xF5F50000-0xF5F51FFF Base System Device OK

0xF5E80000-0xF5EFFFFF Base System Device OK
 0xF5E70000-0xF5E70FFF Standard OpenHCD USB Host Controller OK
 0xF7E00000-0xF7EFFFFF PCI bus OK
 0xF7EF0000-0xF7EFFFFF Compaq NC7781 Gigabit Server Adapter #2 OK
 0xF7F00000-0xF7F0FFFF PCI bus OK
 0xF7FF0000-0xF7FF0FFF Compaq NC7781 Gigabit Server Adapter OK
 [Components]
 [Multimedia]
 [Audio Codecs]
 CODEC Manufacturer Description Status File Version Size Creation Date
 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) 12/7/1999
 7:00 AM
 c:\winnt\system32\msg723.acm Microsoft Corporation C:\WINNT\System32\MSG723.ACM 4.4.3385 106.77 KB (109,328 bytes) 9/13/2002
 5:46 PM
 c:\winnt\system32\lhacm.acm Microsoft Corporation C:\WINNT\System32\LHACM.ACM 4.4.3385 33.27 KB (34,064 bytes) 9/13/2002
 5:46 PM
 c:\winnt\system32\tssoft32.acm DSP GROUP, INC. C:\WINNT\System32\TSSOFT32.ACM 1.01 9.27 KB (9,488 bytes) 12/7/1999 7:00 AM
 c:\winnt\system32\msgsm32.acm Microsoft Corporation C:\WINNT\System32\MSGSM32.ACM 5.00.2134.1 22.27 KB (22,800 bytes) 12/7/1999
 7:00 AM
 c:\winnt\system32\msg711.acm Microsoft Corporation C:\WINNT\System32\MSG711.ACM 5.00.2134.1 10.27 KB (10,512 bytes) 12/7/1999
 7:00 AM
 c:\winnt\system32\msadp32.acm Microsoft Corporation C:\WINNT\System32\MSADP32.ACM 5.00.2134.1 14.77 KB (15,120 bytes) 12/7/1999
 7:00 AM
 c:\winnt\system32\imaadp32.acm Microsoft Corporation C:\WINNT\System32\MAADP32.ACM

```

5.00.2134.1      16.27 KB (16,656 bytes)
12/7/1999 7:00 AM

[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)
12/7/1999 7:00 AM
c:\winnt\system32\msh263.drv Microsoft Corporation
OK
C:\WINNT\System32\MSH263.DRV 4.4.3385
252.27 KB (258,320 bytes) 9/13/2002
5:45 PM
c:\winnt\system32\msh261.drv Microsoft Corporation
OK
C:\WINNT\System32\MSH261.DRV 4.4.3385
163.77 KB (167,696 bytes) 9/13/2002
5:46 PM
c:\winnt\system32\msrle32.dll Microsoft Corporation
OK
C:\WINNT\System32\MSRLE32.DLL 5.00.2134.1
10.77 KB (11,024 bytes) 12/7/1999
7:00 AM
c:\winnt\system32\msvidc32.dll Microsoft
Corporation OK
C:\WINNT\System32\MSVIDC32.DLL
5.00.2134.1 27.27 KB (27,920 bytes)
12/7/1999 7:00 AM
c:\winnt\system32\ir32_32.dll Intel(R) Corporation
OK
C:\WINNT\System32\IR32_32.DLL Not Available
194.50 KB (199,168 bytes) 12/7/1999
7:00 AM
c:\winnt\system32\iccvld.dll Radius Inc.
OK C:\WINNT\System32\ICCVLD.DLL
1.10.0.6 108.00 KB (110,592 bytes)
12/7/1999 7:00 AM

[CD-ROM]

Item      Value
Drive      D:
Description      CD-ROM Drive
Media Loaded      No
Media Type      CD-ROM
Name      COMPAQ CRN-8245B
Manufacturer      (Standard CD-ROM drives)
Status      OK
Transfer Rate      Not Available
SCSI Target ID      0
PNP Device ID      IDE\CDROMCOMPAQ_CRN-
8245B_____2.19____\5&FB0C83D&0&0.0
.0
Driver      c:\winnt\system32\drivers\cdrom.sys
(5.00.2165.1, 26.73 KB (27,376 bytes), 12/7/1999 7:00
AM)

[Sound Device]

```

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Item      Value
[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      640 x 480 x 60 hertz
Bits/Pixel      16
Memory Address      0xF6000000-0xF6FFFFFF
I/O Port      0x00002400-0x000024FF
Memory Address      0xF5FF0000-0xF5FF0FFF
I/O Port      0x000003B0-0x000003BB
I/O Port      0x000003C0-0x000003DF
Memory Address      0xA0000-0xBFFFF
Driver      c:\winnt\system32\drivers\atimpab.sys
(5.00.2179.1, 69.95 KB (71,632 bytes), 9/13/2002 5:40
PM)

[Infrared]

Item      Value

[Input]

[Keyboard]

Item      Value
Description      Standard 101/102-Key or Microsoft
Natural PS/2 Keyboard
Name      Enhanced (101- or 102-key)
Layout      00000409
PNP Device ID      ACPI\PNP0303\4&35118DFF&0
Number of Function Keys      12
I/O Port      0x00000060-0x0000006F
I/O Port      0x00000064-0x00000064
IRQ Channel      IRQ 1
Driver      c:\winnt\system32\drivers\i8042prt.sys
(5.00.2195.2936, 45.64 KB (46,736 bytes), 12/7/1999
7:00 AM)

[Pointing Device]

Item      Value
Hardware Type      PS/2 Compatible Mouse
Number of Buttons      2
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:\winnt\system32\drivers\i8042prt.sys
(5.00.2195.2936, 45.64 KB (46,736 bytes), 12/7/1999
7:00 AM)

[Modem]

Item      Value

[Network]

[Adapter]

Item      Value
Name      [00000000] RAS Async Adapter
Adapter Type      Not Available
Product Type      RAS Async Adapter
Installed Yes
PNP Device ID      Not Available
Last Reset      10/13/2004 9:15 AM
Index      0
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      [00000001] WAN Miniport (L2TP)
Adapter Type      Not Available
Product Type      WAN Miniport (L2TP)
Installed Yes
PNP Device ID      ROOT\MS_L2TPMINIPORT\0000
Last Reset      10/13/2004 9:15 AM
Index      1
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:\winnt\system32\drivers\rasl2tp.sys
(5.00.2179.1, 49.61 KB (50,800 bytes), 12/7/1999 7:00
AM)

