



TPC Benchmark™ C Full Disclosure Report

**Unisys ES7000
Enterprise Server (8P)**

using

**Microsoft SQL Server 2005
Enterprise x64 Edition**

on

**Microsoft Windows Server 2003,
Datacenter x64 Edition**

**First Edition
February 22, 2006**

First Edition – February 2006

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All performance data contained in this report was obtained in a rigorously controlled environment, and therefore results obtained in other operating environments may vary significantly. Unisys Corporation and Microsoft Corporation do not warrant or represent that a user can or will achieve similar performance expressed in transactions per minute (tpmC) or normalized price/performance (USD/tpmC). No warranty of system performance or price/performance is expressed or implied in this report.

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Overview

This report documents the methodology and results of the TPC Benchmark C (TPC-C) conducted on the Unisys Corporation ES7000 Enterprise Server (8P). The operating system on the server was Microsoft Windows Server 2003, Datacenter x64 Edition. The DBMS used was Microsoft SQL Server 2005 Enterprise x64 Edition. The operating system on the clients was Microsoft Windows 2003 Server. The clients ran Microsoft's Internet Information Server 6.0 (IIS) and COM+.

TPC Benchmark 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 required by the benchmark specification.

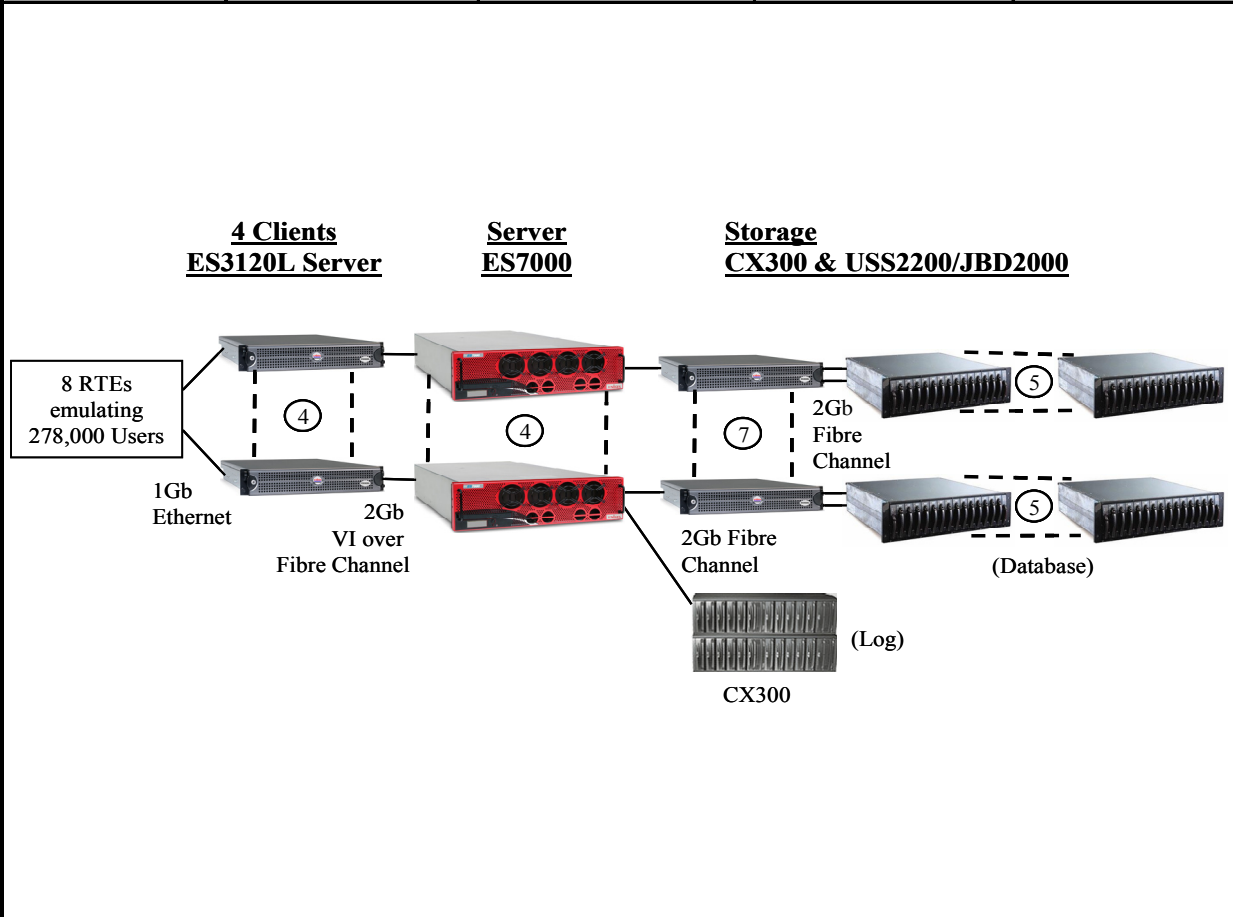
Executive Summary

The following pages contain the executive summary results of the benchmark.

Auditor

Lorna Livingtree of Performance Metrics, Inc. verified compliance with the relevant TPC specification and audited the benchmark configuration, environment, and methodology used to produce and validate the test results, along with the pricing model used to calculate the cost per tpmC.

UNISYS	ES7000		TPC-C Rev. 5.6	
	Enterprise Server (8P)		Report Date February 22, 2006	
Total System Cost	TPC-C Throughput	Price Performance	Availability Date	
\$1,138,016 USD	347,854 tpmC	\$3.28 USD/tpmC	May 5, 2006	
Processors/ Cores/Threads	Database Manager	Operating System	Other Software	Number of Users
8/16/32 Database 8/8/16 Clients	Microsoft SQL Server 2005 Enterprise x64 Edition	Microsoft Windows Server 2003, Datacenter x64 Edition	Windows Server 2003 w/ IIS 6.0 and COM+ Microsoft Visual C++	278,000



System Components	Qty.	Server	Qty.	Each Client (4)
Processors/Cores/Threads Cache	8/16/32	Intel® Dual-Core Xeon® Processo 7041 3.0GHz, 2x2MB Lvl 2 Cach	2/2/4	Intel® 64-bit Xeon® Processor 3.4GHz, 2MB Lvl 2 Cache
Memory	1	256GB (4GB DIMMs)	1	2GB (1GB DIMMs)
Disk Controllers	8 1	PCI Fibre Channel PCI SAS RAID (boot)	1	Inbuilt SCSI
Disk Drives	490 20 2	36GB FC 15K rpm 146GB FC 10K rpm 36GB SAS 10K rpm (boot media)	1	36GB SCSI 15K rpm
Total Storage		19.0 TB		34.3 GB
Other	2 2 1	Inbuilt 1Gb 2-Port NIC (0 used) PCI VI-over-FC Controller IDE DVD-R/RW; CD-R/RW	2 1 1	Inbuilt 1Gb NIC (1 used) PCI VI-over-FC Controller IDE CD-ROM



ES7000 Enterprise Server (8P)

TPC-C Rev. 5.6
TPC Pricing 1.0.1

Report Date
February 22, 2006

Description	Part Number	Price Source	Unit Price	Qty.	Extended Price	3-yr.Maint. Price
Server Hardware:						
SYS: ES7000/one, 8x 7041/3.0GHz, 256GB Mem. eService Processor & Server Mngmt SW	ES7112083-600	Included		1	\$417,050	\$3,096
CTRL: Fibre Channel HBA, 2-Port, 64-bit PCI	FC76222-P64		\$2,850	8	\$22,800	
CTRL: VI-over-FC HBA, 2Gb 2-Port, 64-bit PCI	FCH752323-PCX		\$2,138	2	\$4,276	
KIT: 1x RAID Controller, 1x 36GB Disk (boot media)	FAC7600361-IDK		\$618	1	\$618	
DISK: 1x 36GB 10Krpm SAS (boot media)	HDF4036100-X25		\$428	1	\$428	
I/F: Monitor, 17-inch LCD, Kybrd, Mse & Cable	ES70006-UIF		\$546	1	\$546	
Subtotal					\$445,718	\$3,096
Server Software:						
O/S: Windows 2003 Srvr, DC x64 Edtn, 8P, 1yr Lsub.	WNX6408-TSP		\$17,556	1	\$17,556	\$10,908
O/S: Windows 2003 Server, DC Lmtd Sbscrptn, 1yr.	DUS200308-TSP		\$1,596	2	\$3,192	
APP: Microsoft SQL Server 2005 Enterprise x64 Edtn.	810-03134		\$23,432	8	\$187,456	** Inc. below
SRVC: Microsoft Problem Resolution Services **			\$245	1	\$245	\$245
Subtotal					\$208,204	\$11,153
Storage Hardware:						
DISK: 3.0TB Pkg, 84x 36GB, 15Krpm *	JBD203615-P84		\$36,086	6	\$216,516	Spared
DISK: 1.0TB Pkg, 28x 36GB, 15Krpm *	JBD203615-P28		\$16,641	1	\$16,641	Spared
DISK: 36GB Drive, 15Krpm, 2Gb FC, SCA *	JBD203615-2F		\$646	7	\$4,522	Spared
DISK: 146GB, 10Krpm, 2Gb FC	CXR14610-2GF		\$1,406	20	\$28,120	
CTRL: DPE, 2 RAID Cntrl, 1GB Cache ea., 0 Disk	CX300-DPE		\$13,300	1	\$13,300	\$1,260
RCK: DAE Storage Enclosure, FC 2Gb Optical I/F	CXP2-FD		\$5,890	1	\$5,890	
SYS MGT: Storage, Navisphere Manager	CXN300-WRK		\$2,138	1	\$2,138	\$900
RCK: Storage Enclosure, FC 2Gb Copper/Copper I/F	JBD2002-SA		\$3,197	21	\$67,137	\$10,584
RCK: Storage Enclosure, FC 2Gb Optical/Copper I/F	JBD2011-SA		\$3,413	14	\$47,782	\$7,560
CTRL: Symmetric Disk Virt. 2xCPU, 512MB Mem	RMM20103-ELS		\$4,559	7	\$31,913	\$8,484
CTRL: USS, Fibre Channel HBA, 1-Port, 64-bit PCI	RMM20701-TAR		\$1,805	21	\$37,905	\$10,080
APP: Unisys Storage Sentinel 2200 SDV Software	USS10300-SW		\$5,472	1	\$5,472	\$4,068
APP: Storage Sentinel SDV SW, 20TB License	USS20320-LIC		\$37,484	1	\$37,484	
CBL: FC, Copper, HSDC2 Conn's, 0.3m	JBD20003-CCL		\$53	21	\$1,113	
CBL: FC, Optical, LC->LC Conn's, 10m *	GCFAZLL20		\$38	25	\$950	Spared
RCK: Rack Mount Kit, Disk Enclosure	JBD2001-RMK		\$190	35	\$6,650	
SWTCH: KVM 16-Port PS/2-Cat5	KVM9163101-SWC		\$1,805	1	\$1,805	
I/F: Monitor, 17-inch LCD, Kybrd, Mse & Cable	ES70004-UIF		\$665	1	\$665	
ADPTR: Cat5 to PS/2	KVM9001301-CNV		\$114	11	\$1,254	
CBL: Ethernet, Cat5e, RJ45 Conn's, 10ft *	GCPO888910		\$2	14	\$28	Spared
PWR: Distribution Strip, 9-Plug, 220V	SFR9-PWR		\$162	15	\$2,430	
CBL: Power, U.S. (Domestic), C20 - L6-20P	USE1936-LC6		\$86	15	\$1,290	
CAB: 36U x 19" x 41" Open Front Cabinet	HRT361941-OFT		\$1,425	5	\$7,125	
Subtotal					\$538,130	\$42,936
Client Hardware:						
SYS: ES3120L w/ 1x 3.4GHz Proc., 0MB Mem	ESL312002-340		\$1,859	4	\$7,436	\$2,592
PROC: 1x 3.4GHz Intel Xeon/2MB Cache	CPL3120342-2MB		\$1,063	4	\$4,252	
MEM: 2GB, 2x 1GB DIMMs DDR SDRAM	DIM3120021-2GB		\$864	4	\$3,456	
DISK: 36GB 15Krpm U320 3.5 Internal	HDP36115-DC4		\$332	4	\$1,328	
RCK: ES3120L HSBP Modulal & SCSI Cable	HBP3120101-MOD		\$264	4	\$1,056	
RCK: ES3120L Universal Rack Kit	ESL3120-VRL		\$331	4	\$1,324	
CTRL: VI-over-FC HBA, 2Gb 2-Port, 64-bit PCI	FCH752323-PCX		\$2,138	4	\$8,552	
CDR: 24x Slimline CD-ROM & Cable	CDR12243-AIS		\$41	4	\$164	
Subtotal					\$27,568	\$2,592
Client Software:						
O/S: Windows Server 2003, Standard Edition	P73-00295		\$719	4	\$2,876	** Inc. above
ACC: Microsoft Visual C++ Standard Edition	254-00170		\$109	1	\$109	** Inc. above
Subtotal					\$2,985	\$0
Computer Resolutions Inc. 14% Volume Cash Discount (Ext.Price where Price Source=1)						
Total USD					\$1,078,239	\$59,777

Notes:

1. * 10% or minimum 2 spares are added in place of onsite service.
2. HW & SW maintenance at 24 x 7 w/ 4 hr. max. response time for spares.
3. Price Source: 1 = CRI Product Price, Unisys Maintenance Price
2 = Microsoft 3 = GoCables

3-Year Cost of Ownership: \$1,138,016 USD
tpmC Rating: 347,854
\$ / tpmC: \$3.28 USD

Benchmark results and test methodology audited by Lorna Livingtree of Performance Metrics, Inc.

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 assumption 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 benchmarks 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.

Numerical Quantities Summary

MQTh, Computed Maximum Qualified Throughput: 347,854 tpmC

Response Times, in seconds

Transaction	90th %ile	Average	Maximum
New-Order	0.45	0.30	8.05
Payment	0.43	0.28	5.02
Order-Status	0.45	0.30	8.88
Delivery (interactive portion)	0.36	0.23	1.48
Delivery (deferred portion)	0.19	0.14	3.64
Stock-Level	0.67	0.44	1.84
Menu	0.36	0.23	2.52

Response time delay added for emulated components, in seconds

RT Response time	0.1
Menu Response time	0.1

Transaction Mix, in percent of total transactions

New Order	44.93%
Payment	43.02%
Order-Status	4.00%
Delivery (interactive portion)	4.00%
Stock-Level	4.01%

Keying / Think Time Times, in seconds

Transaction	Minimum	Average	Maximum
New Order	18.01 / 0.00	18.01 / 12.03	18.03 / 120.31
Payment	3.01 / 0.00	3.01 / 12.03	3.03 / 120.31
Order-Status	2.01 / 0.00	2.01 / 10.08	2.03 / 100.70
Delivery (interactive portion)	2.01 / 0.00	2.01 / 5.06	2.03 / 50.61
Stock-Level	2.01 / 0.00	2.01 / 5.06	2.03 / 50.61

Test Duration

Ramp up time	56 minutes
Measurement interval (M)	120 minutes
Transactions (all types) completed during measurement interval	92,890,358
Ramp-down time	10 minutes

Checkpointing:

Number of checkpoints	4
Checkpoint interval	30 minutes

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Document Structure

The TPC Benchmark C Standard Specification requires test sponsors to publish, submit to the TPC, and make available to the public, a full disclosure report for any result to be considered compliant with the specification. The required contents of the full disclosure report are specified in Clause 8.

This report is submitted to satisfy the specification's requirement for full disclosure. It documents the compliance of the benchmark implementation and execution reported for the Unisys ES7000 Enterprise Server (8P) using Microsoft SQL Server 2005 Enterprise x64 Edition on Microsoft Windows Server 2003, Datacenter x64 Edition.

TPC Benchmark C Overview

The Transaction Processing Performance Council (TPC) developed The TPC Benchmark™ C Standard Specification Revision 5.6. It is the intent of the TPC to develop a suite of benchmarks to measure the performance of computer systems executing a wide range of applications. Unisys and Microsoft Corporations are active participants in the TPC to define and develop such a suite of benchmarks.

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.

Despite the fact that this benchmark offers a rich environment that emulates many OLTP environments, 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.

0.1. Order and Titles

The order and titles of sections in the Test Sponsor's Full Disclosure report must correspond with the order and titles of sections from the TPC-C standard specification (i.e., this document). The intent is to make it as easy as possible for readers to compare and contrast material in different Full Disclosure reports. (8.1.1.1)

The order and titles of the sections in this report correspond with those from the TPC-C standard specification.

0.2. Executive Summary Statement

The TPC Executive Summary Statement must be included near the beginning of the Full Disclosure report. (8.1.1.2)

The TPC Executive Summary Statement is included near the beginning of this report.