Name      [00000002] WAN Miniport (PPTP)
Adapter Type      Wide Area Network (WAN)
Product Type      WAN Miniport (PPTP)
Installed Yes
PNP Device ID      ROOT\MS_PPTPMINIPORT\0000
Last Reset      10/13/2004 9:15 AM
Index      2

```

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:\winnt\system32\drivers\rasptp.sys
 (5.00.2160.1, 46.73 KB (47,856 bytes), 12/7/1999 7:00 AM)

Name [00000003] Direct Parallel
 Adapter Type Not Available
 Product Type Direct Parallel
 Installed Yes
 PNP Device ID ROOT\MS_PTIMINIPOINT\0000
 Last Reset 10/13/2004 9:15 AM
 Index 3
 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:\winnt\system32\drivers\raspti.sys
 (5.00.2146.1, 16.48 KB (16,880 bytes), 12/7/1999 7:00 AM)

Name [00000004] WAN Miniport (IP)
 Adapter Type Not Available
 Product Type WAN Miniport (IP)
 Installed Yes
 PNP Device ID ROOT\MS_NDISWANIP\0000
 Last Reset 10/13/2004 9:15 AM
 Index 4
 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:\winnt\system32\drivers\ndiswan.sys
 (5.00.2195.2779, 87.98 KB (90,096 bytes), 12/7/1999 7:00 AM)

Name [00000005] Compaq NC7780 Gigabit Server
 Adapter
 Adapter Type Not Available
 Product Type Compaq NC7780 Gigabit Server
 Adapter
 Installed Yes
 PNP Device ID PCI\VEN_14E4&DEV_16A7&SUBSYS_00CB0E11&REV_0
 Last Reset 10/13/2004 9:15 AM
 Index 5
 Service Name q57w2k

IP Address 130.168.40.73
 IP Subnet 255.255.0.0
 Default IP Gateway Not Available
 DHCP Enabled Yes
 DHCP Server 130.168.253.2
 DHCP Lease Expires 9/16/2002 7:03 PM
 DHCP Lease Obtained 9/15/2002 7:03 PM
 MAC Address 00:0B:CD:37:00:C0

Name [00000006] Compaq NC7780 Gigabit Server
 Adapter
 Adapter Type Not Available
 Product Type Compaq NC7780 Gigabit Server
 Adapter
 Installed Yes
 PNP Device ID Not Available
 Last Reset 10/13/2004 9:15 AM
 Index 6
 Service Name q57w2k
 IP Address 130.172.11.73
 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:37:00:FD

Name [00000007] Compaq NC3123 Fast Ethernet NIC
 Adapter Type Not Available
 Product Type Compaq NC3123 Fast Ethernet NIC
 Installed Yes
 PNP Device ID Not Available
 Last Reset 10/13/2004 9:15 AM
 Index 7
 Service Name N100
 IP Address 130.172.11.73
 IP Subnet 255.255.0.0
 Default IP Gateway Not Available
 DHCP Enabled Yes
 DHCP Server 130.168.253.2
 DHCP Lease Expires 9/16/2002 3:58 PM
 DHCP Lease Obtained 9/15/2002 3:58 PM
 MAC Address 00:0B:CD:37:00:FD

Name [00000008] Compaq NC7781 Gigabit Server
 Adapter
 Adapter Type Ethernet 802.3
 Product Type Compaq NC7781 Gigabit Server
 Adapter
 Installed Yes
 PNP Device ID PCI\VEN_14E4&DEV_16A7&SUBSYS_00CB0E11&REV_0
 Last Reset 10/13/2004 9:15 AM
 Index 8
 Service Name q57w2k
 IP Address 130.172.11.73
 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:37:00:FD
 Memory Address 0xF7FF0000-0xF7FFFFFF
 IRQ Channel IRQ 29
 Driver c:\winnt\system32\drivers\q57w2k.sys
 (2.75.0.0, 75.95 KB (77,776 bytes), 9/13/2002 6:02 PM)

Name [00000009] Compaq NC7781 Gigabit Server
 Adapter
 Adapter Type Ethernet 802.3
 Product Type Compaq NC7781 Gigabit Server
 Adapter
 Installed Yes
 PNP Device ID PCI\VEN_14E4&DEV_16A7&SUBSYS_00CB0E11&REV_0
 Last Reset 10/13/2004 9:15 AM
 Index 9
 Service Name q57w2k
 IP Address 130.168.40.73
 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:37:00:C0
 Memory Address 0xF7EF0000-0xF7EFFFFF
 IRQ Channel IRQ 30
 Driver c:\winnt\system32\drivers\q57w2k.sys
 (2.75.0.0, 75.95 KB (77,776 bytes), 9/13/2002 6:02 PM)

[Protocol]

Item	Value
Name	MSAFD Tcpip [TCP/IP]
Connectionless Service	No
Guarantees Delivery	Yes
Guarantees Sequencing	Yes
Maximum Address Size	16 bytes
Maximum Message Size	0 bytes
Message Oriented	No
Minimum Address Size	16 bytes
Pseudo Stream Oriented	No
Supports Broadcasting	No
Supports Connect Data	No
Supports Disconnect Data	No
Supports Encryption	No
Supports Expedited Data	Yes
Supports Graceful Closing	Yes
Supports Guaranteed Bandwidth	No
Supports Multicasting	No

Name	MSAFD Tcpip [UDP/IP]
Connectionless Service	Yes
Guarantees Delivery	No
Guarantees Sequencing	No
Maximum Address Size	16 bytes

Maximum Message Size 63.93 KB (65,467 bytes)

Message Oriented Yes
 Minimum Address Size 16 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting Yes

Name RSVP UDP Service Provider
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 16 bytes
 Maximum Message Size 63.93 KB (65,467 bytes)

Message Oriented Yes
 Minimum Address Size 16 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption Yes
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting Yes

Name RSVP TCP Service Provider
 Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 16 bytes
 Maximum Message Size 0 bytes
 Message Oriented No
 Minimum Address Size 16 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption Yes
 Supports Expedited Data Yes
 Supports Graceful Closing Yes
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS
 [\Device\NetBT_Tcpip_{2D8AA674-9F13-43EE-9055-F9ECADD87F7F}] SEQUENCE 6
 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_{2D8AA674-9F13-43EE-9055-F9ECADD87F7F}] DATAGRAM 6
 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_{EFD5741D-3A14-456C-98EB-17ABC580A075}] SEQUENCE 5
 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_{EFD5741D-3A14-456C-98EB-17ABC580A075}] DATAGRAM 5
 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_{4249431A-469E-4735-A292-01AA526741FC}] SEQUENCE 4
 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_{4249431A-469E-4735-A292-01AA526741FC}] DATAGRAM 4
 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_{3B09DDB7-7EB8-4941-8121-52DC6359F5A6}] SEQUENCE 3
 Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)

Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No

Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS
 {\Device\NetBT_Tcpip_{3B09DDB7-7EB8-4941-8121-52DC6359F5A6}} DATAGRAM 3
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)

Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS
 {\Device\NetBT_Tcpip_{684FA660-D082-4A8C-AC8C-C9D449B21686}} 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_{684FA660-D082-4A8C-AC8C-C9D449B21686}} 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_{D90E04F2-3AD9-4F98-9464-751E106D7E6A}} 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_{D90E04F2-3AD9-4F98-9464-751E106D7E6A}} 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_{3F1BA297-E685-416B-82D7-70E771CC8745}} 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_{3F1BA297-E685-416B-82D7-70E771CC8745}} 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:\winnt\system32\winsock.dll
 Size 2.80 KB (2,864 bytes)
 Version 3.10
 File c:\winnt\system32\wsock32.dll
 Size 21.27 KB (21,776 bytes)
 Version 5.00.2195.2871

[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:\winnt\system32\drivers\serial.sys
(5.00.2195.2780, 60.95 KB (62,416 bytes), 12/7/1999
7:00 AM)

[Parallel]

Item Value

[Storage]

[Drives]

Item Value
Drive A:
Description 3 1/2 Inch Floppy Drive

Drive C:
Description Local Fixed Disk
Compressed No
File System NTFS
Size 33.91 GB (36,413,280,256 bytes)
Free Space 30.35 GB (32,590,008,320 bytes)

Volume Name
Volume Serial Number C8B488FA

Drive D:
Description CD-ROM Disc

[Disks]

Item Value
Description Disk drive
Manufacturer (Standard disk drives)

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```

Model COMPAQ LOGICAL VOLUME SCSI Disk Device
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk media
Partitions 1
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 2
SCSI Target ID 4
Sectors/Track 63
Size 33.91 GB (36,413,314,560 bytes)
Total Cylinders 4,427
Total Sectors 71,119,755
Total Tracks 1,128,885
Tracks/Cylinder 255
Partition Disk #0, Partition #0
Partition Size 33.91 GB (36,413,282,304 bytes)

Partition Starting Offset 32,256 bytes

[SCSI]

Item Value
Name Compaq Smart Array 5i
Manufacturer Compaq
Status OK
PNP Device ID
PCI\VEN_0E11&DEV_B178&SUBSYS_40800E11&REV_0
1\3&267A616A&0&20
Memory Address 0xF5F80000-0xF5FBFFFF
I/O Port 0x00002800-0x000028FF
Memory Address 0xF5DF0000-0xF5DF3FFF
IRQ Channel IRQ 31
Driver c:\winnt\system32\drivers\cpqcissm.sys
(5.40.2.0, 14.64 KB (14,992 bytes), 9/13/2002 12:15
PM)

[IDE]

Item Value
Name Standard Dual Channel PCI IDE Controller

Manufacturer (Standard IDE ATA/ATAPI
controllers)
Status OK
PNP Device ID
PCI\VEN_1166&DEV_0212&SUBSYS_02121166&REV_9
3\3&267A616A&0&79
I/O Port 0x0002000-0x000200F
Driver c:\winnt\system32\drivers\pciide.sys
(5.00.2195.2104, 3.02 KB (3,088 bytes), 12/7/1999
7:00 AM)

Name Primary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI
controllers)
Status OK
PNP Device ID
PCI\IDE\IDECHANNEL\4&1024D5C6&0&0

I/O Port 0x00001F0-0x00001F7
I/O Port 0x00003F6-0x00003F6
IRQ Channel IRQ 14