0.3. Numerical Quantities Summary

The numerical quantities listed below must be summarized near the beginning of the Full Disclosure Report: (8.1.1.3)

- *Measurement interval in minutes,*
- *Number of checkpoints in the measurement interval,*
- *Checkpoint interval in minutes,*
- *Number of transactions (all types) completed within the measurement interval,*
- *Computed Maximum Qualified Throughput in tpmC,*
- *Ninetieth percentile, average and maximum response times for the New-Order, Payment, Order-Status, Stock-Level, Delivery (deferred and interactive) and Menu transactions,*
- *Time in seconds added to response time to compensate for delays associated with emulated components,*
- *Percentage of transaction mix for each transaction type.*

These numerical quantities are summarized near the beginning of this report.

0.4. Application Code Disclosure

The applicable 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 and output functions. (8.1.1.4)

Appendix A contains the client application code used in this TPC-C benchmark. Appendix B contains the SQL stored procedures that implement the TPC-C transactions.

0.5. Benchmark Sponsor

A statement identifying the benchmark sponsor(s) and other participating companies must be provided. (8.1.1.5)

Unisys Corporation sponsored this TPC benchmark C. Microsoft and Unisys developed the benchmark test. The benchmark was conducted at Unisys, Mission Viejo, California.

0.6. Parameter Settings

Settings must be provided for all customer-tunable parameters and options which have been changed from the defaults found in actual products, including but not limited to: (8.1.1.6)

- *Data Base tuning options*
- *Recovery/commit options*
- *Consistency/locking options*
- *Operating system and application configuration parameters*

Appendix C contains the configuration and system parameters used in running these TPC-C tests. It also contains all the client and server OS and SQL Server tunable parameters.

0.7. Configuration Diagrams

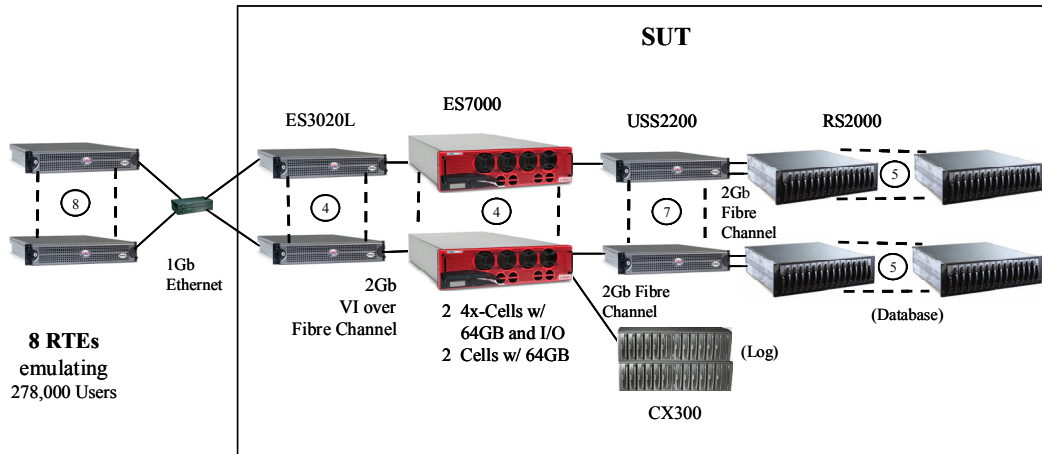
Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences. This includes, but is not limited to: (8.1.1.7)

- *Number and type of processors.*
- *Size of allocated memory, and any specific mapping/partitioning of memory unique to the test.*
- *Number and type of disk units (and controllers, if applicable).*
- *Number of channels or bus connections to disk units, including their protocol type.*
- *Number of LAN (e.g., Ethernet) connections, including routers, workstations, terminals, etc., that were physically used in the test or are incorporated into the pricing structure (see Clause 8.1.8).*
- *Type and the run-time execution location of software components (e.g., DBMS, client processes, transaction monitors, software drivers, etc.).*

The Remote Terminal Emulator (RTE) software used for these TPC-C tests is proprietary to Unisys. The benchmarked configuration of the RTE and Unisys ES7000 Enterprise Server (8P) is illustrated in Figure 0.1. Tables 4.3 and 4.5 contain a detailed explanation of the disk configuration.

The differences between the measured and priced configurations, if any, are described in the auditor's notes (attestation letter) in clause 9 of this document.

Figure 0.1: Benchmarked Configuration



Clients (each of 4)

ES3120L Server

2 x 3.4GHz Intel® Xeon™
w/ 2MB L2 cache,
2 GB memory,
1 x 36GB internal disk,
1 x PCI VI controller,
2 Inbuilt 1Gb Eth. cntrls.
(1 used).

Server

ES7000

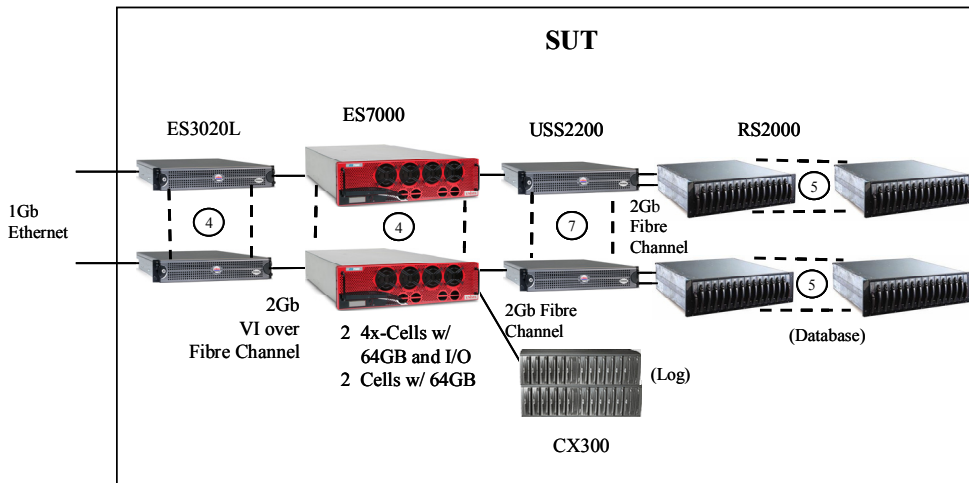
8 x Intel® Dual-Core Xeon™ 7041
3.0GHz w/ 2+2MB L2 cache,
256 GB memory,
2 x 36GB SAS disk, internal ,
1 x PCI SAS RAID cntrl, internal,
8 x PCI Fibre Channel cntrls,
2 x PCI VI-over-FC cntrls,
4 Inbuilt 1Gb Eth. cntrls. (0 used).

Storage

USS2200/RS2000 & CX300

476 x 18GB + 14 x 36GB
20 x 146GB
External Fibre Channel disks,
8 x FC RAID controllers

Figure 0.2: Priced Configuration



Clients (each of 4)

ES3120L Server

2 x 3.4GHz Intel® Xeon™
w/ 2MB L2 cache,
2 GB memory,
1 x 36GB internal disk,
1 x PCI VI controller,
2 Inbuilt 1Gb Eth. cntrls.
(1 used).

Server

ES7000

8 x Intel® Dual-Core Xeon™ 7041
3.0GHz w/ 2+2MB L2 cache,
256 GB memory,
2 x 36GB SAS disk, internal ,
1 x PCI SAS RAID cntrl, internal,
8 x PCI Fibre Channel cntrls,
2 x PCI VI-over-FC cntrls,
4 Inbuilt 1Gb Eth. cntrls. (0 used).

Storage

USS2200/RS2000 & CX300

490 x 36GB
20 x 146GB
External Fibre Channel disks,
8 x FC RAID controllers

1.

Clause 1: Logical Database Design

1.1. Table Definitions

Listings must be provided for all table definition statements and all other statements used to setup the database. (8.1.2.1)

Appendix B contains the SQL definitions of all the required database files, filegroups, tables, indexes and stored procedures, plus a listing of the program used to load the database and establish the required initial populations of each table.

1.2. Physical Organization of the Database

The physical organization of tables and indices, within the database, must be disclosed. (8.1.2.2)

The disk space was allocated to SQL Server according to the data in Tables 4.3 and 4.5. The SQL definitions are contained in Appendix B.

1.3. Insert and/or 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 restriction 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 maximum key value for these new rows. (8.1.2.3)

There were no restrictions on insert and/or delete operations to any of the tables.

1.4. Partitioning

While there are few restrictions placed upon horizontal or vertical partitioning of tables and rows in the TPC-C benchmark (see Clause 1.6), any such partitioning must be disclosed. (8.1.2.4)

Partitioning was not used for any table in this implementation.

1.5. Replication, Duplication or Additions

Replication of tables, if used, must be disclosed (see Clause 1.4.6). (8.1.2.5)

Additional and/or duplicate attributes in any table must be disclosed along with a statement on the impact on performance (see Clause 1.4.7). (8.1.2.6)

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

2.

Clause 2: Transaction & Terminal Profiles

2.1. Random Number Generation

The method of verification for the random number generation must be disclosed. (8.1.3.1)

The drivers used the Unisys RTE program. The initial population of the database was performed by the loader program from the Microsoft TPC-C toolkit (V4.62). The Unisys RTE program and the loader program from the Microsoft TPC-C toolkit (V4.62) were both audited independently.

2.2. Input/Output Screen Layout

The actual layout of the terminal input/output screens must be disclosed. (8.1.3.2)

The screen layouts are based on those in Clauses 2.4.3, 2.5.3, 2.6.3, 2.7.3, and 2.8.3 of the TPC Benchmark C Standard Specification. There are some minor differences in appearance due to the use of a web client implementation.

2.3. 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). (8.1.3.3)

This was verified by the auditor.

2.4. Presentation Managers or Intelligent Terminal

Any usage of presentation managers or intelligent terminals must be explained. (8.1.3.4)

Application code running on the client implemented the TPC-C user interface. A listing of this code is included in Appendix A. No presentation manager was used on the client, as screen manipulation and data input/output was handled for each user by the Microsoft Internet Explorer web browser running on each user PC.

2.5. Transaction Statistics

The percentage of home and remote order-lines in the New-Order transactions must be disclosed. (8.1.3.5)

The percentage of New-Order transactions that were rolled back as a result of an unused item number must be disclosed. (8.1.3.6)

The number of items per order entered by New-Order transactions must be disclosed. (8.1.3.7)

The percentage of home and remote Payment transactions must be disclosed. (8.1.3.8)

The percentage of Payment and Order-Status transactions that used non-primary key (C_LAST) access to the database must be disclosed. (8.1.3.9)

The percentage of Delivery transactions that were skipped as a result of an insufficient number of rows in the NEW-ORDER table must be disclosed. (8.1.3.10)

The mix (i.e., percentages) of transaction types seen by the SUT must be disclosed. (8.1.3.11)

Table 5.4 in Section 5 contains all these statistics.

2.6. Queuing Mechanism of Delivery

The queuing mechanism used to defer execution of the Delivery transaction must be disclosed (8.1.3.12).

Deferred deliveries are queued by making an entry in an array within the application process (tpcc.dll) running on the client systems. Background threads within the application process asynchronously process the queued delivery transactions and log the results to a file upon completion.

3.

Clause 3: Transaction & System Properties

3.1. 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. (8.1.4.1)

The TPC Benchmark C Standard Specification defines a set of transaction processing system properties that a system under test (SUT) must support during the execution of the benchmark. Those properties are Atomicity, Consistency, Isolation, and Durability (ACID).

This section defines each of these properties, describes the steps taken to ensure that they were present during the test and describes a series of tests done to demonstrate compliance with the specification. All ACID property tests were executed successfully.

3.2. Atomicity

The system under test must guarantee that data base 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.

3.2.1. Completed Transaction

Perform the Payment transaction for a randomly selected warehouse, district, and customer (by customer number) and verify that the records in the CUSTOMER, DISTRICT, and WAREHOUSE tables have been changed appropriately.

The balances from a randomly selected warehouse, district, and customer row were retrieved by customer number from a script. A Payment transaction was submitted with the same warehouse, district and customer identifiers for a known amount. After completion of the Payment transaction, the balances of the selected warehouse, district, and customer were again retrieved to verify that the changes had been made correctly.

3.2.2. Aborted Transactions

Perform the Payment transaction for a randomly selected warehouse, district, and customer (by customer number) and substitute a ROLLBACK of the transaction for the COMMIT of the transaction. Verify that the records in the CUSTOMER, DISTRICT, and WAREHOUSE tables have NOT been changed.

The balances from a randomly selected warehouse, district, and customer row were retrieved by customer number from a script. A Payment transaction was submitted with the same warehouse, district and customer identifiers that issued a ROLLBACK command rather than a COMMIT. After the transaction completed, the balances of the selected warehouse, district, and customer were again retrieved to verify that no changes had been made to the database.

3.3. Consistency

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

The benchmark specification requires explicit demonstration of the following four consistency conditions:

1. The sum of the district balances in a warehouse is equal to the warehouse balance;
2. For each district, the next order id minus one is equal to maximum order id in the ORDER table and equal to the maximum new order id in the NEW ORDER table;
3. For each district, the maximum order id minus minimum order id in the ORDER table plus one equals the number of rows in the NEW-ORDER table for that district;
4. For each district, the sum of the order line counts in the ORDER table equals the number of rows in the ORDER-LINE table for that district;

In order to demonstrate this consistency, the following steps were taken:

1. Prior to the start of a benchmark run, the consistency of the database was verified by testing successfully conditions 1-4 described above with a script.
2. A run under full user load was executed for over 10 minutes with a checkpoint during the run.
3. After completion of that test, the consistency of the database was again verified by successfully testing using the same consistency script as in step 1.

3.4. 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.

The benchmark specification defines seven required tests to be performed to demonstrate that required levels of transaction isolation are met. These tests, described in Clauses 3.4.2.1 - 3.4.2.7, were all performed from a script and verified by the auditor. In Isolation Test 7, Case A was observed. In addition, the phantom tests and stock level tests were executed and verified to be successful.

3.5. Durability

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

Three durability tests were executed to satisfy the requirements of the specification. The tests for loss of memory and instantaneous interruption were combined and performed with a fully scaled database with all emulated users. The loss of log and loss of data tests were performed on the same database with 39,730 emulated users. To the best of our knowledge, these tests prove that the fully scaled configuration used for the throughput test would also meet all durability tests.

3.5.1. Loss of Log Disk and Loss of Data Disk

The following steps were taken with only 39,730 emulated users to demonstrate durability in the case of loss of a log disk and loss of a data disk:

1. The database was backed up to extra space on a backup volume.
2. The D_NEXT_O_ID fields for all rows in the district table were summed up to determine the initial count of orders present in the database.
3. The RTE was started with 39,730 users. On the driver systems, committed and rolled back New-Order transactions were recorded in a "success" file.
4. After five minutes of running at steady state, a hot-pluggable log disk was removed from the disk cabinet, with no effect on the OS or SQLServer.

5. After 5 additional minutes of operation, a hot-pluggable data disk was removed from the disk cabinet.
6. Windows Datacenter and SQL Server encountered IO errors due to the missing disk and recorded these errors in the system event log and SQL Server error log, respectively. The RTEs also recorded errors.
7. First, the RTEs and clients were stopped, and then SQL Server was used to backup the transaction log to the backup volume.
8. Next, scripts were executed to drop the database and all its files. Then, SQL Server was shutdown.
9. A data disk was inserted in the disk cabinet to replace the one removed. The RAID controller, via Storage Sentinel Manager, was used to recreate the stripe set containing the new data disk. (The missing log drive was not replaced.)
10. The SUT was restarted, SQL Server was then restarted, and a new (empty) database created as part of the restore database process. That process loaded the initial database into the new database, but did not perform any recovery. Next the transaction log was restored, followed by transaction recovery. The latter step restored all committed transactions to the database.
11. Consistency condition 3 of Clause 3.3.2.3 was executed to verify database consistency.
12. Step 2 was repeated to determine the total number of orders. This number was subtracted from the count obtained previously in Step 2 to determine the number of additional orders added to the database.
13. The contents of the “success” files on the drivers were sampled to verify that the records in the “success” file for committed New-Order transactions had corresponding records in the ORDER table. Step 1 was repeated to determine the total number of orders (count2). Count2 minus count1 was not less than the number of committed New-Order records in the “success” file from the drivers.

3.5.2. Instantaneous Interruption and Loss of Memory

Instantaneous interruption and loss of memory tests were combined because the loss of power erased the contents of memory. Removing the primary power to the System Under Test while the benchmark was executing induced this failure.

1. The D_NEXT_O_ID fields for all rows in the district table were summed up to determine the initial count of orders present in the database (count1).
2. On the driver systems, committed and rolled back New-Order transactions were recorded in a “success” file.
3. The benchmark was executed at full load with all emulated users for a minimum of 5 minutes.
4. The system’s primary power was then turned off.
5. After transaction failures were noted by the RTEs, the RTEs and clients were shutdown.
6. Power was restored to the SUT, the system rebooted, SQL Server was restarted, and automatic database recovery was performed. The database recovery used the transaction log to reapply all committed transactions and rollback any (in progress) uncommitted transactions, so that the database disks were correct.
7. After recovery finished, Consistency Condition 3 of Clause 3.3.2.3 (no gaps in NO_O_ID) was executed to verify that the database was consistent.
8. Finally, step 1 was repeated to determine the total number of orders (count2). Count2 minus count1 was not less than the number of committed New-Order records in the “success” file from the drivers.
9. The contents of the “success” files on the drivers were sampled to verify that the records in the “success” file for committed New-Order transactions had corresponding records in the ORDER table.

4.

Clause 4: Scaling & Database Population

4.1. Initial Cardinality of Tables

The Cardinality (e.g., the number of rows) of each table, as it existed at the start of the benchmark run (see Clause 4.2), must be disclosed. If the database was over-scaled and inactive rows of the WAREHOUSE table were deleted (see Clause 4.2.2), the cardinality of the WAREHOUSE table as initially configured and the number of rows deleted must be disclosed. (8.1.5.1)

The TPC-C database for this test was configured with 28,000 warehouses. The cardinality of each table in the database is listed in Table 4.1

Table 4.1: Initial Cardinality of Database Table

Table	Occurrences
Warehouse	28,000
District	280,000
Customer	840,000,000
History	840,000,000
Order	840,000,000
New-Order	252,000,000
Order Line	8,399,977,673
Stock	2,800,000,000
Item	100,000

200 rows from the warehouse table were inactive while executing the measurement runs.

4.2. Constant Values

The following values were used as the constant C input values to the NURand function during Build and Run time for this implementation.

Table 4.2: Constant C for NURand

Function	Value
C_LAST (Build)	123
C_LAST (Run)	208

4.3. Database Layout

The distribution of tables and logs across all media must be explicitly depicted for the tested and priced systems. (8.1.5.2)

Tables 4.3 and 4.5 list the distribution of the database over 490 36GB disks and the transaction log over 10 mirrored pairs of 146GB disks for the benchmark configuration. In addition, there were 2 36GB mirrored disks in the host server containing Windows Server 2003, Datacenter x64 Edition and SQL Server 2005 Enterprise x64 Edition code and the Master database plus the paging file. Unused-space partitions on the database drives were used for database backup. These partitions were not used during the measurements.

4.4. DBMS: Data Model and DBMS Interface/Access Language

A statement must be provided that describes: (8.1.5.3)

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

Microsoft SQL Server 2005 is a relational DBMS.

The client software interfaced to SQL Server through Stored Procedures invoked through ODBC calls embedded in the C application code.

4.5. DBMS Partitions/Replications

The mapping of database partitions/replications must be explicitly described. (8.1.5.4)

No table partitioning or replication was done.

4.6. DBMS Space Requirements

Details of the 60-day space computation along with proof that the database is configured to sustain 8 hours of growth for dynamic tables (Order, Order-line, and History) must be disclosed (see Clause 4.2.3) (8.1.5.5).

Appendix E lists the space requirements for the 60-day space as well as the logical log space for eight hours.

Table 4.3: Disk Rack Configuration

Disk Rack Configuration																	
Controller	HBA	Rack	Raid Level	ID 0	ID 1	ID 2	ID 3	ID 4	ID 5	ID 6	ID 7	ID 8	ID 9	ID 10	ID 11	ID 12	ID 13
USS1	0	1	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS1	0	2	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS1	0	3	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS1	1	4	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS1	1	5	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS2	0	6	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS2	0	7	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS2	0	8	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS2	1	9	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS2	1	10	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS3	0	11	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS3	0	12	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS3	0	13	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS3	1	14	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS3	1	15	0	36GB	36GB	36GB	36GB	36GB	36GB	36GB	36GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	0	16	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	0	17	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	0	18	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	1	19	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	1	20	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	0	21	0	36GB	36GB	36GB	36GB	36GB	36GB	36GB	36GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	0	22	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	0	23	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	1	24	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	1	25	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	0	26	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	0	27	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	0	28	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	1	29	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	1	30	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	0	31	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	0	32	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	0	33	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	1	34	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	1	35	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
CX300	n/a	1	10	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB
CX300	n/a	2	10	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB

Table 4.4: ES7000 Server HBA-PCI Slot Map

CELL-3	64GB RAM					
CELL-2	4x3.0GHz DC Xeon Processor MP	VI - Controller - 2	FC -HBA - USS4	FC -HBA - USS5	FC -HBA - USS6	FC -HBA - USS7
	64GB RAM					
CELL-1	64GB RAM					
CELL-0	4x3.0GHz DC Xeon Processor MP	VI - Controller - 1	FC -HBA - LOG	FC -HBA - USS1	FC -HBA - USS2	FC -HBA - USS3
	64GB RAM					

Table 4.5: Disk Management Configuration

Disk Management Configuration				
System Disks	Logical Disk#	Partition 1 Drive Letter	File System	Capacity=33.89GB
36 GB Disk CD-ROM	0 CD-ROM 0	C: System D:	NTFS	

		Logical Disk#	Partition 1 Size=668.23GB FS=Raw Junction Point
CX300	SP	1	C:\BigDb\dbLogs\tpcclog1
	A,B		
		Logical Disk#	Partition 1 Size=637.17GB FS=Raw Junction Point
CX300	SP	2	C:\BigDb\dbLogs\tpcclog2
	A,B		

Disk Management Configuration									
USS	HBA	Logical Disk#	Partition 1 Size=11.44GB FS=Raw Junction Point	Partition 2 Size=16.96GB FS=Raw Junction Point	Partition 3 Size=8.70GB FS=Raw Junction Point	Partition 4 Size=82.53GB FS=NTFS Junction Point			
1	1	3	C:\BigDb\cabA\ord1	C:\BigDb\cabA\cs1	C:\BigDb\cabA\misc1	C:\BigDb\dbBackups\backupA1			
		4	C:\BigDb\cabA\ord2	C:\BigDb\cabA\cs2	C:\BigDb\cabA\misc2	C:\BigDb\dbBackups\backupA2			
		5	C:\BigDb\cabA\ord3	C:\BigDb\cabA\cs3	C:\BigDb\cabA\misc3	C:\BigDb\dbBackups\backupA3			
		6	C:\BigDb\cabA\ord4	C:\BigDb\cabA\cs4	C:\BigDb\cabA\misc4	C:\BigDb\dbBackups\backupA4			
		7	C:\BigDb\cabA\ord5	C:\BigDb\cabA\cs5	C:\BigDb\cabA\misc5	Unallocated			
		8	C:\BigDb\cabA\ord6	C:\BigDb\cabA\cs6	C:\BigDb\cabA\misc6	Unallocated			
		9	C:\BigDb\cabA\ord7	C:\BigDb\cabA\cs7	C:\BigDb\cabA\misc7	Unallocated			
		10	C:\BigDb\cabA\ord8	C:\BigDb\cabA\cs8	C:\BigDb\cabA\misc8	Unallocated			
		11	C:\BigDb\cabA\ord9	C:\BigDb\cabA\cs9	C:\BigDb\cabA\misc9	Unallocated			
		12	C:\BigDb\cabA\ord10	C:\BigDb\cabA\cs10	C:\BigDb\cabA\misc10	Unallocated			
		2	2	13	C:\BigDb\cabB\ord1	C:\BigDb\cabB\cs1	C:\BigDb\cabB\misc1	C:\BigDb\dbBackups\backupB1	
				14	C:\BigDb\cabB\ord2	C:\BigDb\cabB\cs2	C:\BigDb\cabB\misc2	C:\BigDb\dbBackups\backupB2	
15	C:\BigDb\cabB\ord3			C:\BigDb\cabB\cs3	C:\BigDb\cabB\misc3	C:\BigDb\dbBackups\backupB3			
16	C:\BigDb\cabB\ord4			C:\BigDb\cabB\cs4	C:\BigDb\cabB\misc4	C:\BigDb\dbBackups\backupB4			
17	C:\BigDb\cabB\ord5			C:\BigDb\cabB\cs5	C:\BigDb\cabB\misc5	Unallocated			
18	C:\BigDb\cabB\ord6			C:\BigDb\cabB\cs6	C:\BigDb\cabB\misc6	Unallocated			
19	C:\BigDb\cabB\ord7			C:\BigDb\cabB\cs7	C:\BigDb\cabB\misc7	Unallocated			
20	C:\BigDb\cabB\ord8			C:\BigDb\cabB\cs8	C:\BigDb\cabB\misc8	Unallocated			
21	C:\BigDb\cabB\ord9			C:\BigDb\cabB\cs9	C:\BigDb\cabB\misc9	Unallocated			
22	C:\BigDb\cabB\ord10			C:\BigDb\cabB\cs10	C:\BigDb\cabB\misc10	Unallocated			
3	3	23	C:\BigDb\cabC\ord1	C:\BigDb\cabC\cs1	C:\BigDb\cabC\misc1	C:\BigDb\dbBackups\backupC1			
		24	C:\BigDb\cabC\ord2	C:\BigDb\cabC\cs2	C:\BigDb\cabC\misc2	C:\BigDb\dbBackups\backupC2			
		25	C:\BigDb\cabC\ord3	C:\BigDb\cabC\cs3	C:\BigDb\cabC\misc3	C:\BigDb\dbBackups\backupC3			
		26	C:\BigDb\cabC\ord4	C:\BigDb\cabC\cs4	C:\BigDb\cabC\misc4	C:\BigDb\dbBackups\backupC4			
		27	C:\BigDb\cabC\ord5	C:\BigDb\cabC\cs5	C:\BigDb\cabC\misc5	Unallocated			
		28	C:\BigDb\cabC\ord6	C:\BigDb\cabC\cs6	C:\BigDb\cabC\misc6	Unallocated			
		29	C:\BigDb\cabC\ord7	C:\BigDb\cabC\cs7	C:\BigDb\cabC\misc7	Unallocated*			
		30	C:\BigDb\cabC\ord8	C:\BigDb\cabC\cs8	C:\BigDb\cabC\misc8	Unallocated			
		31	C:\BigDb\cabC\ord9	C:\BigDb\cabC\cs9	C:\BigDb\cabC\misc9	Unallocated			
		32	C:\BigDb\cabC\ord10	C:\BigDb\cabC\cs10	C:\BigDb\cabC\misc10	Unallocated			

Disk Management Configuration (cont.)

Disk Management Configuration								
USS	HBA	Logical Disk#	Partition 1	Partition 2	Partition 3	Partition 4		
			Size=11.44GB FS=Raw Junction Point	Size=16.96GB FS=Raw Junction Point	Size=8.70GB FS=Raw Junction Point	Size=82.53GB FS=NTFS Junction Point		
4	4	33	C:\BigDb\cabD\ord1	C:\BigDb\cabD\cs1	C:\BigDb\cabD\misc1	C:\BigDb\dbBackups\backupD1		
		34	C:\BigDb\cabD\ord2	C:\BigDb\cabD\cs2	C:\BigDb\cabD\misc2	C:\BigDb\dbBackups\backupD2		
		35	C:\BigDb\cabD\ord3	C:\BigDb\cabD\cs3	C:\BigDb\cabD\misc3	C:\BigDb\dbBackups\backupD3		
		36	C:\BigDb\cabD\ord4	C:\BigDb\cabD\cs4	C:\BigDb\cabD\misc4	C:\BigDb\dbBackups\backupD4		
		37	C:\BigDb\cabD\ord5	C:\BigDb\cabD\cs5	C:\BigDb\cabD\misc5	Unallocated		
		38	C:\BigDb\cabD\ord6	C:\BigDb\cabD\cs6	C:\BigDb\cabD\misc6	Unallocated		
		39	C:\BigDb\cabD\ord8	C:\BigDb\cabD\cs8	C:\BigDb\cabD\misc7	Unallocated		
		40	C:\BigDb\cabD\ord9	C:\BigDb\cabD\cs9	C:\BigDb\cabD\misc8	Unallocated		
		41	C:\BigDb\cabD\ord10	C:\BigDb\cabD\cs10	C:\BigDb\cabD\misc9	Unallocated		
		42	C:\BigDb\cabD\ord12	C:\BigDb\cabD\cs12	C:\BigDb\cabD\misc10	Unallocated		
		5	5	43	C:\BigDb\cabE\ord1	C:\BigDb\cabE\cs1	C:\BigDb\cabE\misc1	C:\BigDb\dbBackups\backupE1
				44	C:\BigDb\cabE\ord2	C:\BigDb\cabE\cs2	C:\BigDb\cabE\misc2	C:\BigDb\dbBackups\backupE2
45	C:\BigDb\cabE\ord3			C:\BigDb\cabE\cs3	C:\BigDb\cabE\misc3	C:\BigDb\dbBackups\backupE3		
46	C:\BigDb\cabE\ord4			C:\BigDb\cabE\cs4	C:\BigDb\cabE\misc4	C:\BigDb\dbBackups\backupE4		
47	C:\BigDb\cabE\ord5			C:\BigDb\cabE\cs5	C:\BigDb\cabE\misc5	Unallocated		
48	C:\BigDb\cabE\ord6			C:\BigDb\cabE\cs6	C:\BigDb\cabE\misc6	Unallocated		
49	C:\BigDb\cabE\ord7			C:\BigDb\cabE\cs7	C:\BigDb\cabE\misc7	Unallocated		
50	C:\BigDb\cabE\ord8			C:\BigDb\cabE\cs8	C:\BigDb\cabE\misc8	Unallocated		
51	C:\BigDb\cabE\ord9			C:\BigDb\cabE\cs9	C:\BigDb\cabE\misc9	Unallocated		
52	C:\BigDb\cabE\ord10			C:\BigDb\cabE\cs10	C:\BigDb\cabE\misc10	Unallocated		
6	6			53	C:\BigDb\cabF\ord1	C:\BigDb\cabF\cs1	C:\BigDb\cabF\misc1	C:\BigDb\dbBackups\backupF1
				54	C:\BigDb\cabF\ord2	C:\BigDb\cabF\cs2	C:\BigDb\cabF\misc2	C:\BigDb\dbBackups\backupF2
		55	C:\BigDb\cabF\ord3	C:\BigDb\cabF\cs3	C:\BigDb\cabF\misc3	C:\BigDb\dbBackups\backupF3		
		56	C:\BigDb\cabF\ord4	C:\BigDb\cabF\cs4	C:\BigDb\cabF\misc4	C:\BigDb\dbBackups\backupF4		
		57	C:\BigDb\cabF\ord5	C:\BigDb\cabF\cs5	C:\BigDb\cabF\misc5	Unallocated		
		58	C:\BigDb\cabF\ord6	C:\BigDb\cabF\cs6	C:\BigDb\cabF\misc6	Unallocated		
		59	C:\BigDb\cabF\ord7	C:\BigDb\cabF\cs7	C:\BigDb\cabF\misc7	Unallocated		
		60	C:\BigDb\cabF\ord8	C:\BigDb\cabF\cs8	C:\BigDb\cabF\misc8	Unallocated		
		61	C:\BigDb\cabF\ord9	C:\BigDb\cabF\cs9	C:\BigDb\cabF\misc9	Unallocated		
		62	C:\BigDb\cabF\ord10	C:\BigDb\cabF\cs10	C:\BigDb\cabF\misc10	Unallocated		
		7	7	63	C:\BigDb\cabG\ord1	C:\BigDb\cabG\cs1	C:\BigDb\cabG\misc1	C:\BigDb\dbBackups\backupG1*
				64	C:\BigDb\cabG\ord2	C:\BigDb\cabG\cs2	C:\BigDb\cabG\misc2	C:\BigDb\dbBackups\backupG2
65	C:\BigDb\cabG\ord3			C:\BigDb\cabG\cs3	C:\BigDb\cabG\misc3	C:\BigDb\dbBackups\backupG3		
66	C:\BigDb\cabG\ord4			C:\BigDb\cabG\cs4	C:\BigDb\cabG\misc4	C:\BigDb\dbBackups\backupG4		
67	C:\BigDb\cabG\ord5			C:\BigDb\cabG\cs5	C:\BigDb\cabG\misc5	Unallocated		
68	C:\BigDb\cabG\ord6			C:\BigDb\cabG\cs6	C:\BigDb\cabG\misc6	Unallocated		
69	C:\BigDb\cabG\ord7			C:\BigDb\cabG\cs7	C:\BigDb\cabG\misc7	Unallocated		
70	C:\BigDb\cabG\ord8			C:\BigDb\cabG\cs8	C:\BigDb\cabG\misc8	Unallocated		
71	C:\BigDb\cabG\ord9			C:\BigDb\cabG\cs9	C:\BigDb\cabG\misc9	Unallocated		
72	C:\BigDb\cabG\ord10			C:\BigDb\cabG\cs10	C:\BigDb\cabG\misc10	Unallocated		

* Partition size is 202.15 GB

5. Clause 5: Performance Metrics & Response Time

5.1. Measured Throughput (tpmC)

Measured tpmC must be reported. (8.1.6.1)