```

```

Driver c:\winnt\system32\drivers\atapi.sys
(5.00.2195.2247, 83.27 KB (85,264 bytes), 12/7/1999
7:00 AM)

Name Secondary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI
controllers)
Status OK
PNP Device ID
PCI\IDE\IDECHANNEL\4&1024D5C6&0&1

I/O Port 0x00000170-0x00000177
I/O Port 0x00000376-0x00000376
Driver c:\winnt\system32\drivers\atapi.sys
(5.00.2195.2247, 83.27 KB (85,264 bytes), 12/7/1999
7:00 AM)

[Printing]

Name Driver Port Name Server Name

[Problem Devices]

Device PNP Device ID Error Code
Base System Device
PCI\VEN_0E11&DEV_B203&SUBSYS_B2060E11&REV_0
1\3&267A616A&0&28 This device is disabled because
the firmware of the device did not give it the
required resources.
Base System Device
PCI\VEN_0E11&DEV_B204&SUBSYS_B2060E11&REV_0
1\3&267A616A&0&2A This device is disabled because
the firmware of the device did not give it the
required resources.

[USB]

Device PNP Device ID
Standard OpenHCD USB Host Controller
PCI\VEN_1166&DEV_0220&SUBSYS_02201166&REV_0
5\3&267A616A&0&7A
USB Root Hub USB\ROOT_HUB\4&AF5358C&0

[Software Environment]

[System Drivers]

Name Description File Type
Started Start Mode State
Status Error Control Accept Pause
Accept Stop
abiosdsk Abiosdsk Not Available Kernel Driver
No Disabled Stopped OK
Ignore No No
abp480n5 abp480n5 Not Available Kernel Driver
No Disabled Stopped OK
Normal No No
acpi Microsoft ACPI Driver
c:\winnt\system32\drivers\acpi.sys
Kernel Driver Yes Boot
Running OK Normal No Yes

```

acpiec	ACPIEC					
	c:\winnt\system32\drivers\acpiec.sys					
	Kernel Driver	No	Disabled			
	Stopped	OK	Normal	No	No	
adpu160m	adpu160m	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
afd	AFD Networking Support Environment					
	c:\winnt\system32\drivers\afd.sys					
	Kernel Driver	Yes	Auto			
	Running	OK	Normal	No	Yes	
ahal54x	Ahal54x	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
aic116x	aic116x	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
aic78u2	aic78u2	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
aic78xx	aic78xx	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
alkernel	Altiris Kernel Driver					
	c:\winnt\system32\drivers\alkernel.sys					
	Kernel Driver	Yes	Manual			
	Running	OK	Normal	No	Yes	
ami0nt	ami0nt	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
amsint	amsint	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
asc	asc	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
asc3350p	asc3350p	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
asc3550	asc3550	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
asyncmac	RAS Asynchronous Media Driver					
	c:\winnt\system32\drivers\asyncmac.sys					
	Kernel Driver	No	Manual			
	Stopped	OK	Normal	No	No	
atapi	Standard IDE/ESDI Hard Disk Controller					
	c:\winnt\system32\drivers\atapi.sys					
	Kernel Driver	Yes	Boot			
	Running	OK	Normal	No	Yes	
atdisk	Atdisk	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Ignore	No	No			
atirage3	atirage3					
	c:\winnt\system32\drivers\atimpab.sys					
	Kernel Driver	Yes	Manual			
	Running	OK	Ignore	No	Yes	

atmarpc	ATM ARP Client Protocol					
	c:\winnt\system32\drivers\atmarpc.sys					
	Kernel Driver	No	Manual			
	Stopped	OK	Normal	No	No	
audstub	Audio Stub Driver					
	c:\winnt\system32\drivers\audstub.sys					
	Kernel Driver	Yes	Manual			
	Running	OK	Normal	No	Yes	
beep	Beep					
	c:\winnt\system32\drivers\beep.sys					
	Kernel Driver	Yes	System			
	Running	OK	Normal	No	Yes	
buslogic	BusLogic	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
cd20xrnt	cd20xrnt	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
cdaudio	Cdaudio					
	c:\winnt\system32\drivers\cdaudio.sys					
	Kernel Driver	No	System			
	Stopped	OK	Ignore	No	No	
cdfs	Cdfs					
	c:\winnt\system32\drivers\cdfs.sys					
	File System Driver	Yes	Disabled			
	Running	OK	Normal	No	Yes	
cdrom	CD-ROM Driver					
	c:\winnt\system32\drivers\cdrom.sys					
	Kernel Driver	Yes	System			
	Running	OK	Normal	No	Yes	
changer	Changer	Not Available		Kernel Driver		
		System	Stopped	OK		
	Ignore	No	No			
cpqarray	Cpqarray	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
cpqarray2	Cpqarray2	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
cpqcissm	cpqcissm					
	c:\winnt\system32\drivers\cpqcissm.sys					
	Kernel Driver	Yes	Boot			
	Running	OK	Normal	No	Yes	
cpqfcalm	cpqfcalm	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
cpqfws2e	cpqfws2e	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
dac960nt	dac960nt	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
deckzpsx	deckzpsx	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			

dfsdriver	DfsDriver	c:\winnt\system32\drivers\dfs.sys				
	File System Driver	Yes	Boot			
	Running	OK	Normal	No	Yes	
disk	Disk Driver					
	c:\winnt\system32\drivers\disk.sys					
	Kernel Driver	Yes	Boot			
	Running	OK	Normal	No	Yes	
diskperf	Diskperf					
	c:\winnt\system32\drivers\diskperf.sys					
	Kernel Driver	Yes	Boot			
	Running	OK	Normal	No	Yes	
dmboot	dmboot					
	c:\winnt\system32\drivers\dmboot.sys					
	Kernel Driver	No	Disabled			
	Stopped	OK	Normal	No	No	
dmio	Logical Disk Manager Driver					
	c:\winnt\system32\drivers\dmio.sys					
	Kernel Driver	Yes	Boot			
	Running	OK	Normal	No	Yes	
dmload	dmload					
	c:\winnt\system32\drivers\dmload.sys					
	Kernel Driver	Yes	Boot			
	Running	OK	Normal	No	Yes	
efs	EFS	c:\winnt\system32\drivers\efs.sys				
	File System Driver	Yes	Disabled			
	Running	OK	Normal	No	Yes	
fastfat	Fastfat					
	c:\winnt\system32\drivers\fastfat.sys					
	File System Driver	Yes	Disabled			
	Running	OK	Normal	No	Yes	
fd16_700	Fd16_700	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
fdc	Floppy Disk Controller Driver					
	c:\winnt\system32\drivers\fdc.sys					
	Kernel Driver	Yes	Manual			
	Running	OK	Normal	No	Yes	
fips	Fips					
	c:\winnt\system32\drivers\fips.sys					
	Kernel Driver	Yes	Auto			
	Running	OK	Normal	No	Yes	
fireport	fireport	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
flashpnt	flashpnt	Not Available		Kernel Driver		
		Disabled	Stopped	OK		
	Normal	No	No			
flpydisk	Floppy Disk Driver					
	c:\winnt\system32\drivers\flpydisk.sys					
	Kernel Driver	Yes	Manual			
	Running	OK	Normal	No	Yes	

ftdisk	Volume Manager Driver c:\winnt\system32\drivers\ftdisk.sys Kernel Driver Yes Boot Running OK Normal No Yes
gpc	Generic Packet Classifier c:\winnt\system32\drivers\msgpc.sys Kernel Driver Yes Manual Running OK Normal No Yes
i8042prt	i8042 Keyboard and PS/2 Mouse Port Driver c:\winnt\system32\drivers\i8042prt.sys Kernel Driver Yes System Running OK Normal No Yes
ini910u	ini910u Not Available Kernel Driver No Disabled Stopped OK Normal No No
intellide	IntelIde Not Available Kernel Driver No Disabled Stopped OK Normal No No
ipfilterdriver	IP Traffic Filter Driver c:\winnt\system32\drivers\ipfltdrv.sys Kernel Driver No Manual Stopped OK Normal No No
ipinip	IP in IP Tunnel Driver c:\winnt\system32\drivers\ipinip.sys Kernel Driver No Manual Stopped OK Normal No No
ipnat	IP Network Address Translator c:\winnt\system32\drivers\ipnat.sys Kernel Driver No Manual Stopped OK Normal No No
ipsec	IPSEC driver c:\winnt\system32\drivers\ipsec.sys Kernel Driver Yes Manual 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:\winnt\system32\drivers\isapnp.sys Kernel Driver Yes Boot Running OK Critical No Yes
kbdclass	Keyboard Class Driver c:\winnt\system32\drivers\kbdclass.sys Kernel Driver Yes System Running OK Normal No Yes
ksecdd	KSecDD c:\winnt\system32\drivers\ksecdd.sys Kernel Driver Yes Boot Running OK Normal No Yes
lbrtfdc	lbrtfdc Not Available Kernel Driver No System Stopped OK Ignore No No