The measured tpmC was 347,854

5.2. Response Times

Ninetieth percentile, maximum and average response times must be reported for all transaction types as well as for the Menu response time. (8.1.6.2)

Table 5.1: Response Time Data

Transaction	Average	Maximum	90th %ile
New-Order	0.30	8.05	0.45
Payment	0.28	5.02	0.43
Order Status	0.30	8.88	0.45
Delivery (interactive)	0.23	1.48	0.36
Delivery (deferred)	0.14	3.64	0.19
Stock-Level	0.44	1.84	0.67
Menu	0.23	2.52	0.36

5.3. Keying and Think Times

The minimum, the average, and the maximum keying and think times must be reported for each transaction type. (8.1.6.3)

Table 5.2: Keying Times

Transaction	Minimum	Average	Maximum
New-Order	18.01	18.01	18.03
Payment	3.01	3.01	3.03
Order Status	2.01	2.01	2.03
Delivery (interactive)	2.01	2.01	2.03
Stock-Level	2.01	2.01	2.03

Table 5.3: Think Times

Transaction	Minimum	Average	Maximum
New-Order	0.00	12.03	120.31
Payment	0.00	12.03	120.31
Order Status	0.00	10.08	100.70
Delivery (interactive)	0.00	5.06	50.61
Stock-Level	0.00	5.06	50.61

5.4. Response Time Frequency Distribution Curves

Response Time frequency distribution curves (see Clause 5.6.1) must be reported for each transaction type. (8.1.6.4)

Figure 5.1: New Order Response Time Distribution

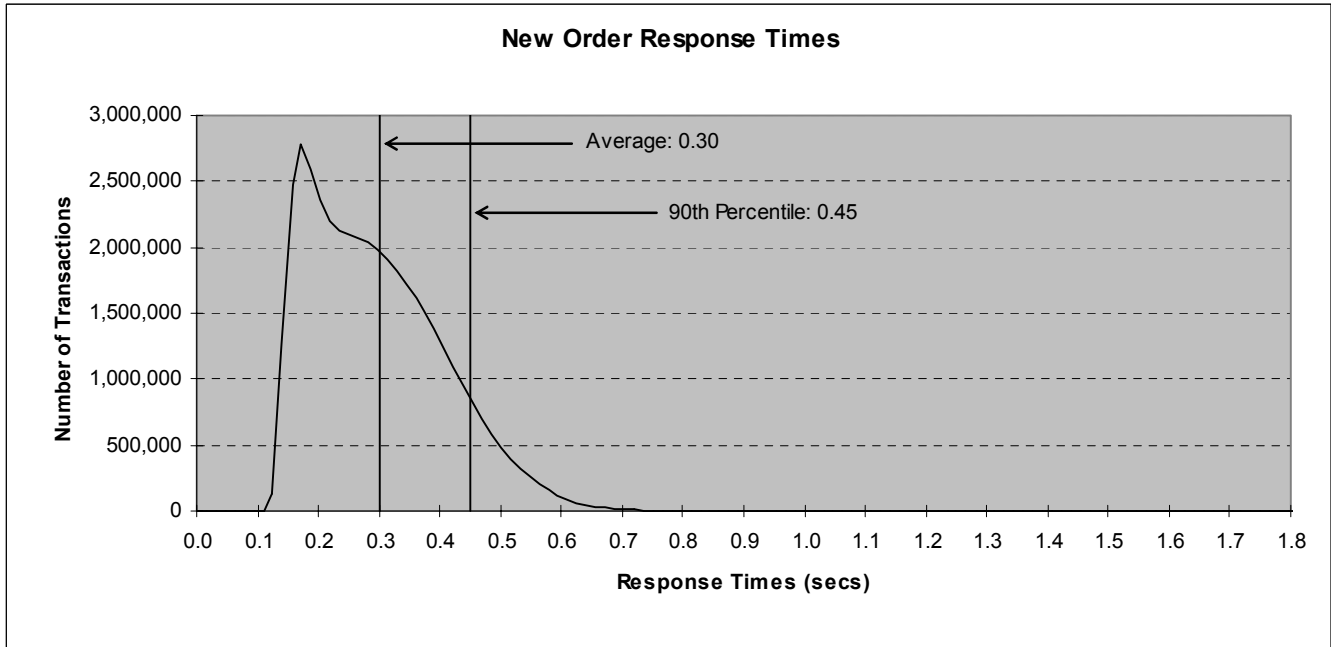


Figure 5.2: Payment Response Time Distribution

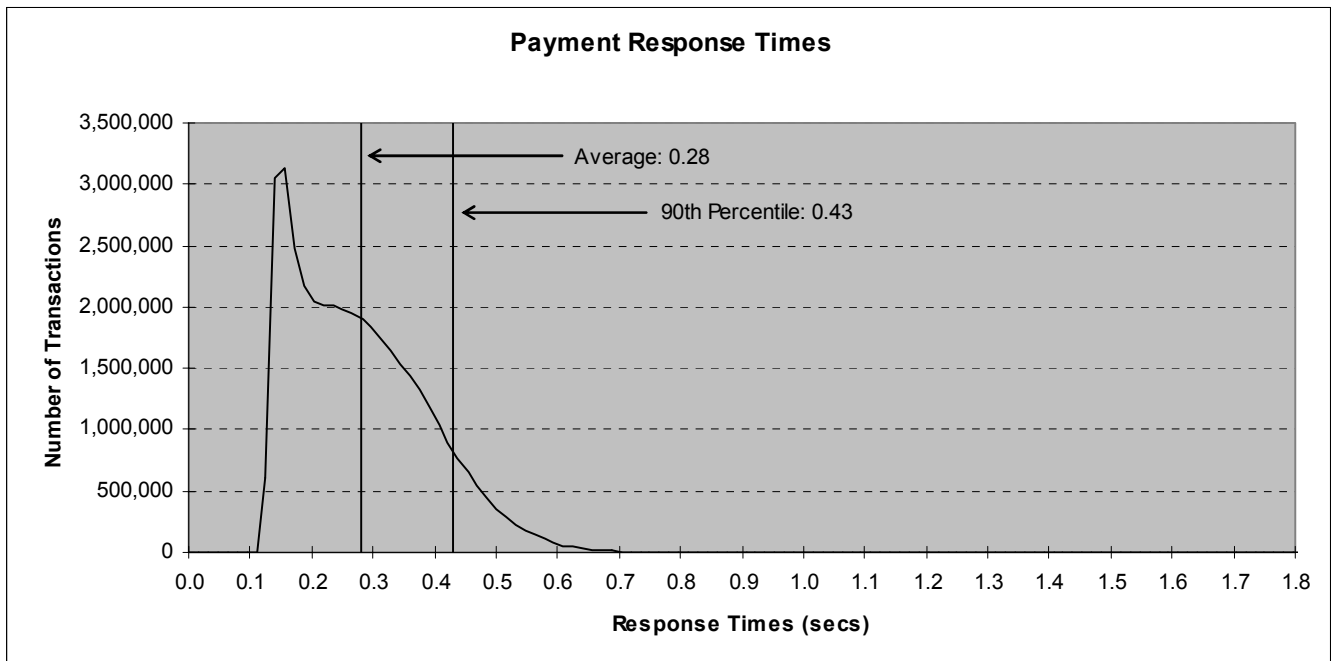


Figure 5.3: Order Status Response Time Distribution

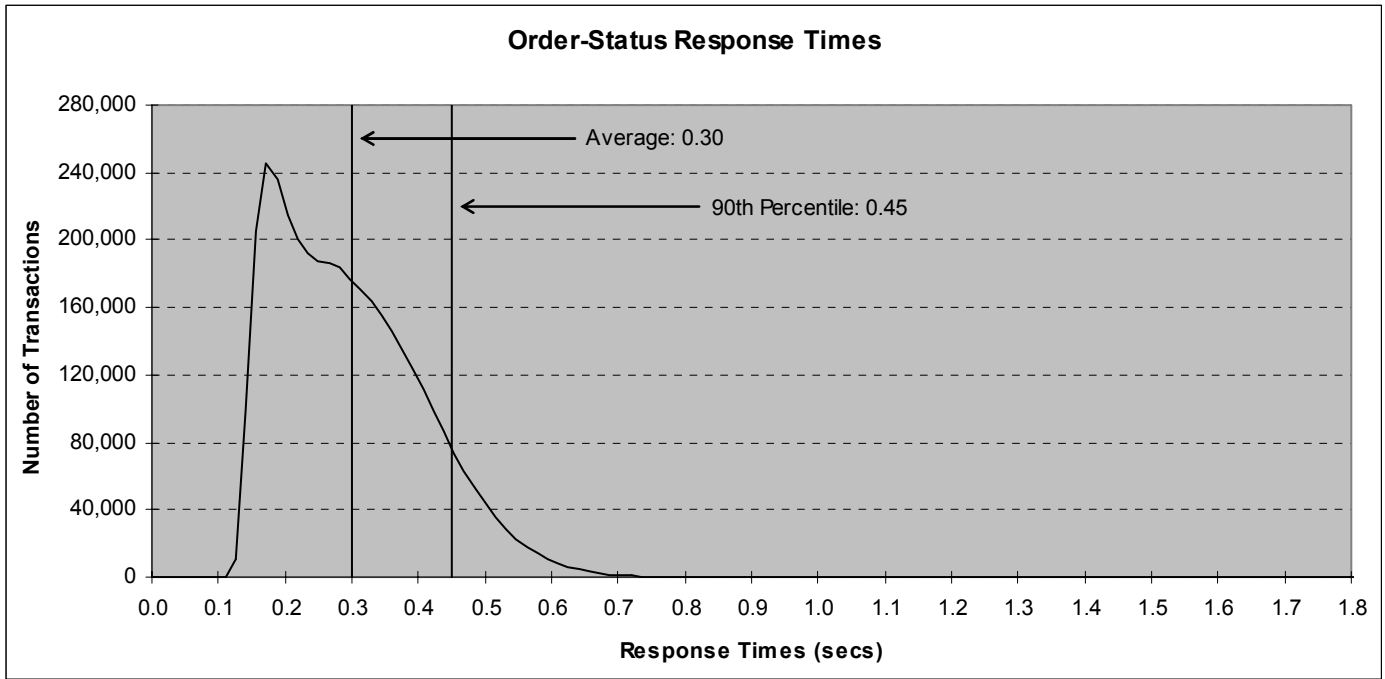


Figure 5.4: Delivery Response Time Distribution

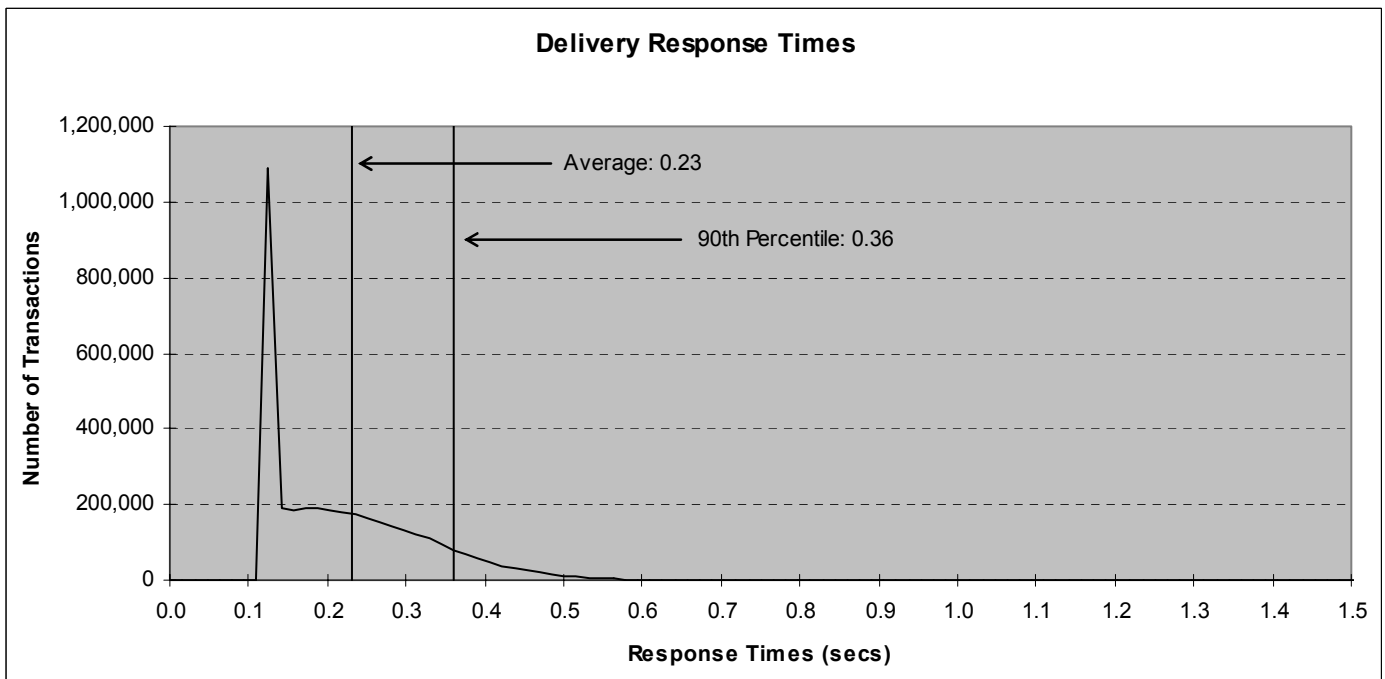
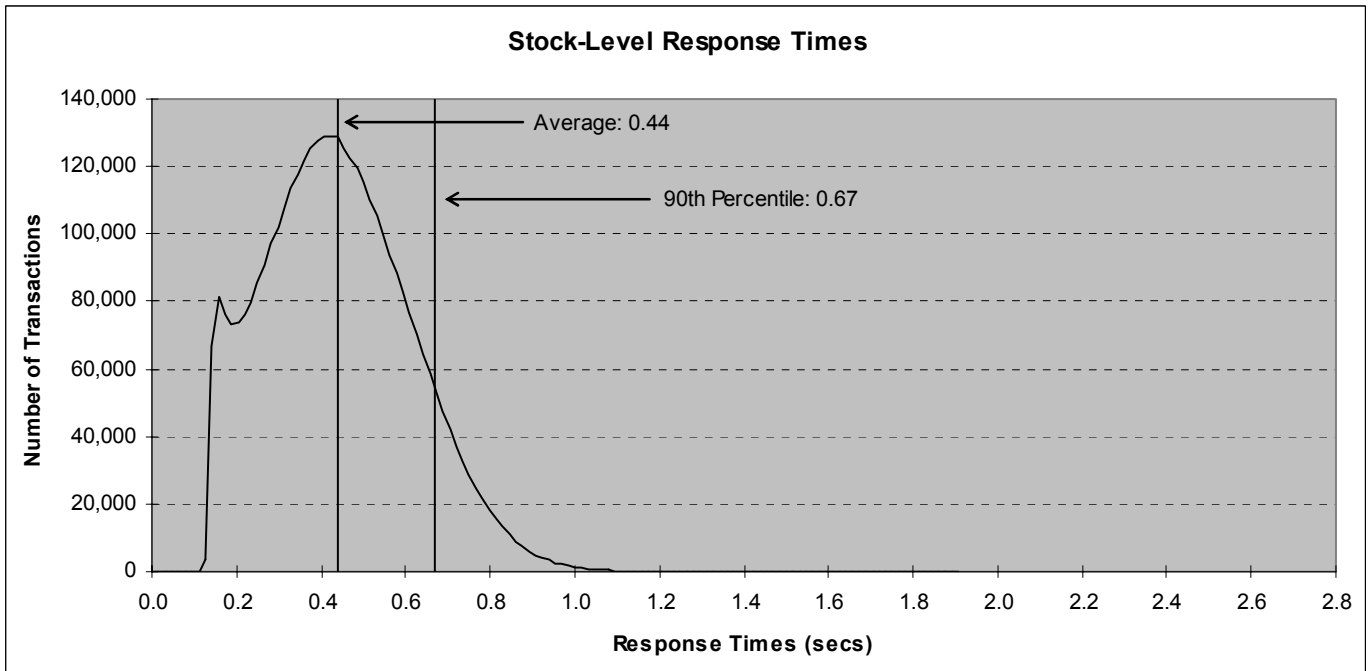