lp6nds35	lp6nds35 Not Available Kernel Driver No Disabled Stopped OK Normal No No
mnmd	mnmd c:\winnt\system32\drivers\mnmd.sys Kernel Driver Yes System Running OK Ignore No Yes
modem	Modem c:\winnt\system32\drivers\modem.sys Kernel Driver No Manual Stopped OK Ignore No No
mouclass	Mouse Class Driver c:\winnt\system32\drivers\mouclass.sys Kernel Driver Yes System Running OK Normal No Yes
mountmgr	MountMgr c:\winnt\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
mrxsmb	MRXSMB c:\winnt\system32\drivers\mrxsmb.sys File System Driver Yes System Running OK Normal No Yes
msfs	Msfs c:\winnt\system32\drivers\msfs.sys File System Driver Yes System Running OK Normal No Yes
mksrsv	Microsoft Streaming Service Proxy c:\winnt\system32\drivers\mksrsv.sys Kernel Driver No Manual Stopped OK Normal No No
mspclock	Microsoft Streaming Clock Proxy c:\winnt\system32\drivers\mspclock.sys Kernel Driver No Manual Stopped OK Normal No No
mspqm	Microsoft Streaming Quality Manager Proxy c:\winnt\system32\drivers\mspqm.sys Kernel Driver No Manual Stopped OK Normal No No
mup	Mup c:\winnt\system32\drivers\mup.sys File System Driver Yes Boot Running OK Normal No Yes
n100	Compaq Ethernet or Fast Ethernet NIC NT Driver c:\winnt\system32\drivers\n100nt5.sys Kernel Driver No Manual Stopped OK Normal No No
ncrc710	Nrc710 Not Available Kernel Driver No Disabled Stopped OK Normal No No

ndis	NDIS System Driver c:\winnt\system32\drivers\ndis.sys Kernel Driver Yes Boot Running OK Normal No Yes
ndistapi	Remote Access NDIS TAPI Driver c:\winnt\system32\drivers\ndistapi.sys Kernel Driver Yes Manual Running OK Normal No Yes
ndiswan	Remote Access NDIS WAN Driver c:\winnt\system32\drivers\ndiswan.sys Kernel Driver Yes Manual Running OK Normal No Yes
ndproxy	NDIS Proxy c:\winnt\system32\drivers\ndproxy.sys Kernel Driver Yes Manual Running OK Normal No Yes
netbios	NetBIOS Interface c:\winnt\system32\drivers\netbios.sys File System Driver Yes System Running OK Normal No Yes
netbt	NetBios over Tcpip c:\winnt\system32\drivers\netbt.sys Kernel Driver Yes System Running OK Normal No Yes
netdetect	NetDetect c:\winnt\system32\drivers\netdetect.sys Kernel Driver No Manual Stopped OK Normal No No
npfs	Npfs c:\winnt\system32\drivers\npfs.sys File System Driver Yes System Running OK Normal No Yes
ntfs	Ntfs c:\winnt\system32\drivers\ntfs.sys File System Driver Yes Disabled Running OK Normal No Yes
null	Null c:\winnt\system32\drivers\null.sys Kernel Driver Yes System Running OK Normal No Yes
nwlkflt	IPX Traffic Filter Driver c:\winnt\system32\drivers\nwlkflt.sys Kernel Driver No Manual Stopped OK Normal No No
nwlkfwd	IPX Traffic Forwarder Driver c:\winnt\system32\drivers\nwlkfwd.sys Kernel Driver No Manual Stopped OK Normal No No
openhci	Microsoft USB Open Host Controller Driver c:\winnt\system32\drivers\openhci.sys Kernel Driver Yes Manual

	Running	OK	Normal	No	Yes		g57w2k	Compaq NC7781 Gigabit Server Adapter c:\winnt\system32\drivers\g57w2k.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No	Yes		serial	Serial port driver c:\winnt\system32\drivers\serial.sys	Kernel Driver	Yes	System	Running	OK	Ignore	No	Yes					
parallel	Parallel						ql1080	ql1080	Not Available	Kernel Driver									sfloppy	Sfloppy c:\winnt\system32\drivers\sfloppy.sys	Kernel Driver	No	System	Stopped	OK	Ignore	No	No				
	Kernel Driver	No	Auto				ql10wnt	ql10wnt	Not Available	Kernel Driver									sglfb	sglfb	Not Available	Kernel Driver										
	Stopped	OK	Ignore	No	No		ql11240	ql11240	Not Available	Kernel Driver									simbad	Simbad	Not Available	Kernel Driver										
parport	Parport						ql2100	ql2100	Not Available	Kernel Driver									sparrow	Sparrow	Not Available	Kernel Driver										
	Kernel Driver	No	Auto				rasacd	Remote Access Auto Connection Driver c:\winnt\system32\drivers\rasacd.sys	Kernel Driver	Yes	System	Running	OK	Normal	No	Yes			spud	Special Purpose Utility Driver c:\winnt\system32\drivers\spud.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No	Yes				
	Stopped	OK	Ignore	No	No		rasl2tp	WAN Miniport (L2TP) c:\winnt\system32\drivers\rasl2tp.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No	Yes			srv	Srv c:\winnt\system32\drivers\srv.sys	File System Driver	Yes	Manual	Running	OK	Normal	No	Yes				
partmgr	PartMgr						raspti	Direct Parallel c:\winnt\system32\drivers\raspti.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No	Yes			swenum	Software Bus Driver c:\winnt\system32\drivers\swenum.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No	Yes				
	Kernel Driver	Yes	Boot				rca	Microsoft Streaming Network Raw Channel Access c:\winnt\system32\drivers\rca.sys	Kernel Driver	No	Manual	Stopped	OK	Normal	No	No			symc810	symc810	Not Available	Kernel Driver										
	Running	OK	Ignore	No	Yes		rdbss	Rdbss c:\winnt\system32\drivers\rdbss.sys	File System Driver	Yes	System	Running	OK	Normal	No	Yes			symc8xx	symc8xx	Not Available	Kernel Driver										
parvdm	ParVdm						rdpdr	Terminal Server Device Redirector Driver c:\winnt\system32\drivers\rdpdr.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No	Yes			sym_hi	sym_hi	Not Available	Kernel Driver										
	Kernel Driver	No	Auto				rdpwd	RDPWD c:\winnt\system32\drivers\rdpwd.sys	Kernel Driver	Yes	Manual	Running	OK	Ignore	No	Yes			tcpip	TCP/IP Protocol Driver c:\winnt\system32\drivers\tcpip.sys	Kernel Driver	Yes	System	Running	OK	Normal	No	Yes				
	Stopped	OK	Ignore	No	No		redbook	Digital CD Audio Playback Filter Driver c:\winnt\system32\drivers\redbook.sys	Kernel Driver	No	System	Stopped	OK	Normal	No	No			tdasync	TDASync c:\winnt\system32\drivers\tdasync.sys	Kernel Driver	No	Manual	Stopped	OK	Ignore	No	No				
pci	PCI Bus Driver c:\winnt\system32\drivers\pci.sys	Kernel Driver	Yes	Boot			serenum	Serenum Filter Driver c:\winnt\system32\drivers\serenum.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No	Yes			tdipx	TDIPX c:\winnt\system32\drivers\tdipx.sys	Kernel Driver	No	Manual	Stopped	OK	Ignore	No	No				
	Running	OK	Critical	No	Yes													tdnetb	TDNETB c:\winnt\system32\drivers\tdnetb.sys	Kernel Driver	No	Manual	Stopped	OK	Ignore	No	No					
pcidump	PCIDump	Not Available	Kernel Driver																													
	No	System	Stopped	OK																												
	Ignore	No	No																													
pciide	PCIIde																															
	Kernel Driver	Yes	Boot																													
	Running	OK	Normal	No	Yes																											
pcmcia	Pcmcia																															
	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																													
pdiframe	PDRFRAME	Not Available	Kernel Driver																													
	No	Manual	Stopped	OK																												
	Ignore	No	No																													
pptpminiport	WAN Miniport (PPTP) c:\winnt\system32\drivers\rasppptp.sys	Kernel Driver	Yes	Manual																												
	Running	OK	Normal	No	Yes																											
ptilink	Direct Parallel Link Driver c:\winnt\system32\drivers\ptilink.sys	Kernel Driver	Yes	Manual																												
	Running	OK	Normal	No	Yes																											

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tdpipe  TDPIPE
c:\winnt\system32\drivers\tdpipe.sys
Kernel Driver No Manual
Stopped OK Ignore No No

tdspcx  TDSPCX
c:\winnt\system32\drivers\tdspcx.sys
Kernel Driver No Manual
Stopped OK Ignore No No

tdtcp   TDTCPC
c:\winnt\system32\drivers\tdtcp.sys
Kernel Driver Yes Manual
Running OK Ignore No Yes

termdd  Terminal Device Driver
c:\winnt\system32\drivers\termdd.sys
Kernel Driver Yes Auto
Running OK Normal No Yes

tga     tga Not Available Kernel Driver
No System Stopped OK
Ignore No No

udfs    Udfs
c:\winnt\system32\drivers\udfs.sys
File System Driver No Disabled
Stopped OK Normal No No

ultra66 ultra66 Not Available Kernel Driver
No Disabled Stopped OK
Normal No No

update  Microcode Update Driver
c:\winnt\system32\drivers\update.sys
Kernel Driver Yes Manual
Running OK Normal No Yes

usbhub  Microsoft USB Standard Hub Driver
c:\winnt\system32\drivers\usbhub.sys
Kernel Driver Yes Manual
Running OK Normal No Yes

vgasave VgaSave c:\winnt\system32\drivers\vga.sys
Kernel Driver Yes System
Running OK Ignore No Yes

wanarp  Remote Access IP ARP Driver
c:\winnt\system32\drivers\wanarp.sys
Kernel Driver Yes Manual
Running OK Normal No Yes

wdica   WDICA Not Available Kernel Driver
No Manual Stopped OK
Ignore No No

[Signed Drivers]