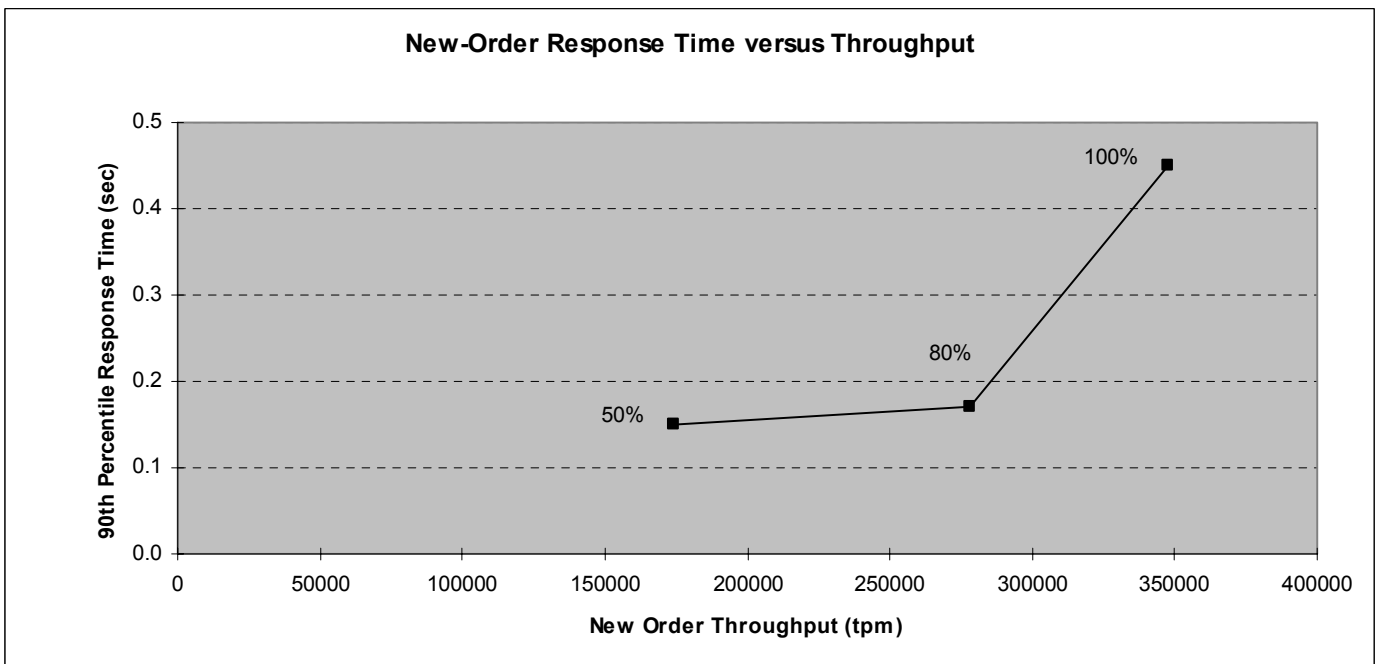
Figure 5.5: Stock Level Response Time Distribution



5.5. Response Time versus Throughput Performance Curve

The performance curve for response times versus throughput (Clause 5.6.2) must be reported for the New-Order transaction. (8.1.6.5)

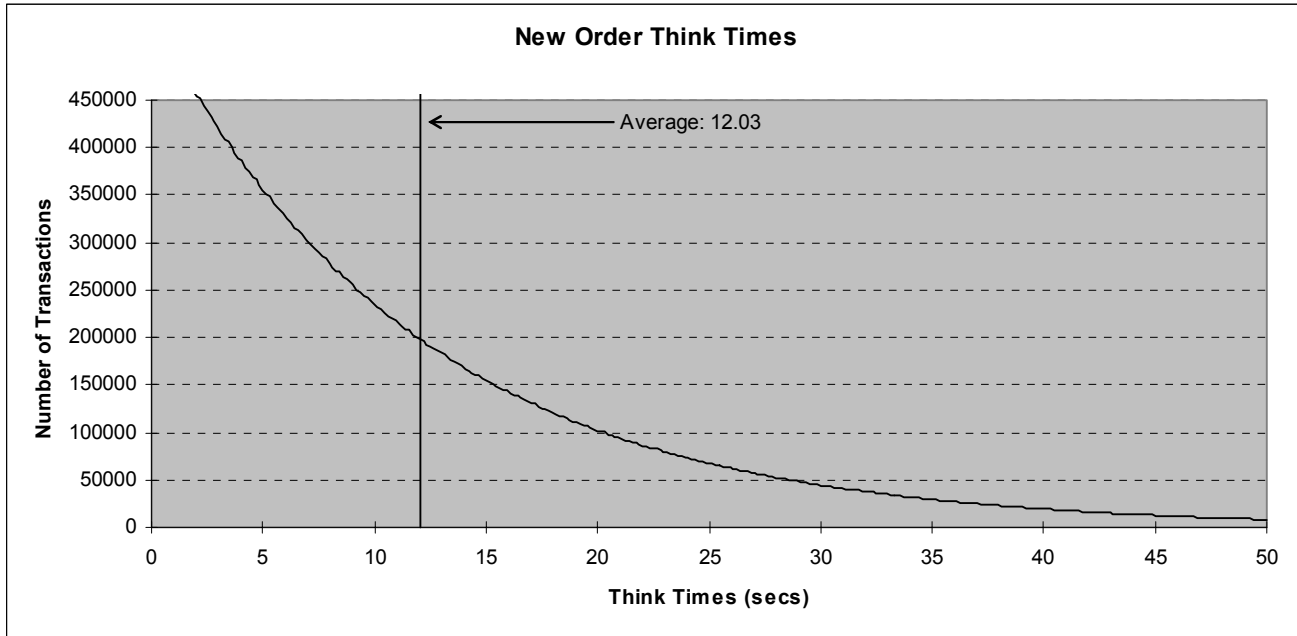
Figure 5.6: New Order Response Time versus Throughput



5.6. New Order Think Time Frequency Distribution Curve

Think Time frequency distribution curve (see Clause 5.6.3) must be reported for the New-Order transaction. (8.1.6.6)

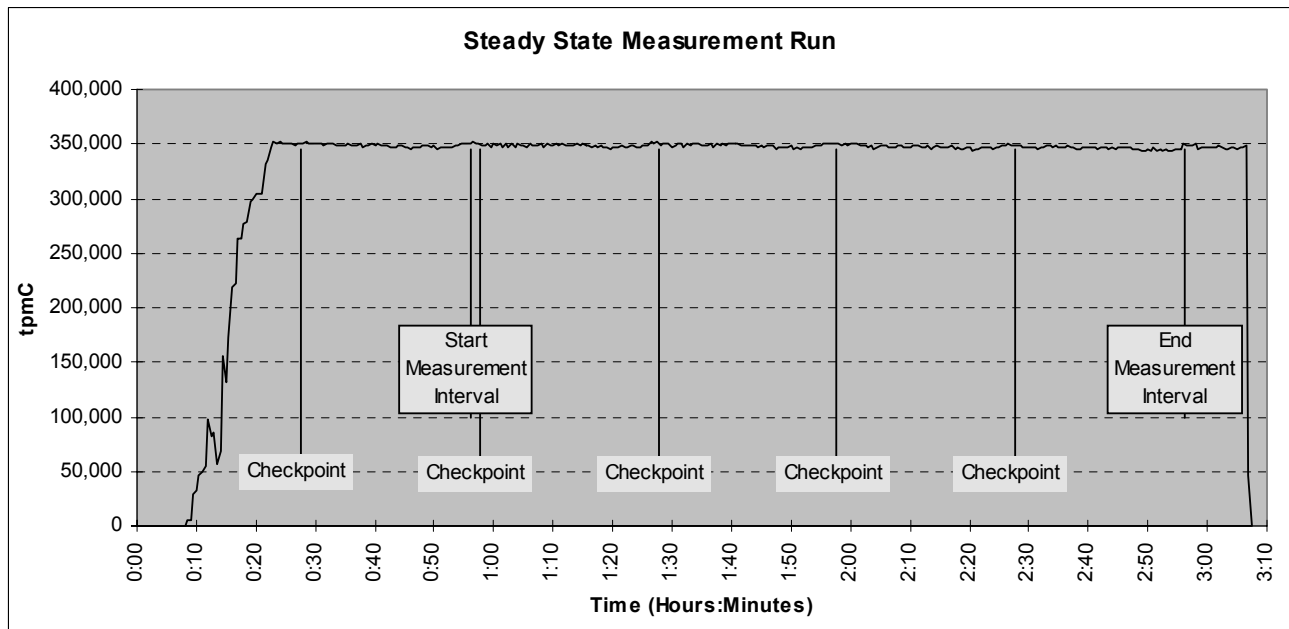
Figure 5.7: New Order Think Time Distribution



5.7. New-Order Throughput vs. Time

A graph of throughput versus elapsed time (Clause 5.6.4) must be reported for the New-Order transaction. (8.1.6.8)

Figure 5.8: Throughput (tpmC) versus Time



5.8. Determination of “Steady State”

The method used to determine that the SUT had reached a steady state prior to commencing the measurement interval (see Clause 5.5) must be described. (8.1.6.9)

The transaction throughput rate (tpmC) and response time were relatively constant after the initial ‘ramp up’ period. The throughput and response time behavior were determined by examining data reported for each 30-second interval over the duration of the benchmark. Ramp-up and steady state are discernible in the graph presented in Figure 5.8.

5.9. 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. (8.1.6.10)

The RTE selects a transaction type from the menu and prepares to request the appropriate blank form. A timestamp is taken before the form request is sent and after the response is returned. The difference between the two is saved off as the menu response time. The RTE then generates input data for the transaction to create a completed form and waits the appropriate key time. A timestamp is taken before the completed form is sent and after the response is returned. The difference between these two is saved off as the transaction response time. Both response times are padded with a 0.1 second delay per spec to account for the web browser delay. The appropriate transaction data and response times are logged and the RTE waits the required think time interval before repeating the process. Each RTE driver maintains its own log file. Log file contents are consolidated for the reports.

The RTE emulates web browsers (not terminals) in this client-server implementation. The RTE sends and receives HTML formatted data using HTTP through Ethernet LANs to a client application running on the client machine. The client application processes the request, sends the transaction to a COM+ component, waits for the transaction response, and returns an appropriately formatted HTML form back to the (emulated) web browser (RTE). When activated, the COM+ component calls a stored procedure on the data base server using Microsoft SQL Server ODBC, collects the response, and returns the result to the requestor.

To perform checkpoints at specific intervals, a utility was written to schedule checkpoints at parameter-specified intervals and record the start and end time of each checkpoint. The checkpoint script was started manually on one of the client machines after the RTE had all users logged in and sending transactions and a steady state had been achieved.

At each checkpoint, SQL Server wrote to disk all database pages in memory that had been updated but not yet physically written to the disk. Upon completion of the checkpoint, SQL Server also wrote records to the error log indicating that a checkpoint had completed.

5.10. Measurement Interval Duration

A statement of the duration of the measurement interval for the reported Maximum Qualified Throughput (tpmC) must be included. (8.1.6.12)

The measurement interval was 120 minutes.

5.11. 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. (8.1.6.13)

The RTE was given a weighed random distribution, which could not be adjusted during the run.

5.12. Transaction Statistics

The percentage of the total mix for each transaction type must be disclosed. (8.1.6.14)

The percentage of New-Order transactions rolled back as a result of invalid item number must be disclosed. (8.1.6.15)

The average number of order-lines entered per New-Order transaction must be disclosed. (8.1.6.16)

The percentage of remote order-lines entered per New-Order transaction must be disclosed. (8.1.6.17)

The percentage of remote Payment transactions must be disclosed. (8.1.6.18)

The percentage of customer selections by customer last name in the Payment and Order-Status transactions must be disclosed. (8.1.6.19)

The percentage of Delivery transactions skipped due to there being fewer than necessary orders in the New-Order table must be disclosed. (8.1.6.20)

Table 5.4 shows this information.

Table 5.4: Transaction Statistics

5.12. Transaction Statistics

Transaction Type	Statistic	Value
New Order	Rolled back transactions	1.00%
	Home warehouse	99.00%
	Remote warehouse	1.00%
	Average Items per Order	10.00
Payment	Home warehouse	85.00%
	Remote warehouse	15.00%
	Non-primary key access	60.01%
Order Status	Non-primary key access	59.99%
Delivery	Skipped transactions (Interactive)	0
	Skipped transaction counts (Deferred)	0
	Skipped District counts (Deferred)	0
Transaction Mix	New Order	44.93%
	Payment	43.02%
	Order-Status	4.00%
	Delivery	4.00%
	Stock-Level	4.01%

5.13. Checkpoint Statistics

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. (8.1.6.21)

There are four checkpoints in the measurement interval. The first checkpoint starts approximately 85 seconds into the measurement interval. The checkpoint interval is 30 minutes (from the start of one to the start of the next) and a checkpoint lasts approximately 28.4 minutes.

The start time and duration in seconds of at least the four (4) longest checkpoints during the Measurement Interval must be disclosed (see Clause 5.5.2.2 (2)). (8.1.6.11)

Table 5.5: Checkpoint Start Time and Duration

Item	Start	End	Duration
Measurement Interval	0:56:16	2:56:16	7200
1st Checkpoint	0:57:41	1:26:03	1702
2nd Checkpoint	1:27:41	1:56:03	1702
3rd Checkpoint	1:57:41	2:26:03	1702
4th Checkpoint	2:27:41	2:56:02	1701

6. Clause 6: SUT, Driver & Communications Definition

6.1. Remote Terminal Emulator (RTE) Description

The RTE input parameters, code fragments, functions, etc. used to generate each transaction input field must be disclosed. (8.1.7.1)

The RTE used is proprietary to Unisys. Appendix D contains the profile used as input to this RTE.

6.2. Loss of Terminal Connections

The number of terminal connections lost during the Measurement Interval must be disclosed (see Clause 6.6.2). (8.1.7.2)

No terminal connections were lost.

6.3. Emulated Components

It must be demonstrated that the functionality and performance of the components being emulated in the Driver System are equivalent to that of the priced system. The results of the test described in Clause 6.6.3.4 must be disclosed. (8.1.7.3)

There were no emulated components in the benchmark configuration other than the emulated web browsers on the users' PCs.

6.4. Functional Diagrams

A complete functional diagram of both benchmark 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 (see Clause 6.6.3.6). (8.1.7.4)

Section 0.7 describes and shows functional diagrams of the benchmarked and priced systems.

6.5. Network Configuration

The network configuration of both the tested and proposed (target) services which are being represented and a thorough explanation of exactly which parts are being replaced with the Driver System must be disclosed (see Clause 6.6.4). (8.1.7.5)

Figures 0.1 and 0.2 in Section 0.7 also diagram the network configurations of the benchmark and configured systems and represent the RTEs connected via LAN replacing the user PCs that are directly connected via LAN.

6.6. Network Bandwidth

The bandwidth of the network(s) used in the tested/priced configuration must be disclosed. (8.1.7.6)

Local area networks (LANs) are used in the priced and tested configurations. The database server contains two (2) dual-port VI 2 gigabit-per-second LAN adapters. Each was direct connected to a VI adapter in the four (4) clients. These LAN segments run at 2 gigabit-per-second in the priced and tested configurations. Each client also contains two 10/100/1000 megabit-per-second inbuilt LAN controllers of which one was used in the tested configuration. A 10/100/1000 megabit-per-second switch was used to connect the clients to RTE driver systems emulating web browsers in the tested configuration. The 10/100/1000 LAN connections between the clients and switches run at 1000 megabits-per-second in the priced and tested configurations.

6.7. Operator Intervention

If the configuration requires operator intervention (see Clause 6.6.6), the mechanism and the frequency of this intervention must be disclosed. (8.1.7.7)

No operator intervention was required to sustain eight hours of operation at the reported throughput.

7.1. 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 date. 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(s) and effective date(s) must also be reported. (8.1.8.1)

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. (8.1.8.2)

System pricing should include subtotals for the following components: Server Hardware, Server Software, Client Hardware, Client Software, and Network Components used for terminal connection (see Clause 7.2.2.3). Clause 6.1 describes the Server and Client components. (8.1.8.7)

System pricing must include line item indication where non-sponsoring companies' brands are used. System pricing must also include line item indication of third party pricing. (8.1.8.8)

A detailed list of hardware and software components along with their part numbers and prices are given in the Executive Summary near the beginning of this document. Microsoft Windows Server 2003, Datacenter x64 Edition has been supplemented by Service Pack 1 and with Microsoft Knowledge Base # KB899008. Portions of the measured SQL Server 2005 binary will be available in Service Pack 1.

7.1.1. System Pricing

The hardware, software and support/maintenance products priced in this benchmark are detailed on page v.

7.1.2. Maintenance Pricing

Three-year support pricing for Unisys Corporation products is based on standard new product warranty, upgraded to provide 24 hours/day, 7 days/week support with four hour maximum response for hardware spare parts.

Microsoft defect support is included in the purchase price. Problem resolution service is provided on an incident by incident basis at \$245 per call.

Server disks are covered by Computer Resolutions, Inc.'s 3-year, return-to-factory warranty with seven-day maximum replenishment, and appropriate spares are included in the priced configuration.

7.1.3. Discounts

Computer Resolutions, Inc. provides a standard volume cash discount for the client, server and storage components of the priced configuration. Discount amount is shown on page v.

Prices for the Microsoft products shown on page v include a discount. See Microsoft quote in Appendix F for amount per product.

7.2. Availability

The committed delivery date for general availability (availability date) of products used in the price calculation must be reported. When the priced system includes 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. (8.1.8.3)

All components will be available by the date shown on page iv.

VI-over-FC HBA software can be obtained through the Unisys Corp. support website.

7.3. Measured tpmC, Pricing, Price/Performance, and Availability Date

A statement of the measured tpmC as well as the respective calculations for the 3-year pricing, price/performance (price/tpmC), and the availability date must be included. (8.1.8.4)

The measured tpmC, plus pricing calculations, price/performance, and availability are shown on pages iv and v.

7.4. Country-Specific Pricing

Additional Clause 7 related items might be included in the Full Disclosure Report for each country specific priced configuration. Country specific pricing is subject to Clause 7.1.7. (8.1.8.5)

None.

7.5. Usage Pricing

For any usage pricing, the sponsor must disclose: (8.1.8.6)

- *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:

- One (1) Microsoft Windows Server 2003, Datacenter x64 Edition license, 8 processor
- One (1) Microsoft SQL Server 2005 Enterprise x64 Edition license, 8 processor
- Four (4) Microsoft Windows 2003 Server licenses
- One (1) Microsoft Visual C++ Standard license

8.

Clause 8 : Full Disclosure Availability

8.1. Availability

The Full Disclosure Report must be readily available to the public at a reasonable charge, similar to charges for similar documents by that test sponsor. (8.2)

Copies of this Full Disclosure Report may be downloaded from the Transaction Processing Performance Council web site at www.tpc.org or obtained by contacting:

TPC Benchmark Administrator
Systems Analysis, Modeling & Measurement Group
Unisys Corporation, M/S 237
25725 Jeronimo Road
Mission Viejo, CA 92691
USA

9.1. 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. (8.1.9.1)

A review of the pricing model is required to ensure that all components required are priced (see Clause 9.2.8). The auditor is not required to review the final Full Disclosure Report or the final pricing prior to issuing the attestations letter. (8.1.9.2)

Lorna Livingtree, a TPC certified auditor, audited this implementation of the TPC Benchmark C on the Unisys ES7000 Enterprise Server (8P) representing:

Performance Metrics, Inc.
P.O. Box 984
Klamath, CA 95548-0984

Phone: (707) 482-0575
Fax: (707) 482-0115
Email: Lorna@PerfMetrics.com

The attestation letter is shown on the next 2 pages.



PERFORMANCE METRICS INC.
TPC Certified Auditors

February 2, 2006

Jerrold Buggert
Director of Modeling and Measurement
Unisys Corporation
25725 Jeronimo Road
Mission Viejo, CA 92691

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

Platform: Unisys ES7000/one Enterprise Server (8P)
Database Manager: Microsoft SQL Server 2005 Enterprise x64 Edition
Operating System: Microsoft Windows Server 2003 Datacenter x64 Edition
Transaction Manager: Microsoft COM+ (included in Windows 2003, SP1)

Server: Unisys ES7000/one Enterprise Server (8P)				
CPU's	Memory	Disks	90% Response	TpmC
8 Intel® Dual-Core Xeon® Processor 7041 @ 3.0 GHz	Main: 256 GB	476 @ 18GB 14 @ 36GB 20 @ 146GB 2 @ 36GB (OS)	0.45 sec	347,854
4 Clients: Unisys ES3120L Server				
2 Intel® Xeon® @ 3.4 GHz	Main: 2 GB	1 @ 36GB	Na	Na

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

- The transactions were correctly implemented.
- The database was properly scaled and populated with 28,000 warehouses, of which 27,800 were active during the Measured Interval. I verified that the unused warehouses had their respective warehouse rows deleted.

PERFORMANCE METRICS INC.
TPC Certified Auditors

- The ACID properties were successfully demonstrated.
- The durability data loss and log loss tests were demonstrated on a subset of the SUT with 3,973 active warehouses, running over 10% load.
- 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 – see Auditor’s Notes.
- Measurement cycle times included a 0.1 second menu and a 0.1 second response time delays for emulated Web browsers.
- There were 278,000 user contexts present on the system.
- Each emulated user started with a different random number seed.
- The NURand constants used for database load and at run time were 123 and 208 respectively.
- The steady state portion of the test was 2 hours (7200 seconds).
- One checkpoint was taken before the measured interval and after steady state was reached.
- Four checkpoints were taken during the measured interval.
- The system pricing was checked for major components and maintenance.

Auditor Notes:

The tested system had 476 disks @ 18GB and 14 disks @ 36GB. The 36GB drives were substituted in the pricing because the 18GB disks are no longer orderable. Data collected during a TPC-C performance run demonstrated the price disks were performing better than the obsolete disks. The disks substituted in the price configuration meet the substitution requirements.

Sincerely,



Lorna Livingtree
Auditor

Appendix A - Client Source

tpcc.def

```
EXPORTS
  GetExtensionVersion
  HttpExtensionProc
```

tpcc.h

```
// tpcc.h
//
// Copyright Unisys, 2000

#include <time.h>

#define VERSIONINFO "----1.2.8 ---"

// TPCCHandler return codes
#define TPCCSEND 1
#define TPCCSENDEND 2
#define TPCCENDNOW 3

// TPCC Service return codes
#define SVC_BADITEMID 1
#define SVC_NOERROR 0
#define SVCERR_DEADLOCK -1
#define SVCERR_NOCUSTOMER -2
#define SVCERR_NOORDERS -3
#define SVCERR_DBLIB -4
#define SVCERR_EXCEPTION -5
#define SVCERR_DQFULL -6
#define SVCERR_DQSTART -7
#define SVCERR_ODBC -8

// Min/Max transaction data definitions
#define MIN_Did 1
#define MAX_Did 10
#define MIN_OL 5
#define MAX_OL 15
#define MIN_QUANTITY 1
#define MAX_QUANTITY 10
#define MIN_ITEM_ID 1
#define MAX_ITEM_ID 100000
#define MIN_CUST_ID 1
#define MAX_CUST_ID 3000
#define MIN_CARRIER 1
#define MAX_CARRIER 10
#define MIN_THRESHOLD 10
#define MAX_THRESHOLD 20

// pTPCC->iStatusId codes
#define INVALID_IID 1
#define STATUS_OK 0
```

```
#define ERR_CMD_UNKNOWN -10
#define ERRRTXT_CMD_UNKNOWN "Unrecognized Command"
#define ERR_ALREADY_LOGGEDIN -11
#define ERRRTXT_ALREADY_LOGGEDIN "Already Logged In"
#define ERR_TERMID -12
#define ERRRTXT_TERMID "TermId or SyncId in Error"
#define ERR_FORM_UNKNOWN -13
#define ERRRTXT_FORM_UNKNOWN "Unrecognized FormId"
#define ERR_WID_INVALID -14
#define ERR_DID_INVALID -15
#define ERR_MISSING_KEY -16
#define ERR_NOT_NUMERIC -17
#define ERR_THRESHOLD_RANGE -18
#define ERR_EMBEDDED_EMPTY_OL -19
#define ERR_QUANTITY_INVALID -20
#define ERR_OL_INVALID -21
#define ERR_OL_COUNT -22
#define ERR_TM_INTERFACE -23
#define ERR_SERVICE_RSLT -24
#define ERR_INPUT_TOOLONG -25
#define ERR_IDANDNAME_EMPTY -26
#define ERR_IDANDNAME_ENTERED -27
#define ERR_AMOUNT_BADFORM -28
#define ERR_AMOUNT_INVALID -29
#define ERR_CARRIER_INVALID -30
#define ERR_TERM_ALLOC -31

#define STATUS_LEN 30
#define NAME_LEN 16
#define ADDR_LEN 20
#define STATE_LEN 2
#define ZIP_LEN 9

#define CTEXT "Content-length: "
#define HTTPHdr "Content-type: text/html\r\nContent-length: \r\n\r\n"

typedef struct
{
  unsigned short year;
  unsigned short month;
  unsigned short day;
  unsigned short hour;
  unsigned short minute;
  unsigned short second;
} DATEDetails;

typedef struct
{
#ifdef LONG_WID
  long ol_supply_w_id;
#else
  short ol_supply_w_id;
#endif
  long ol_i_id;
  char ol_i_name[25];
  short ol_quantity;
```

```

    char ol_brand_generic[2];
    double ol_i_price;
    double ol_amount;
    short ol_stock;
} OL_NEW_ORDER_DATA;

typedef struct
{
    bool bTPRslt;
    short iTPRslt;
#ifdef LONG_WID
    long w_id;
#else
    short w_id;
#endif
#ifdef
    short d_id;
    long c_id;
    short o_ol_cnt;
    char c_last[NAME_LEN + 1];
    char c_credit[3];
    double c_discount;
    double w_tax;
    double d_tax;
    long o_id;
    short o_all_local;
    short o_commit_flag;
    DATEDETAILS o_entry_d;
    double total_amount;
    char execution_status[STATUS_LEN];
    OL_NEW_ORDER_DATA ol[MAX_OL];
} NEW_ORDER_DATA;

typedef struct
{
    bool bTPRslt;
    short iTPRslt;
#ifdef LONG_WID
    long w_id;
#else
    short w_id;
#endif
#ifdef
    short d_id;
    long c_id;
    short c_d_id;
#ifdef LONG_WID
    long c_w_id;
#else
    short c_w_id;
#endif
    double h_amount;
    DATEDETAILS h_date;
    char w_street_1[ADDR_LEN + 1];
    char w_street_2[ADDR_LEN + 1];
    char w_city[ADDR_LEN + 1];
    char w_state[STATE_LEN + 1];
    char w_zip[ZIP_LEN + 1];
    char d_street_1[ADDR_LEN + 1];
    char d_street_2[ADDR_LEN + 1];
    char d_city[ADDR_LEN + 1];
    char d_state[STATE_LEN + 1];
    char d_zip[ZIP_LEN + 1];

```

```

    char c_first[NAME_LEN + 1];
    char c_middle[3];
    char c_last[NAME_LEN + 1];
    char c_street_1[ADDR_LEN + 1];
    char c_street_2[ADDR_LEN + 1];
    char c_city[ADDR_LEN + 1];
    char c_state[STATE_LEN + 1];
    char c_zip[ZIP_LEN + 1];
    char c_phone[17];
    DATEDETAILS c_since;
    char c_credit[3];
    double c_credit_lim;
    double c_discount;
    double c_balance;
    char c_data[200+1];
    char execution_status[STATUS_LEN];
} PAYMENT_DATA;

typedef struct
{
    long ol_i_id;
#ifdef LONG_WID
    long ol_supply_w_id;
#else
    short ol_supply_w_id;
#endif
    short ol_quantity;
    double ol_amount;
    DATEDETAILS ol_delivery_d;
} OL_ORDER_STATUS_DATA;

typedef struct
{
    bool bTPRslt;
    short iTPRslt;
#ifdef LONG_WID
    long w_id;
#else
    short w_id;
#endif
    short d_id;
    long c_id;
    char c_first[NAME_LEN + 1];
    short o_ol_cnt;
    char c_middle[3];
    char c_last[NAME_LEN + 1];
    double c_balance;
    long o_id;
    DATEDETAILS o_entry_d;
    short o_carrier_id;
    OL_ORDER_STATUS_DATA olOrderStatusData[MAX_OL];
    char execution_status[STATUS_LEN];
} ORDER_STATUS_DATA;

typedef struct
{
    bool bTPRslt;
    short iTPRslt;
#ifdef LONG_WID
    long w_id;
#else

```

```

    short w_id;
#endif
    short o_carrier_id;
    long o_id[10];
    SYSTEMTIME QTime;           // time delivery was queued
    SYSTEMTIME EndTime;        // time delivery completed
} DELIVERY_DATA;

typedef struct
{
    bool bTPRslt;
    short iTPRslt;
#ifdef LONG_WID
    long w_id;
#else
    short w_id;
#endif
    short d_id;
    short thresh_hold;
    long low_stock;
    char execution_status[STATUS_LEN];
} STOCK_LEVEL_DATA;

```

tpcc.cpp

```

// tpcc.cpp
//
// Copyright Unisys, 1999
//

#include <windows.h>
#include <stdio.h>
#include <malloc.h>
#include <stdlib.h>
#include <string.h>
#include <winreg.h>
#include <httpext.h>

#include "..\tpccsvr\tpcc.h"
#include "tmon.h"
#include "diagio.h"
#include "term.h"
#include "delivery.h"
#include "tpcchandler.h"

#define EXTN_VERSION MAKELONG(HSE_VERSION_MINOR,HSE_VERSION_MAJOR)
#define TLS_NULL 0xFFFFFFFF
DWORD dwTlsInx;
CHAR * pTitle = "IIS TPCC COM DLL";
CRITICAL_SECTION csDllMain;

// Diagnostic logging settings
BOOL bSetEventLog = TRUE;
BOOL bSetConsole = FALSE;
UINT uSetDiagLevel = DIAG_INFO;

// TMon Interface Settings
INT iTMMaxMsg = 0;

```

```

// Term Interface Settings
INT iMaxTerms = 3000;

// Delivery Settings
long lSetDThreads = 8;
long lSetDQSize = DEFAULTDQSIZE;
char szSetPath[200] = "\\inetpub\wwwroot\\";

static CHAR * szTPCCError =
    HTTPHdr "<HTML>"
    "<HEAD><TITLE>Welcome To TPC-C</TITLE></HEAD><BODY>"
    "<B>TPCC Extension Error (TPCC Array Not Allocated)</B><BR>"
    "</BODY></HTML>";

static CHAR * szTMinError =
    HTTPHdr "<HTML>"
    "<HEAD><TITLE>Welcome To TPC-C</TITLE></HEAD><BODY>"
    "<B>TPCC Extension Error (TMin Failed)</B><BR>"
    "</BODY></HTML>";
INT iHHdrLen = 0;
INT iCTextLen = 0;

BOOL ThreadAttach(TPCC_STATE * pTPCC, CHAR * pDiag);
VOID ThreadDetach(TPCC_STATE * pTPCC);
VOID SendResponse(EXTENSION_CONTROL_BLOCK * pECB, CHAR * pMsg, CHAR *
pWork);
BOOL ReadRegistry(VOID);

//=====
//
// Function name: DllMain
//
//=====
BOOL WINAPI DllMain(HANDLE hInst, ULONG ul_reason_for_call,
LPVOID lpReserved)
{
    TPCC_STATE * pTPCC = NULL;
    CHAR szDiag[MAX_DIAG_SZ];
    UINT iTMMaxSz = 0;
    switch(ul_reason_for_call)
    {
        case DLL_PROCESS_ATTACH:
            // Process initialization

            InitializeCriticalSection(&csDllMain);
            ReadRegistry();
            DiagIoInit(pTitle, bSetConsole, bSetEventLog, uSetDiagLevel);
            wsprintf(szDiag,
                "(%s) EventLog = %d, Console = %d, DiagLevel = %d\n",
                "MaxTerms = %d\n",
                VERSIONINFO, bSetEventLog, bSetConsole, uSetDiagLevel, iMaxTerms);
            DiagIoWrite(szDiag, DIAG_FORCE);
#ifdef LONG_WID
            DiagIoWrite("tpccdll - long w_id", DIAG_FORCE);
#endif
    }

    dwTlsInx = TlsAlloc();
    if (dwTlsInx == TLS_NULL)
    {
        wsprintf(szDiag, "PAttach(%ld): Tls Alloc Failed (%ld)\n",
            GetCurrentThreadId(), GetLastError());
        DiagIoWrite(szDiag, DIAG_ERROR);
    }
}

```

```

        return(FALSE);
    };
    if (TermInit(iMaxTerms))
        return(FALSE);
    iTMMaxSz = max(iTMMaxSz, sizeof(NEW_ORDER_DATA));
    iTMMaxSz = max(iTMMaxSz, sizeof(PAYMENT_DATA));
    iTMMaxSz = max(iTMMaxSz, sizeof(ORDER_STATUS_DATA));
    iTMMaxSz = max(iTMMaxSz, sizeof(DELIVERY_DATA));
    iTMMaxSz = max(iTMMaxSz, sizeof(STOCK_LEVEL_DATA));
    iTMMaxSz += 10;
    TMonInit(iTMMaxSz);
    if (DeliveryInit(lSetDThreads, lSetDQSize, szSetPath))
    {
        DeliveryTerm();
        return(FALSE);
    };
    iHHdrLen = strlen(HTTPHdr);
    iCTextLen = strlen(CTEXT);

    break;
case DLL_THREAD_ATTACH:
    // Move ThreadAttach call to HttpExt since the DllMain call
    // for Thread Attach did not reliably come before the first
    // call to HttpExtProc.
    break;
    case DLL_THREAD_DETACH:
        ThreadDetach(pTPCC);
        break;
    case DLL_PROCESS_DETACH:
        ThreadDetach(pTPCC);
        DeleteCriticalSection(&csDllMain);
        DeliveryTerm();
        TMonTerm();
        TermTerm();
        TlsFree(dwTlsInx);
        dwTlsInx = TLS_NULL;
        DiagIoTerm();
        break;
};
return TRUE;
}; // DllMain

//=====
//
// Function name: ThreadAttach
//
// Result:
// FALSE Thread state structure initialized
// TRUE Thread state structure initialization failure
//
//=====
BOOL ThreadAttach(TPCC_STATE * pTPCC, CHAR * pDiag)
{
    EnterCriticalSection(&csDllMain);
    try
    {
        pTPCC = (TPCC_STATE *) calloc(1, sizeof(TPCC_STATE));
        if (pTPCC == NULL)
        {
            wsprintf(pDiag, "ThrAtt(%ld): pTPCC Alloc Failed (%ld)\n",