Device Name Signed Device Class
Driver Version Driver Date
Manufacturer INF Name Driver Name
Device ID

[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 5, GenuineIntel <SYSTEM>
PROCESSOR_REVISION 0205 <SYSTEM>
NUMBER_OF_PROCESSORS 2 <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
CL73\Administrator
TMP %USERPROFILE%\Local Settings\Temp
CL73\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 Not Available 8 8 0
1413120 Not Available Not Available
Not Available Not Available
smss.exe c:\winnt\system32\smss.exe 184 11
204800 1413120 10/13/2004 2:15 PM
5.00.2195.2901 44.27 KB (45,328 bytes)
12/7/1999 7:00 AM
csrss.exe c:\winnt\system32\csrss.exe 212 13
204800 1413120 10/13/2004 2:15 PM
5.00.2195.2581 5.27 KB (5,392 bytes)
9/13/2002 6:09 PM
winlogon.exe c:\winnt\system32\winlogon.exe
208 13 204800 1413120
10/13/2004 2:15 PM 5.00.2195.2953

```

```

173.77 KB (177,936 bytes) 12/7/1999
7:00 AM
services.exe c:\winnt\system32\services.exe
264 9 204800 1413120
10/13/2004 2:15 PM 5.00.2195.2780
86.77 KB (88,848 bytes) 12/7/1999
7:00 AM
lsass.exe c:\winnt\system32\lsass.exe 276 9
204800 1413120 10/13/2004 2:15 PM
5.00.2195.2964 32.77 KB (33,552 bytes)
12/7/1999 7:00 AM
termsrv.exe c:\winnt\system32\termsrv.exe 380
10 204800 1413120 10/13/2004
2:15 PM 5.00.2195.2342 137.27 KB (140,560
bytes) 9/13/2002 6:09 PM
aclient.exe c:\program
files\altiris\aclient\aclient.exe 476 8
204800 1413120 10/13/2004 2:15 PM
5.6.124 3.83 MB (4,018,252 bytes)
6/5/2003 1:55 PM
regsvcs.exe c:\winnt\system32\regsvcs.exe 508
8 204800 1413120 10/13/2004
2:15 PM 5.00.2195.2104 65.27 KB (66,832 bytes)
9/13/2002 6:09 PM
rsys.exe c:\benchcraft\rsys.exe 524 8
204800 1413120 10/13/2004 2:15 PM Not
Available 32.00 KB (32,768 bytes) 9/13/2002
6:30 PM
svchost.exe c:\winnt\system32\svchost.exe 548
8 204800 1413120 10/13/2004
2:15 PM 5.00.2134.1 7.77 KB (7,952 bytes)
12/7/1999 7:00 AM
svchost.exe c:\winnt\system32\svchost.exe 528
8 204800 1413120 10/13/2004
2:15 PM 5.00.2134.1 7.77 KB (7,952 bytes)
12/7/1999 7:00 AM
mstask.exe c:\winnt\system32\mstask.exe 676
8 204800 1413120 10/13/2004
2:15 PM 4.71.2195.1 115.27 KB (118,032
bytes) 9/13/2002 6:09 PM
winmgmt.exe c:\winnt\system32\wbem\winmgmt.exe 696
8 204800 1413120 10/13/2004
2:15 PM 1.50.1085.0029 192.08 KB (196,685
bytes) 9/13/2002 6:09 PM
inetinfo.exe c:\winnt\system32\inetinfo.exe 732
8 204800 1413120 10/13/2004
2:15 PM 5.00.0984 14.27 KB (14,608 bytes)
9/13/2002 6:10 PM
dfssvc.exe c:\winnt\system32\dfssvc.exe 160
8 204800 1413120 10/13/2004
2:15 PM 5.00.2195.2841 88.27 KB (90,384 bytes)
9/13/2002 6:09 PM
svchost.exe c:\winnt\system32\svchost.exe 988
8 204800 1413120 10/13/2004
2:16 PM 5.00.2134.1 7.77 KB (7,952 bytes)
12/7/1999 7:00 AM

[Loaded Modules]

Name Version Size File Date Manufacturer
Path

```

smss 5.00.2195.2901 44.27 KB (45,328 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\smss.exe

ntdll 5.00.2195.2779 478.77 KB (490,256
bytes) 5/4/2001 12:05 PM Microsoft Corporation
c:\winnt\system32\ntdll.dll

sfcfiles 5.00.2195.2967 948.27 KB (971,024
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\sfcfiles.dll

csrss 5.00.2195.2581 5.27 KB (5,392 bytes)
9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\csrss.exe

csrssrv 5.00.2195.2581 33.77 KB (34,576 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\csrssrv.dll

basesrv 5.00.2195.2581 40.77 KB (41,744 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\basesrv.dll

winsrv 5.00.2195.2797 246.27 KB (252,176
bytes) 11/30/1999 5:39 PM Microsoft Corporation
c:\winnt\system32\winsrv.dll

user32 5.00.2195.2821 392.77 KB (402,192
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\user32.dll

kernel32 5.00.2195.2778 714.77 KB (731,920
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\kernel32.dll

gdi32 5.00.2195.2778 228.77 KB (234,256
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\gdi32.dll

winlogon 5.00.2195.2953 173.77 KB (177,936
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\winlogon.exe

msvcrt 6.10.8924.0 284.05 KB (290,869
bytes) 5/4/2001 12:05 PM Microsoft Corporation
c:\winnt\system32\msvcrt.dll

advapi32 5.00.2195.2867 351.77 KB (360,208
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\advapi32.dll

rpcrt4 5.00.2195.2832 437.27 KB (447,760
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\rpcrt4.dll

userenv 5.00.2195.2780 361.77 KB (370,448
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\userenv.dll

nddeapi 5.00.2137.1 15.27 KB (15,632 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\nddeapi.dll

sfc 5.00.2195.2896 92.11 KB (94,320 bytes)
9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\sfc.dll

secur32 5.00.2195.2862 46.77 KB (47,888 bytes)
9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\secur32.dll

profmap 5.00.2181.1 29.27 KB (29,968 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\profmap.dll

netapi32 5.00.2195.2808 303.77 KB (311,056
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\netapi32.dll

netrap 5.00.2134.1 11.27 KB (11,536 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\netrap.dll

samlib 5.00.2195.2780 49.77 KB (50,960 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\samlib.dll

ws2_32 5.00.2195.2780 67.77 KB (69,392 bytes)
9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\ws2_32.dll

ws2help 5.00.2134.1 17.77 KB (18,192 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\ws2help.dll

wldap32 5.00.2195.2797 125.27 KB (128,272
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\wldap32.dll

dnsapi 5.00.2195.2785 130.77 KB (133,904
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\dnsapi.dll

wssock32 5.00.2195.2871 21.27 KB (21,776 bytes)
9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\wssock32.dll

winsta 5.00.2195.2386 36.77 KB (37,648 bytes)
9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\winsta.dll

winmm 5.00.2161.1 184.77 KB (189,200
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\winmm.dll

setupapi 5.00.2195.2663 555.77 KB (569,104
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\setupapi.dll

comctl32 5.81 537.77 KB (550,672 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\comctl32.dll

msgina 5.00.2195.2779 324.27 KB (332,048
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\msgina.dll

shell32 5.00.3315.2902 2.25 MB (2,359,056
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\shell32.dll

shlwapi 5.00.3315.1000 282.77 KB (289,552
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\shlwapi.dll

wintrust 5.131.2195.2779 162.27 KB (166,160
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\wintrust.dll

crypt32 5.131.2195.2833 451.27 KB (462,096
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\crypt32.dll

msasn1 5.00.2134.1 51.27 KB (52,496 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\msasn1.dll

imagehlp 5.00.2195.2778 125.77 KB (128,784
bytes) 5/4/2001 12:05 PM Microsoft Corporation
c:\winnt\system32\imagehlp.dll

ole32 5.00.2195.2887 969.77 KB (993,040
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\ole32.dll

mscat32 5.131.2134.1 7.77 KB (7,952 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\mscat32.dll

rsaenh 5.00.2195.2228 130.77 KB (133,904
bytes) 9/13/2002 6:10 PM Microsoft Corporation
c:\winnt\system32\rsaenh.dll

version 5.00.2134.1 15.77 KB (16,144 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\version.dll

lz32 5.00.2134.1 9.77 KB (10,000 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\lz32.dll

cscdll 5.00.2195.2401 98.27 KB (100,624
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\cscdll.dll

wlnotify 5.00.2195.2780 53.77 KB (55,056 bytes)
9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\wlnotify.dll

winscard 5.00.2134.1 77.27 KB (79,120 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\winscard.dll

winspool 5.00.2195.2780 109.77 KB (112,400
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\winspool.drv

msafd 5.00.2195.2779 106.77 KB (109,328
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\msafd.dll

wshtcpip 5.00.2195.2104 17.27 KB (17,680 bytes)
9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\wshtcpip.dll

iphlpapi 5.00.2173.2 67.77 KB (69,392 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\iphlpapi.dll

icmp 5.00.2134.1 7.27 KB (7,440 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\icmp.dll

mprapi 5.00.2181.1 79.27 KB (81,168 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\mprapi.dll

oleaut32 2.40.4517 612.27 KB (626,960 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\oleaut32.dll

activeds 5.00.2195.2778 174.77 KB (178,960
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\activeds.dll

adslsdp 5.00.2195.2842 127.27 KB (130,320
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\adslsdp.dll

rtutils 5.00.2168.1 43.77 KB (44,816 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\rtutils.dll

rasapi32 5.00.2195.2671 189.77 KB (194,320
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\rasapi32.dll

rasman 5.00.2195.2780 54.77 KB (56,080 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\rasman.dll

tapi32 5.00.2182.1 123.27 KB (126,224
bytes) 12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\tapi32.dll

dhcpcsvc 5.00.2195.2778 88.77 KB (90,896 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\dhcpcsvc.dll

clbcatq 2000.2.3471.1 496.77 KB (508,688
bytes) 9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\clbcatq.dll

rnr20 5.00.2195.2871 35.77 KB (36,624 bytes)
9/13/2002 6:09 PM Microsoft Corporation
c:\winnt\system32\rnr20.dll

winrnr 5.00.2160.1 18.77 KB (19,216 bytes)
12/7/1999 7:00 AM Microsoft Corporation
c:\winnt\system32\winrnr.dll

rasadhlp 5.00.2168.1 7.27 KB (7,440 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\rasadhlp.dll
 ntdsapi 5.00.2195.2661 55.77 KB (57,104 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\ntdsapi.dll
 msv1_0 5.00.2195.2900 111.77 KB (114,448
 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\msv1_0.dll
 cryptnet 5.131.2157.1 41.77 KB (42,768 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\cryptnet.dll
 wininet 5.00.3315.1000 456.77 KB (467,728
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\wininet.dll
 services 5.00.2195.2780 86.77 KB (88,848 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\services.exe
 umpnpgmr 5.00.2182.1 86.27 KB (88,336 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\umpnpgmr.dll
 scesrv 5.00.2195.2780 226.27 KB (231,696
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\scesrv.dll
 eventlog 5.00.2178.1 43.77 KB (44,816 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\eventlog.dll
 lmhsvc 5.00.2195.2778 9.77 KB (10,000 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\lmhsvc.dll
 dmserver 2195.2778.297.3 11.77 KB (12,048 bytes)
 9/13/2002 6:09 PM VERITAS Software Corp.
 c:\winnt\system32\dmserver.dll
 cfgmgr32 5.00.2134.1 16.77 KB (17,168 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\cfgmgr32.dll
 srvsvc 5.00.2195.2904 79.27 KB (81,168 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\srvsvc.dll
 wkssvc 5.00.2195.2780 95.27 KB (97,552 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\wkssvc.dll
 cryptdll 5.00.2135.1 41.27 KB (42,256 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\cryptdll.dll
 seclogon 5.00.2135.1 15.77 KB (16,144 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\seclogon.dll
 cryptsvc 5.00.2181.1 61.77 KB (63,248 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\cryptsvc.dll
 psbase 5.00.2195.2779 111.77 KB (114,448
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\psbase.dll
 trkwks 5.00.2166.1 88.77 KB (90,896 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\trkwks.dll
 browser 5.00.2195.2778 48.27 KB (49,424 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\browser.dll
 wmicore 5.00.2195.2842 72.27 KB (74,000 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\wmicore.dll

lsass 5.00.2195.2964 32.77 KB (33,552 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\lsass.exe
 lsasrv 5.00.2195.2964 492.77 KB (504,592
 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\lsasrv.dll
 samsrv 5.00.2195.2918 369.77 KB (378,640
 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\samsrv.dll
 msprivs 5.00.2154.1 41.50 KB (42,496 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\msprivs.dll
 kerberos 5.00.2195.2913 198.77 KB (203,536
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\kerberos.dll
 netlogon 5.00.2195.2865 357.77 KB (366,352
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\netlogon.dll
 schannel 5.00.2195.2922 138.27 KB (141,584
 bytes)
 5/4/2001 12:05 PM Microsoft Corporation
 c:\winnt\system32\schannel.dll
 rsabase 5.00.2195.2228 128.27 KB (131,344
 bytes)
 5/4/2001 12:05 PM Microsoft Corporation
 c:\winnt\system32\rsabase.dll
 mpr 5.00.2195.2779 53.27 KB (54,544 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\mpr.dll
 rassfm 5.00.2195.2671 21.27 KB (21,776 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\rassfm.dll
 sfmapi 5.00.2134.1 38.77 KB (39,696 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\sfmapi.dll
 kdcsvc 5.00.2195.2878 137.77 KB (141,072
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\kdcsvc.dll
 ntlsa 5.00.2195.2899 990.77 KB (1,014,544
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\ntlsa.dll
 ntdsatq 5.00.2195.2878 31.27 KB (32,016 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\ntdsatq.dll
 mssock 5.00.2195.2871 62.77 KB (64,272 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\mssock.dll
 esent 6.0.3940.13 1.08 MB (1,135,376
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\esent.dll
 certcli 5.00.2195.2778 130.77 KB (133,904
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\certcli.dll
 atl 3.00.8449 57.56 KB (58,938 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\atl.dll
 scecli 5.00.2195.2780 105.27 KB (107,792
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\scecli.dll
 polagent 5.00.2183.1 108.27 KB (110,864
 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\polagent.dll
 mfc42u 6.00.8665.0 972.05 KB (995,384
 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\mfc42u.dll

oakley 5.00.2195.2785 378.77 KB (387,856
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\oakley.dll
 dsenh 5.00.2195.2228 142.77 KB (146,192
 bytes)
 9/13/2002 6:10 PM Microsoft Corporation
 c:\winnt\system32\dsenh.dll
 termsrv 5.00.2195.2342 137.27 KB (140,560
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\termsrv.exe
 regapi 5.00.2155.1 35.27 KB (36,112 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\regapi.dll
 icaapi 5.00.2134.1 118.77 KB (121,616
 bytes)
 9/13/2002 5:45 PM Microsoft Corporation
 c:\winnt\system32\icaapi.dll
 mstlsapi 5.00.2181.1 24.77 KB (25,360 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\mstlsapi.dll
 ntlslapi 5.00.2134.1 6.77 KB (6,928 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\ntslapi.dll
 rdpsvc 5.00.2180.1 94.40 KB (96,664 bytes)
 9/13/2002 5:45 PM Microsoft Corporation
 c:\winnt\system32\rdpsvc.dll
 aclient 5.6.124 3.83 MB (4,018,252 bytes)
 6/5/2003 1:55 PM Altiris, Inc.
 c:\program
 files\altiris\aclient\aclient.exe
 comdlg32 5.00.3103.1000 236.77 KB (242,448
 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\comdlg32.dll
 riched32 5.00.2134.1 3.77 KB (3,856 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\riched32.dll
 riched20 5.30.23.1205 421.27 KB (431,376
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\riched20.dll
 psapi 5.00.2134.1 28.27 KB (28,944 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\psapi.dll
 ntmarta 5.00.2195.2862 98.77 KB (101,136
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\ntmarta.dll
 regsvc 5.00.2195.2104 65.27 KB (66,832 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\regsvc.exe
 rsys Not Available 32.00 KB (32,768 bytes)
 9/13/2002 6:30 PM Not Available
 c:\benchcraft\rsys.exe
 svchost 5.00.2134.1 7.77 KB (7,952 bytes)
 12/7/1999 7:00 AM Microsoft Corporation
 c:\winnt\system32\svchost.exe
 rpcss 5.00.2195.2815 231.27 KB (236,816
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\rpcss.dll
 es 2000.2.3471.1 222.27 KB (227,600
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\es.dll
 txfaux 2000.2.3471.1 374.27 KB (383,248
 bytes)
 9/13/2002 6:09 PM Microsoft Corporation
 c:\winnt\system32\txfaux.dll

ntmssvc 5.00.2195.2779 391.27 KB (400,656 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\ntmssvc.dll

sens 5.00.2163.1 36.77 KB (37,648 bytes) 12/7/1999 7:00 AM Microsoft Corporation c:\winnt\system32\sens.dll

ntmsdba 5.00.2195.2779 167.27 KB (171,280 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\ntmsdba.dll

rasmans 5.00.2195.2728 147.27 KB (150,800 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\rasmans.dll

netcfgx 5.00.2195.2228 534.77 KB (547,600 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\netcfgx.dll

rasdlg 5.00.2195.2671 514.27 KB (526,608 bytes) 12/7/1999 7:00 AM Microsoft Corporation c:\winnt\system32\rasdlg.dll

mstask 4.71.2195.1 115.27 KB (118,032 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\mstask.exe

msidle 5.00.2920.0000 6.27 KB (6,416 bytes) 12/7/1999 7:00 AM Microsoft Corporation c:\winnt\system32\msidle.dll

winmgmt 1.50.1085.0029 192.08 KB (196,685 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\wbem\winmgmt.exe

wbemcomn 1.50.1085.0021 692.07 KB (708,675 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\wbem\wbemcomn.dll

wbemcore 1.50.1085.0036 628.07 KB (643,140 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\wbem\wbemcore.dll

fastprox 1.50.1085.0037 144.08 KB (147,536 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\wbem\fastprox.dll

wbemess 1.50.1085.0039 364.07 KB (372,804 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\wbem\wbemess.dll

wbemsvc 1.50.1085.0007 40.07 KB (41,036 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\wbem\wbemsvc.dll

cimwin32 1.50.1085.0038 1.02 MB (1,073,232 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\wbem\cimwin32.dll

framedyn 1.50.1085.0000 164.05 KB (167,992 bytes) 12/7/1999 7:00 AM Microsoft Corporation c:\winnt\system32\wbem\framedyn.dll

perfos 5.00.2155.1 21.27 KB (21,776 bytes) 12/7/1999 7:00 AM Microsoft Corporation c:\winnt\system32\perfos.dll

wmi 5.00.2191.1 6.27 KB (6,416 bytes) 12/7/1999 7:00 AM Microsoft Corporation c:\winnt\system32\wmi.dll

ntevt 1.50.1085.0000 192.06 KB (196,669 bytes) 12/7/1999 7:00 AM Microsoft Corporation c:\winnt\system32\wbem\ntevt.dll

provthrd 1.50.1085.0000 68.07 KB (69,708 bytes) 9/13/2002 5:45 PM Microsoft Corporation c:\winnt\system32\wbem\provthrd.dll

inetinfo 5.00.0984.14.27 KB (14,608 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetinfo.exe

iisrtrl 5.00.0984.119.77 KB (122,640 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\iisrtrl.dll

rpcpref 5.00.0984.4.27 KB (4,368 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\rpcpref.dll

iisadmin 5.00.0984.15.27 KB (15,632 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\iisadmin.dll

coadmin 5.00.0984.39.27 KB (40,208 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\coadmin.dll

admwprox 5.00.0984.31.77 KB (32,528 bytes) 9/13/2002 5:45 PM Microsoft Corporation c:\winnt\system32\admwprox.dll

nsepm 5.00.0984.43.27 KB (44,304 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\nsepm.dll

iismap 5.00.0984.55.77 KB (57,104 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\iismap.dll

metadata 5.00.0984.68.77 KB (70,416 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\metadata.dll

wamreg 5.00.0984.45.77 KB (46,864 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\wamreg.dll

admexs 5.00.0984.27.77 KB (28,432 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\admexs.dll

svcext 5.00.0984.39.77 KB (40,720 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\svcext.dll

security 5.00.2154.1 5.77 KB (5,904 bytes) 12/7/1999 7:00 AM Microsoft Corporation c:\winnt\system32\security.dll

w3svc 5.00.0984.343.27 KB (351,504 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\w3svc.dll

infocomm 5.00.0984.238.27 KB (243,984 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\infocomm.dll

isatq 5.00.0984.60.27 KB (61,712 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\isatq.dll

iisfecnv 5.00.0984.7.27 KB (7,440 bytes) 9/13/2002 5:45 PM Microsoft Corporation c:\winnt\system32\inetsrv\iisfecnv.dll

inetsloc 5.00.0984.21.27 KB (20,752 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\inetsloc.dll

lonsint 5.00.0984.11.77 KB (12,048 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\lonsint.dll

iscomlog 5.00.0984.24.77 KB (25,360 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\iscomlog.dll

sspifilt 5.00.0984.43.27 KB (44,304 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\sspifilt.dll

compfilt 5.00.0984.22.77 KB (23,312 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\compfilt.dll

gzip 5.00.0984.30.27 KB (30,992 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\gzip.dll

md5filt 5.00.0984.32.77 KB (33,552 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\md5filt.dll

fpexedll 4.0.2.4324 20.06 KB (20,541 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\program files\common files\microsoft shared\web server extensions\40\bin\fpexedll.dll

httpext 0.9.3940.21 435.27 KB (445,712 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\httpext.dll

wshnetbs 5.00.2134.1 7.77 KB (7,952 bytes) 12/7/1999 7:00 AM Microsoft Corporation c:\winnt\system32\wshnetbs.dll

iislog 5.00.0984.75.27 KB (77,072 bytes) 9/13/2002 6:10 PM Microsoft Corporation c:\winnt\system32\inetsrv\iislog.dll

dfssvc 5.00.2195.2841 88.27 KB (90,384 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\dfssvc.exe

clusapi 5.00.2195.2104 54.27 KB (55,568 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\clusapi.dll

resutils 5.00.2195.2787 39.77 KB (40,720 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\resutils.dll

tapisrv 5.00.2195.2955 169.27 KB (173,328 bytes) 9/13/2002 6:09 PM Microsoft Corporation c:\winnt\system32\tapisrv.dll

[Services]

Display Name	Name	State	Start Mode
	Service Type	Path	Error Control
	Start Name	Tag ID	
Altiris Client Service	Client Service	Running	
	Auto	Own Process	c:\program
files\altiris\aclient\aclient.exe -service	Normal	LocalSystem	0
Alerter	Alerter	Stopped	Manual Share Process
	c:\winnt\system32\services.exe	Normal	LocalSystem
Application Management	AppMgmt	Stopped	
	Manual	Share Process	
	c:\winnt\system32\services.exe	Normal	LocalSystem
Computer Browser	Browser	Running	Auto
	Share Process		
	c:\winnt\system32\services.exe	Normal	LocalSystem
Indexing Service	cisvc	Stopped	Manual
	Share Process		
	c:\winnt\system32\cisvc.exe	Normal	LocalSystem
ClipBook	ClipSrv	Stopped	Manual
	Own Process		
	c:\winnt\system32\clipsrv.exe	Normal	LocalSystem
Distributed File System	Dfs	Running	
	Auto	Own Process	
	c:\winnt\system32\dfssvc.exe	Normal	LocalSystem
			0