```

```

        GetCurrentThreadId(), GetLastError);
        DiagIoWrite(pDiag, DIAG_ERROR);
        return(TRUE);
    };

    char filename[64];
    long threadId;
    threadId = GetCurrentThreadId();
    sprintf(filename, "c:\\temp\\testing%ld.txt", threadId);
    pTPCC->fp = fopen(filename, "w");
    if (pTPCC->fp != NULL)
    {
        fprintf(pTPCC->fp, "Init %ld\n", threadId);
        fflush(pTPCC->fp);
    }

    TlsSetValue(dwTlsInx, pTPCC);
    pTPCC->tsTMon.pszErrTxt = pTPCC->ErrTxt;
    if (TMonInit(&pTPCC->tsTMon))
    {
        wsprintf(pDiag, "ThrAtt(%ld): TMonInit %s\n",
            GetCurrentThreadId(), pTPCC->ErrTxt);
        DiagIoWrite(pDiag, DIAG_ERROR);
        return(TRUE);
    };
} finally
{
    LeaveCriticalSection(&csDllMain);
};
return(FALSE);
}; // ThreadAttach

//=====
//
// Function name: ThreadDetach
//
//=====
VOID ThreadDetach(TPCC_STATE * pTPCC)
{
    EnterCriticalSection(&csDllMain);
    try
    {
        pTPCC = (TPCC_STATE *) TlsGetValue(dwTlsInx);
        if (pTPCC != NULL)
        {
            TMDone(&pTPCC->tsTMon);
            fclose(pTPCC->fp);
            free(pTPCC);
            pTPCC = NULL;
            TlsSetValue(dwTlsInx, pTPCC);
        };
    } finally
    {
        LeaveCriticalSection(&csDllMain);
    };
}; // ThreadDetach

//=====
//

```

```

// Function name: GetExtensionVersion
//
//=====
BOOL WINAPI GetExtensionVersion(HSE_VERSION_INFO *pVersion)
{
    pVersion->dwExtensionVersion = EXTN_VERSION;
    strncpy(pVersion->lpszExtensionDesc,pTitle,HSE_MAX_EXT_DLL_NAME_LEN);
    return TRUE;
}; // GetExtensionVersion

//=====
//
// Function name: HttpExtensionProc
//
//
// Returns:
//     HSE_STATUS_SUCCESS          send msg, drop connection
//     HSE_STATUS_SUCCESS_AND_KEEP_CONN  send msg, keep connection
//
//=====
DWORD WINAPI HttpExtensionProc(EXTENSION_CONTROL_BLOCK * pECB)
{
    TPCC_STATE * pTPCC;
    //DWORD dwRslt = HSE_STATUS_SUCCESS;
    DWORD dwRslt = HSE_STATUS_SUCCESS_AND_KEEP_CONN;
    UINT uRslt;

    pTPCC = (TPCC_STATE *) TlsGetValue(dwTlsInx);
    if (pTPCC == NULL)
    {
        CHAR szWork[200];
        ThreadAttach(pTPCC,szWork);
        pTPCC = (TPCC_STATE *) TlsGetValue(dwTlsInx);
        if (pTPCC == NULL)
        {
            SendResponse(pECB,szTPCCError,szWork);
            goto HttpXit;
        };
    };
    if (pTPCC->tsTMon.pTxnData == NULL)
        SendResponse(pECB,szTMinInitError,pTPCC->szHeader);
    TPCCClear(pTPCC);
    pTPCC->ConnID = pECB->ConnID;
    pTPCC->RecvMsg = pECB->lpszQueryString;
    uRslt = TPCCHandler(pTPCC);
    switch (uRslt)
    {
        case TPCCSEND:
            SendResponse(pECB,pTPCC->SendMsg,pTPCC->szHeader);
            dwRslt = HSE_STATUS_SUCCESS_AND_KEEP_CONN;
            break;
        case TPCCSENDEND:
            SendResponse(pECB,pTPCC->SendMsg,pTPCC->szHeader);
            break;
        case TPCCENDNOW:
        default:
            break;
    }; // switch (TPCCHandler result)

HttpXit:

```

```

        if (uRslt != TPCCSEND && pTPCC->fp)
        {
            fprintf(pTPCC->fp, "%ld %s (%ld,%ld) \n", pTPCC->iTermId,
pTPCC->ErrTxt, pTPCC->sWId, pTPCC->sDId);
            fflush(pTPCC->fp);
        }

        return(dwRslt);
}; // HttpExtensionProc

//=====
//
// Function name: SendResponse
//
//=====
VOID SendResponse(EXTENSION_CONTROL_BLOCK * pECB,CHAR * pMsg,CHAR * pWork)
{
    DWORD dwMsgBytes;
    DWORD dwDataBytes;
    CHAR * pCL;
    HSE_SEND_HEADER_EX_INFO HeaderExInfo;
    dwMsgBytes = strlen(pMsg);
    pCL=strstr(pMsg,CTEXT);
    dwDataBytes = dwMsgBytes - iHHdrLen;
    wsprintf(pWork,"%4ld",dwDataBytes);
    pCL += iCTextLen;
    strncpy(pCL,pWork,4);
    HeaderExInfo.pszHeader = pMsg;
    HeaderExInfo.cchHeader = dwMsgBytes;
    HeaderExInfo.pszStatus = "200 OK";
    HeaderExInfo.cchStatus = 6;
    HeaderExInfo.fKeepConn = TRUE;
    (*pECB->ServerSupportFunction)
        (pECB->ConnID,
        HSE_REQ_SEND_RESPONSE_HEADER_EX,
        &HeaderExInfo,
        NULL,
        NULL);
}; // SendResponse

//=====
//
// Function name: ReadRegistry
//
// Sets global operational parameters from registry if they exist.
// Otherwise, compiled in defaults apply.
//
// Result:
//     FALSE    Registry entry found
//     TRUE     Registry entry does not exist
//
//=====
BOOL ReadRegistry(VOID)
{
    HKEY hkTPCC;
    DWORD dwMax;
    DWORD dwRT;
    INT i;
    CHAR szValue[100];

```

```

if (RegOpenKeyEx(HKEY_LOCAL_MACHINE,"SOFTWARE\\Unisys\\TPCC",0,
KEY_READ, &hkTPCC) != ERROR_SUCCESS )
return(TRUE);
dwMax = sizeof(szValue);
if (RegQueryValueEx(hkTPCC,"EVENTLOG",0,&dwRT,(BYTE *) &szValue,&dwMax)
== ERROR_SUCCESS)
{
if (abs(atoi(szValue) == 0))
bSetEventLog = FALSE;
else
bSetEventLog = TRUE;
};
dwMax = sizeof(szValue);
if (RegQueryValueEx(hkTPCC,"CONSOLE",0,&dwRT,(BYTE *) &szValue,&dwMax)
== ERROR_SUCCESS )
{
if (abs(atoi(szValue) == 0))
bSetConsole = FALSE;
else
bSetConsole = TRUE;
};
dwMax = sizeof(szValue);
if (RegQueryValueEx(hkTPCC,"DIAGLEVEL",0,&dwRT,(BYTE *)
&szValue,&dwMax)
== ERROR_SUCCESS )
{
i = atoi(szValue);
if (i < DIAG_FORCE)
i = DIAG_FORCE;
else
if (i > DIAG_INFO)
i = DIAG_INFO;
uSetDiagLevel = i;
};
dwMax = sizeof(szValue);
if (RegQueryValueEx(hkTPCC,"MAXTERMS",0,&dwRT,(BYTE *) &szValue,&dwMax)
== ERROR_SUCCESS )
{
iMaxTerms = abs(atoi(szValue));
};
dwMax = sizeof(szValue);
if (RegQueryValueEx(hkTPCC,"DELIVERYTHREADS",0,&dwRT,(BYTE *)
&szValue,&dwMax)
== ERROR_SUCCESS )
{
lSetDThreads = abs(atoi(szValue));
};
dwMax = sizeof(szValue);
if (RegQueryValueEx(hkTPCC,"DQSIZE",0,&dwRT,(BYTE *) &szValue,&dwMax)
== ERROR_SUCCESS )
{
lSetDQSize = abs(atoi(szValue));
};
dwMax = sizeof(szValue);
if (RegQueryValueEx(hkTPCC,"DQPATH",0,&dwRT,(BYTE *) &szValue,&dwMax)
== ERROR_SUCCESS )
{
strcpy(szSetPath,szValue);
};
RegCloseKey(hkTPCC);
return(FALSE);

```

```
}; // ReadRegistry
```

tpcchandler.h

```

// tpcchandler.h
//
// Copyright Unisys, 1999

#define MAX_MSG_SZ 5000

typedef struct
{
LPVOID ConnID; // Active Connection Id
#ifdef LONG WID
LONG sWId; // TPCC WareHouse Id
#else
SHORT sWId; // TPCC WareHouse Id
#endif
SHORT sDId; // TPCC District Id
INT iSyncId; // TPCC Sync Id
INT iTermId; // TPCC Term Id
UINT uFormId; // TPCC Form Id
INT iStatusId; // TPCC Status Id
CHAR ErrTxt[500]; // Error text
CHAR szWork[200]; // Thread work area
CHAR szHeader[100]; // HTTP work area
CHAR * RecvMsg; // HTML message from ECB
CHAR SendMsg[MAX_MSG_SZ]; // HTML work area
TMON_STATE tsTMon; // TMon Interface
FILE *fp; // file for error
info
} TPCC_STATE;

BOOL TPCCclear(TPCC_STATE * pTPCC);
UINT TPCCHandler(TPCC_STATE * pTPCC);

```

tpcchandler.cpp

```

// tpcchandler.cpp
//
// Copyright Unisys, 1999
//
#include <windows.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

#include "..\tpccsvr\tpcc.h"
#include "tmon.h"
#include "diagio.h"
#include "delivery.h"
#include "tpcchandler.h"
#include "term.h"

#define INIT_RETRY 0

```

```

// pTPCC->iFormId - TPCC forms enumeration.
#define FORM_NULL 0
#define FORM_LOGON 1
#define FORM_MENU 2
#define FORM_NEWORDER 3
#define FORM_PAYMENT 4
#define FORM_DELIVERY 5
#define FORM_ORDERSTATUS 6
#define FORM_STOCKLEVEL 7
#define FORM_EXIT 8
#define FORM_MAX 9

// CMD= HTML Command Enumeration and Name
#define CMD_NULL 0
#define CMD_PROCESS 1
#define CMD_NEWORDER_FORM 2
#define CMD_PAYMENT_FORM 3
#define CMD_DELIVERY_FORM 4
#define CMD_ORDERSTATUS_FORM 5
#define CMD_STOCKLEVEL_FORM 6
#define CMD_EXIT 7
#define CMD_SUBMIT 8
#define CMD_MENU_FORM 9
#define CMD_MAX 10

static CHAR * szCmds[] =
{
    "Unknown",
    "Process",
    "..NewOrder..",
    "..Payment..",
    "..Delivery..",
    "..Order-Status..",
    "..Stock-Level..",
    "..Exit..",
    "Submit",
    "Menu"
};

static CHAR * szFormLogin =
HTTPhdr "<HTML>"
"<HEAD><TITLE>Welcome To TPC-C</TITLE></HEAD><BODY>"
"Please Identify your Warehouse and District for this session.<BR>"
"<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
"<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"0\">"
"<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"1\">"
"<INPUT TYPE=\"hidden\" NAME=\"TERMID\" VALUE=\"-2\">"
"<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"0\">"
#ifdef LONG_WID
"Warehouse ID <INPUT NAME=\"w_id\" SIZE=6><BR>"
#else
"Warehouse ID <INPUT NAME=\"w_id\" SIZE=4><BR>"
#endif
"District ID <INPUT NAME=\"d_id\" SIZE=2><BR>"
"<HR>"
"<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Submit\">"
"</FORM>";

static CHAR * szMenuList =
"<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..\">";

static CHAR * HTMLTrailer =
"</BODY></HTML>";

static CHAR * TERMIDTOKEN = "TERMID=";
static CHAR * SYNCIDTOKEN = "SYNCID=";
static CHAR * FORMIDTOKEN = "FORMID=";
static CHAR * STATUSIDTOKEN = "STATUSID=";
static CHAR * CMDTOKEN = "CMD=";
static CHAR * NEWORDER_SERVICE = "NEWORDER";
static CHAR * PAYMENT_SERVICE = "PAYMENT";
static CHAR * ORDERSTATUS_SERVICE = "ORDERSTS";
static CHAR * DELIVERY_SERVICE = "DELIVERY";
static CHAR * STOCKLEVEL_SERVICE = "STOCKLVL";
static CHAR * ZIPPIC = "XXXXX-XXXX";

BOOL ProcessLogin(CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC);
BOOL ProcessForm(CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC);
BOOL ProcessNewOrder(CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC);
BOOL ProcessPayment(CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC);
BOOL ProcessDelivery(CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC);
BOOL ProcessOrderStatus(CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC);
BOOL ProcessStockLevel(CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC);
VOID FormatLogin(CHAR * pMsg, CHAR * pAddText);
BOOL GetHidden(CHAR * pMsg, UINT * uFormId, INT * iSyncId, INT * iTermId);
BOOL GetCmd(CHAR * pMsg, CHAR * pWork, UINT uLen);
BOOL GetLongKey(LONG * lRslt, CHAR * pHTML, CHAR * pKey, TPCC_STATE * pTPCC);
BOOL GetIntKey(INT * iRslt, CHAR * pHTML, CHAR * pKey, TPCC_STATE * pTPCC);
BOOL GetShortKey(SHORT * sRslt, CHAR * pHTML, CHAR * pKey, TPCC_STATE * pTPCC);
BOOL GetStringKey(CHAR * szRslt, CHAR * pHTML, CHAR * pKey,
    TPCC_STATE * pTPCC, UINT uMax);
BOOL GetAmountKey(DOUBLE * dRslt, CHAR * pHTML, CHAR * pKey,
    TPCC_STATE * pTPCC);
BOOL GetKeyValue(CHAR * pHTML, CHAR * pKey, CHAR * pValue, UINT uMax);
VOID FormatLogin(CHAR * pOut, CHAR * pAddText);
VOID FormatMenu(CHAR * pOut, TPCC_STATE * pTPCC);
VOID FormatNewOrder(CHAR * pOut, TPCC_STATE * pTPCC);
VOID FormatPayment(CHAR * pOut, TPCC_STATE * pTPCC);
VOID FormatDelivery(CHAR * pOut, TPCC_STATE * pTPCC);
VOID FormatOrderStatus(CHAR * pOut, TPCC_STATE * pTPCC);
VOID FormatStockLevel(CHAR * pOut, TPCC_STATE * pTPCC);
INT FormatFormHdr(CHAR * pOut, CHAR * pTitle, TPCC_STATE * pTPCC);
INT FormatRespHdr(CHAR * pOut, CHAR * pTitle, TPCC_STATE * pTPCC);
VOID FormatString(CHAR * pOut, CHAR * pPic, CHAR * pIn);
VOID UtilStrCpy(CHAR * pDest, CHAR * pSrc, INT n);
BOOL CheckNumeric(CHAR * pNum);
void WriteEventLog(char * pMsg, bool bError);

//=====
//
// Function name: TPCCclear
//
//=====
BOOL TPCCclear(TPCC_STATE * pTPCC)
{
    pTPCC->ConnID = 0;
}