```

DHCP Client Dhcp Running Auto
Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
Logical Disk Manager Administrative Service
dmadmin Stopped Manual Share Process
c:\winnt\system32\dmadmin.exe /com
Normal LocalSystem 0
Logical Disk Manager dmserver Running
Auto Share Process
c:\winnt\system32\services.exe
Normal LocalSystem 0
DNS Client Dnscache Stopped Manual
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\ismerv.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
Stopped Manual 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 Stopped Manual 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
Stopped Manual 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 Stopped 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 Command Service RMSYS Running
Auto Own Process

```

```

c:\benchcraft\rsys.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 Stopped 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
Print Spooler Spooler Stopped Manual 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 Running Manual Share Process
c:\winnt\system32\svchost.exe -k tapisrv
Normal LocalSystem 0
Terminal Services TermService Running
Auto 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\inet\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
Default User
Accessories\Accessibility Default
User:Accessories\Accessibility Default User
Accessories\Entertainment Default
User:Accessories\Entertainment Default User
Accessories\System Tools Default
User:Accessories\System Tools Default User
Startup Default User:Startup Default User

Accessories All Users:Accessories All
Users
Accessories\Communications All
Users:Accessories\Communications All Users
Accessories\Entertainment All
Users:Accessories\Entertainment All Users
Accessories\Microsoft Script Debugger All
Users:Accessories\Microsoft Script Debugger All
Users
Accessories\System Tools All
Users:Accessories\System Tools All Users
Administrative Tools All
Users:Administrative Tools All Users
Microsoft SQL Server All Users:Microsoft SQL
Server All Users
Startup All Users:Startup All Users
Tardis All Users:Tardis All Users
Accessories CL73\Administrator:Accessories
CL73\Administrator

```

```

Accessories\Accessibility
CL73\Administrator:Accessories\Accessibilit
y CL73\Administrator
Accessories\Entertainment
CL73\Administrator:Accessories\Entertainmen
t CL73\Administrator
Accessories\System Tools
CL73\Administrator:Accessories\System Tools
CL73\Administrator
Administrative Tools
CL73\Administrator:Administrative Tools
CL73\Administrator
Startup CL73\Administrator:Startup
CL73\Administrator

[Startup Programs]

Program Command User Name Location
Tardis 2000 c:\progra-1\tardis-1.4\tardis.exe
All Users Common Startup
ACIntUsr c:\program
files\altiris\aclint\aclintusr.exe All Users
ion\Run HKLM\SOFTWARE\Microsoft\Windows\CurrentVers

[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\kodaking.exe"
WordPad Document "%programfiles%\windows
nt\accessories\wordpad.exe"
Windows Media Services DRM Storage object Not
Available
Bitmap Image mspaint.exe

[Windows Error Reporting]

Time Type Details

[Internet Settings]

[Internet Explorer]

[ Following are sub-categories of this main category ]
[Summary]

Item Value
No summary information available

[File Versions]

File Version Size Date Path
Company

```

```

advapi32.dll 5.0.2195.2867 352 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
advpack.dll 5.0.3103.1000 87 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
browselc.dll 5.0.3315.2846 35 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
browsei.dll 5.0.3315.2846 789 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
ckcnv.exe 5.0.2189.1 9 KB 12/7/1999
8:00:00 AM C:\WINNT\system32 Microsoft
Corporation
comctl32.dll 5.81.3103.1000 538 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
crypt32.dll 5.131.2195.2833 451 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
ehnsig.dll <File Missing> Not Available
Not Available Not Available Not
Available
iemigrat.dll <File Missing> Not Available
Not Available Not Available Not
Available
iesetup.dll 5.0.3103.1000 57 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
iexplore.exe 5.0.2920.0 59 KB
12/7/1999 8:00:00 AM C:\Program
Files\Internet Explorer Microsoft Corporation
imagehlp.dll 5.0.2195.2778 126 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
imghelp.dll <File Missing> Not Available
Not Available Not Available Not
Available
inseng.dll 5.0.3103.1000 72 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
jobexec.dll 5.0.0.1 47 KB 12/7/1999
8:00:00 AM C:\WINNT\system32 Microsoft
Corporation
jscript.dll 5.1.0.5907 476 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation
jsproxy.dll 5.0.2920.0 13 KB
12/7/1999 8:00:00 AM
C:\WINNT\system32 Microsoft Corporation

```

```

msahtml.dll <File Missing> Not Available
Available Not Available Not Available Not
mshtml.dll 5.0.3315.2870 2,290 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
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
Available Not Available Not Available Not
rsasig.dll <File Missing> Not Available
Available Not Available Not Available Not
schannel.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
Available Not Available Not Available Not
shdocvw.dll 5.0.3315.2879 1,078 KB
5/4/2001 12:05:02 PM
C:\WINNT\system32 Microsoft Corporation

shell32.dll 5.0.3315.2902 2,304 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
8:00:00 AM 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
8:00:00 AM 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 8:00:00 AM
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
Available Not Available Not Available Not
Available

[Connectivity]

Item Value
Connection Preference Never dial

LAN Settings

AutoConfigProxy Not Available
AutoProxyDetectMode Enabled
AutoConfigURL
Proxy Disabled
ProxyServer
ProxyOverride

[Cache]

[ Following are sub-categories of this main category ]
[Summary]

Item Value

```

```

Page Refresh Type Automatic
Temporary Internet Files Folder C:\Documents
and Settings\Default User\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

```

Microsoft SQL Server 2000 Installation Procedures

```

Microsoft SQL Server 2000 Installation Procedures
Type of installation: custom
During the custom installation, use the default
settings for all except the following two areas:
Services accounts:
SQL Server - local system account
SQL Server Agent - local system account

```

Set the sort order/collation as SQL Collation binary
sort order/Latin_1_General

Microsoft COM Component Configuration Parameters

The component services tool in Windows 2000 was used to change the queue settings for the TPC-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 60. Delivery threads were set under the TPC-C key in the registry. The construction string was Dummy String

Appendix D: 60-Day Space

TPC-C 60 Day Space Requirements

Warehouses	9,120						TpmC			
Table	Rows	Data KB	Index KB	Extra 5% KB	8hr Space	Total Space KB	MSSQL_misc_fg	MSSQL_cs_fg		
Warehouse	9,160	984	64	52		1100	1100			
District	91,600	10,184	80	513		10777	10777			
Customer	274,800,000	199,854,552	11,916,872	10,588,571		222359995		222359995		
History	274,800,000	15,266,680	56		3,109,759	15266736		18376495		
New_order	82,440,000	1,303,400	2,992	65,320		1371712		1371712		
Orders	274,800,000	8,422,992	17,160		4,916,490	8440152		13356642		
Order_line	2,747,990,462	171,749,408	363,512		38,210,436	172112920		210323356		
Item	100,000	9,528	80	480		10088		10088		
Stock	916,000,000	293,120,000	547,496	14,683,375		308350871		308350871		
Total		689,737,728	12,848,312	25,338,312	46,236,686	727,924,352		243,450,171	530,710,866	
	MB						files=	7	7	
Dynamic Space	190,858	Sum of Data for Order, Orderline and History								
Static Space	520,005	Sum of Data+Index+5%-Dynamic Space								
Free Space	na	Total Allocated Spac - (Dynamic + Static Space)								
Daily Growth	38,543	(Dynamic Space/(M*62.5))/tpmc								
Daily Spread	-	(Free Space -1.5*(Daily Growth)) Zero Assumed								
60 Day Space MB	2,632,615						size=	5,120,000	11,776,000	
60 Day Space GB	2,766.23	GB					Total=	35,840,000	82,432,000	
Log Size	270,000.00	MB					8K blocks	286,720,000	659,456,000	
KB Per New Order	4.73	KB						OK	OK	
8 hr log MB	255,332	MB								
8 hr log GB	249.3478	GB								
Space Usage										
60 Day_Space DB	2,766.23	GB Needed	Disks Measured	GB Priced	Disk Size	Formatted Size				
			294	9972.48	36.4GB	33.920				
				0.00						
				0.00						
Total DB				9972.48						
8-hr log + mirror	498.6957		8	542.72	72.8GB	67.84				
OS, Swap	3		1	16.90	18.2GB	16.900				
Total Storage	3,267.92	GB		10,532.10	GB					

tpmC | 115,110.39

	Data Before KB	Index Before KB	Data After KB	Index After KB	Data Grow KB	Index Grow KB	Total Grow KB	KB/New-Order	8-Hr Growth KB	8-Hr Growth MB
History	15,266,680	56	16,644,976	240	1,378,296	184	1,378,480	0.0563	3,109,758.74	3,036.87
Order	8,422,992	17,160	10,585,560	33,952	2,162,568	16,792	2,179,360	0.0890	4,916,490.49	4,801.26
Order-Line	171,749,408	363,512	188,325,192	725,480	16,575,784	361,968	16,937,752	0.6816	38,210,436.38	37,314.88
										45,153.01

sum(*) Before	sum(*) After	Num New-
274,891,600	299,383,898	24,492,298

Grow MB	113182.51
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After MB	116686.15
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Before MB	3503.63
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KB/New-Order	4.7321	8-Hr Growth MB	255,332.18	8-Hr Growth GB	249.35
	4,845,6239	bytes			

270000	1.2976425	43.217091
Database tpcc log used (%)		

Appendix E: *Third Party Letters*

October 15, 2004

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

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
810-00846	SQL Server 2000 Enterprise Edition <i>Per Processor Licensing</i> <i>Discount Schedule: Open Program - Level C</i> <i>Unit Price reflects a 17% discount from the retail unit price of \$19,999.</i>	\$16,541	4	\$66,164
C11-00821	Windows 2000 Server <i>Server License Only - No CALs</i> <i>Discount Schedule: No Level</i> <i>Unit Price reflects a 8% discount from the retail unit price of \$799.</i>	\$738	6	\$4,428
P72-00264	Windows Server 2003, Enterprise Edition <i>Server License Only - No CALs</i> <i>Discount Schedule: No Level</i> <i>Unit Price reflects a 40% discount from the retail unit price of \$3,999.</i>	\$2,399	1	\$2,399
254-00170	Visual C++ Standard Edition <i>Discount Schedule: No Discounts Applied</i>	\$109	1	\$109
	Microsoft Problem Resolution Services <i>Professional Support</i> <i>(1 Incident)</i>	\$245	1	\$245

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: PCjoel0415101108

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