```

```

pTPCC->sWId = 0;
pTPCC->sDId = 0;
pTPCC->iSyncId = 0;
pTPCC->iTermId = -2;
pTPCC->uFormId = FORM_NULL;
pTPCC->iStatusId = 0;
strcpy(pTPCC->ErrTxt, "");
return (FALSE);
}; // TPCCclear

//=====
//
// Function name: TPCCHandler
//
//=====
UINT TPCCHandler(TPCC_STATE * pTPCC)
{
    INT iSyncId;
    INT iTermId;
    UINT uCmdId;
    UINT uRslt = TPCCSEND; // default error handling
    TERM_STATE * pTerm;

    pTPCC->iStatusId = STATUS_OK;
    if (GetHidden(pTPCC->RecvMsg, &pTPCC->uFormId, &iSyncId, &iTermId))
    {
        uRslt = TPCCSEND;
        FormatLogin(pTPCC->SendMsg, pTPCC->ErrTxt);
        goto HdlrXit;
    };
    if (iTermId > 0)
    {
        pTerm = TermGet(iTermId);
        if (pTerm == NULL)
        {
            uRslt = TPCCSEND;
            strcpy(pTPCC->ErrTxt, "Invalid Term Id");
            FormatLogin(pTPCC->SendMsg, pTPCC->ErrTxt);
            goto HdlrXit;
        };
        pTPCC->sWId = pTerm->sWId;
        pTPCC->sDId = pTerm->sDId;
        pTPCC->iSyncId = pTerm->iSyncId;
        pTPCC->iTermId = pTerm->iTermId;
    };
    uCmdId = GetCmd(pTPCC->RecvMsg, pTPCC->szWork, sizeof(pTPCC->szWork));
    // Except for Submit(log in), sWId must already be set
    if (pTPCC->sWId == 0 && uCmdId != CMD_SUBMIT)
    {
        strcpy(pTPCC->ErrTxt, "Must log in first!");
        FormatLogin(pTPCC->SendMsg, pTPCC->ErrTxt);
        uRslt = TPCCSEND;
        goto HdlrXit;
    };
    // Check for multiple log in attempts
    if (pTPCC->sWId != 0 && uCmdId == CMD_SUBMIT)
    {
        strcpy(pTPCC->ErrTxt, ERRTXT_ALREADY_LOGGEDIN);
        pTPCC->iStatusId = ERR_ALREADY_LOGGEDIN;
        FormatMenu(pTPCC->SendMsg, pTPCC);
        uRslt = TPCCSEND;
    }
}

```

```

goto HdlrXit;
};
// If not logging in, validate hidden fields
if (uCmdId != CMD_SUBMIT)
{
    if (iTermId != pTPCC->iTermId || iTermId != iSyncId)
    {
        wsprintf(pTPCC->ErrTxt, "%s: Received %ld, %ld (%ld)",
            ERRTXT_TERMID, iTermId, iSyncId, pTPCC->iTermId);
        pTPCC->iStatusId = ERR_TERMID;
        FormatMenu(pTPCC->SendMsg, pTPCC);
        goto HdlrXit;
    };
};
// Process the command
switch (uCmdId)
{
    case CMD_SUBMIT:
        ProcessLogin(pTPCC->RecvMsg, pTPCC->SendMsg, pTPCC);
        break;
    case CMD_MENU_FORM:
        FormatMenu(pTPCC->SendMsg, pTPCC);
        break;
    case CMD_PROCESS:
        ProcessForm(pTPCC->RecvMsg, pTPCC->SendMsg, pTPCC);
        break;
    case CMD_NEWORDER_FORM:
        FormatNewOrder(pTPCC->SendMsg, pTPCC);
        break;
    case CMD_PAYMENT_FORM:
        FormatPayment(pTPCC->SendMsg, pTPCC);
        break;
    case CMD_DELIVERY_FORM:
        FormatDelivery(pTPCC->SendMsg, pTPCC);
        break;
    case CMD_ORDERSTATUS_FORM:
        FormatOrderStatus(pTPCC->SendMsg, pTPCC);
        break;
    case CMD_STOCKLEVEL_FORM:
        FormatStockLevel(pTPCC->SendMsg, pTPCC);
        break;
    case CMD_EXIT:
        TermFree(pTPCC->iTermId);
        strcpy(pTPCC->ErrTxt, "Logged Off");
        FormatLogin(pTPCC->SendMsg, pTPCC->ErrTxt);
        goto HdlrXit;
    default:
        strcpy(pTPCC->ErrTxt, ERRTXT_CMD_UNKNOWN);
        pTPCC->iStatusId = ERR_CMD_UNKNOWN;
        if (pTPCC->sWId == 0)
            FormatLogin(pTPCC->SendMsg, pTPCC->ErrTxt);
        else
            FormatMenu(pTPCC->SendMsg, pTPCC);
        break;
}; // switch (uCmdId)

uRslt = TPCCSEND;

HdlrXit:
return (uRslt);

```



```

}; // TPCCHandler

//=====
//
// Function name: ProcessLogin
//
// ProcessLogin extracts WId and DId from the incoming form. Assumes
// log in has not previously completed (sWId == 0 already verified).
//
// Result:
// FALSE - log in successful, sWId and sDId set in pTPCC,
// pOut contains menu.
// TRUE - log in failed, pOut contains log in form with
// error message.
//
//=====
BOOL ProcessLogin(CHAR * pIn,CHAR * pOut,TPCC_STATE * pTPCC)
{
#ifdef LONG_WID
    LONG sWId;
#else
    SHORT sWId;
#endif
    SHORT sDId;
    TERM_STATE * pTerm;

#ifdef LONG_WID
    if (GetLongKey(&sWId,pIn,"w_id",pTPCC))
#else
    if (GetShortKey(&sWId,pIn,"w_id",pTPCC))
#endif
    #endif
    {
        FormatLogin(pOut,pTPCC->ErrTxt);
        return(TRUE);
    };
    if (sWId < 1)
    {
        sprintf(pTPCC->ErrTxt,"Warehouse Id (%d) Invalid",sWId);
        pTPCC->iStatusId = ERR_WID_INVALID;
        FormatLogin(pOut,pTPCC->ErrTxt);
        return(TRUE);
    };
    if (GetShortKey(&sDId,pIn,"d_id",pTPCC))
    {
        FormatLogin(pOut,pTPCC->ErrTxt);
        return(TRUE);
    };
    if (sDId < MIN_DId || sDId > MAX_DId)
    {
        sprintf(pTPCC->ErrTxt,"DId Out of Range(%ld,%ld) - %ld",
            MIN_DId,MAX_DId,sDId);
        pTPCC->iStatusId = ERR_DID_INVALID;
        FormatLogin(pOut,pTPCC->ErrTxt);
        return(TRUE);
    };
    pTerm = TermAlloc();
    if (pTerm == NULL)
    {
        sprintf(pTPCC->ErrTxt,"Unable to Allocate Terminal Entry");
        pTPCC->iStatusId = ERR_TERM_ALLOC;
    }
}

```

```

    FormatLogin(pOut,pTPCC->ErrTxt);
    return(TRUE);
};
pTerm->ConnID = pTPCC->ConnID;
pTerm->iSyncId = pTerm->iTermId;
pTerm->sWId = abs(sWId);
pTerm->sDId = abs(sDId);
pTPCC->iTermId = pTerm->iTermId;
pTPCC->iSyncId = pTerm->iSyncId;
pTPCC->sWId = pTerm->sWId;
pTPCC->sDId = pTerm->sDId;
FormatMenu(pOut,pTPCC);
return(FALSE);
}; // ProcessLogin

//=====
//
// Function name: ProcessForm
//
// ProcessForm uses pTPCC->uFormId to determine which form input is
// present and ready for processing. Actual processing is done by
// the form specific routine.
//
// Result:
// FALSE - form processed, pOut contains response.
// TRUE - error processing form input, pOut contains reason.
//
//=====
BOOL ProcessForm(CHAR * pIn,CHAR * pOut,TPCC_STATE * pTPCC)
{
    switch (pTPCC->uFormId )
    {
        case FORM_NEWORDER:
            return(ProcessNewOrder(pIn,pOut,pTPCC));
        case FORM_PAYMENT:
            return(ProcessPayment(pIn,pOut,pTPCC));
        case FORM_DELIVERY:
            return(ProcessDelivery(pIn,pOut,pTPCC));
        case FORM_ORDERSTATUS:
            return(ProcessOrderStatus(pIn,pOut,pTPCC));
        case FORM_STOCKLEVEL:
            return(ProcessStockLevel(pIn,pOut,pTPCC));
        default:
            sprintf(pTPCC->ErrTxt,"%s (%ld)",
                ERRTXT_FORM_UNKNOWN,pTPCC->uFormId);
            pTPCC->iStatusId = ERR_FORM_UNKNOWN;
            FormatMenu(pOut,pTPCC);
            break;
    }
    return(TRUE);
}; // ProcessForm

//=====
//
// Function name: ProcessNewOrder
//
// ProcessNewOrder extracts the input data fields from pIn, processes
// the data, and returns a response in pOut.
//
// Result:
// FALSE - NewOrder processed successfully.

```

```

//      TRUE - NewOrder processing failed.
//
//=====
BOOL ProcessNewOrder(CHAR * pIn,CHAR * pOut,TPCC_STATE * pTPCC)
{
    NEW_ORDER_DATA * pnod;
    TMON_STATE * pTMon;
    CHAR szKey[20];
    CHAR * ptr;
    INT iInx;
    UINT u;
    UINT uLine;
    HRESULT hr;
    int iSize;
    int retCnt = 0;

    pTMon = &pTPCC->tsTMon;
    pnod = (NEW_ORDER_DATA *) pTMon->pTxnData;
    ZeroMemory(pnod,sizeof(NEW_ORDER_DATA));
    pnod->w_id = pTPCC->sWId;
    if (GetShortKey(&pnod->d_id,pIn,"DID*",pTPCC))
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (pnod->d_id < MIN_DId || pnod->d_id > MAX_DId)
    {
        wsprintf(pTPCC->ErrTxt,"DId Out of Range(%ld,%ld) - %ld",
            MIN_DId,MAX_DId,pnod->d_id);
        pTPCC->iStatusId = ERR_DID_INVALID;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (GetLongKey(&pnod->c_id,pIn,"CID*",pTPCC))
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    pnod->o_ol_cnt = 0;
    ptr = pIn;
    for(u=0, uLine=0; u < MAX_OL; u++)
    {
        wsprintf(szKey,"SP%2.2d*",u);
        ptr = strstr(ptr,szKey);
#ifdef LONG_WID
        if (GetLongKey(&pnod->Ol[uLine].ol_supply_w_id,ptr,szKey,pTPCC))
#else
        if (GetShortKey(&pnod->Ol[uLine].ol_supply_w_id,ptr,szKey,pTPCC))
#endif
        {
            FormatMenu(pOut,pTPCC);
            return(TRUE);
        };
        wsprintf(szKey,"IID%2.2d*",u);
        if (GetLongKey(&pnod->Ol[uLine].ol_i_id,ptr,szKey,pTPCC))
        {
            FormatMenu(pOut,pTPCC);
            return(TRUE);
        };
        wsprintf(szKey,"Qty%2.2d*",u);
        if (GetShortKey(&pnod->Ol[uLine].ol_quantity,ptr,szKey,pTPCC))

```

```

{
    FormatMenu(pOut,pTPCC);
    return(TRUE);
};
if (pnod->Ol[uLine].ol_i_id != 0)
{
    if (pnod->Ol[uLine].ol_supply_w_id < 1)
    {
        wsprintf(pTPCC->ErrTxt,
            "Order Line %ld Contains Invalid WId %ld",
            u + 1,pnod->Ol[uLine].ol_supply_w_id);
        pTPCC->iStatusId = ERR_WID_INVALID;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (pnod->Ol[uLine].ol_quantity < MIN_QUANTITY ||
        pnod->Ol[uLine].ol_quantity > MAX_QUANTITY)
    {
        wsprintf(pTPCC->ErrTxt,
            "Order Line %ld Contains Invalid Qty %d",
            u + 1,pnod->Ol[uLine].ol_quantity);
        pTPCC->iStatusId = ERR_QUANTITY_INVALID;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    uLine++;
} // if (ol_i_id !=0)
else
{
    if (pnod->Ol[uLine].ol_supply_w_id != 0)
    {
        wsprintf(pTPCC->ErrTxt,
            "Order Line %ld WId Supplied with No Item",u + 1);
        pTPCC->iStatusId = ERR_OL_INVALID;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (pnod->Ol[uLine].ol_quantity != 0)
    {
        wsprintf(pTPCC->ErrTxt,
            "Order Line %ld Qty Supplied with No Item",u + 1);
        pTPCC->iStatusId = ERR_OL_INVALID;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
}; // empty order line
}; // for (u < MAX_OL)
pnod->o_ol_cnt = uLine;
if (pnod->o_ol_cnt < MIN_OL)
{
    wsprintf(pTPCC->ErrTxt,"Too Few Order Lines %d",pnod->o_ol_cnt);
    pTPCC->iStatusId = ERR_OL_COUNT;
    FormatMenu(pOut,pTPCC);
    return(TRUE);
};
iSize = pTMon->iSize;
do
{
    hr = pTMon->pIAllTxn->NewOrder(&iSize,(unsigned char*)&pTMon-
>pTxnData);
    if (retCnt > 0) Sleep(1000);

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}while ((FAILED(hr)) && (retCnt++ < INIT_RETRY));
if (FAILED(hr))
{
    pTPCC->iStatusId = ERR_TM_INTERFACE;
    wprintf(pTPCC->ErrTxt,
        "COM Interface to NewOrder Call Failed, HRESULT %x",
        hr);
    FormatMenu(pOut,pTPCC);
    return(TRUE);
};
pnod = (NEW_ORDER_DATA *) pTMon->pTxnData;
// Exclude invalid item id case
if (pnod->bTPRslt && pnod->iTPRslt < SVC_NOERROR)
{
    wprintf(pTPCC->ErrTxt,
        "New Order Service Returned Error(%ld): %s",
        pnod->iTPRslt, pnod->execution_status);
    pTPCC->iStatusId = ERR_SERVICE_RSLT;
    FormatMenu(pOut,pTPCC);
    return(TRUE);
};
if (pnod->iTPRslt == SVC_BADITEMID)
    pTPCC->iStatusId = INVALID_IID;

iInx = FormatRespHdr(pOut, "TPC-C New Order", pTPCC);
if (!pnod->bTPRslt)
{
    iInx += wprintf(pOut + iInx,
        "<PRE>
                                     New Order<BR>"
#ifdef LONG_WID
        "Warehouse: %6.6d   District: %2.2d           "
#else
        "Warehouse: %4.4d   District: %2.2d           "
#endif
        "Date: %2.2d-%2.2d-%4.4d %2.2d:%2.2d:%2.2d <BR>"
        "Customer: %4.4d   Name: %-16s   Credit: %-2s   ",
        pnod->w_id, pnod->d_id,
        pnod->o_entry_d.day, pnod->o_entry_d.month,
        pnod->o_entry_d.year, pnod->o_entry_d.hour,
        pnod->o_entry_d.minute, pnod->o_entry_d.second,
        pnod->c_id, pnod->c_last, pnod->c_credit);
    iInx += sprintf(pOut + iInx,
        "%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>",
        pnod->c_discount * 100, pnod->o_id, pnod->o_ol_cnt, pnod->w_tax *
100, pnod->d_tax * 100);
    for (u = 0; u < (UINT) pnod->o_ol_cnt; u++)
    {
        iInx += sprintf(pOut + iInx,
#ifdef LONG_WID
        "   %6.6d   %6.6d   %-24s   %2.2d   %3.3d   %1.1s   %6.2f
$%7.2f <BR>",
#else
        "   %4.4d   %6.6d   %-24s   %2.2d   %3.3d   %1.1s   %6.2f
$%7.2f <BR>",
#endif
        pnod->Ol[u].ol_supply_w_id, pnod->Ol[u].ol_i_id,

```

```

        pnod->Ol[u].ol_i_name, pnod->Ol[u].ol_quantity, pnod-
>Ol[u].ol_stock,
        pnod->Ol[u].ol_brand_generic, pnod->Ol[u].ol_i_price,
        pnod->Ol[u].ol_amount);
    };
    for(; u < MAX_OL; u++)
    {
        strcat(pOut + iInx, " <BR>");
        iInx += 5;
    };
    sprintf(pOut + iInx,
        "Execution Status: %24.24s           Total:  $%8.2f   "
        "</PRE><HR><BR>%s</FORM>%s",
        pnod->execution_status, pnod->total_amount,
        szMenuList, HTMLTrailer);
} // !bTPRslt
else
{
    iInx += wprintf(pOut + iInx,
        "<PRE>
                                     New Order<BR>"
#ifdef LONG_WID
        "Warehouse: %6.6d   District: %2.2d
Date:<BR>"
#else
        "Warehouse: %4.4d   District: %2.2d
Date:<BR>"
#endif
        "Customer: %4.4d   Name: %-16s   Credit: %-2s   "
        "%Disc:<BR>"
        "Order Number: %8.8d   Number of Lines:           W_tax:
D_tax:<BR><BR>"
        "  Supp_W   Item_Id   Item Name           Qty   Stock   B/G
Price   Amount<BR>",
        pnod->w_id, pnod->d_id,
        pnod->c_id, pnod->c_last, pnod->c_credit,
        pnod->o_id);
    for(u = 0; u < MAX_OL; u++)
    {
        strcat(pOut + iInx, " <BR>");
        iInx += 5;
    };
    iInx += wprintf(pOut + iInx,
        "Execution Status: %24.24s           Total:"
        "</PRE><HR><BR>%s</FORM>%s",
        pnod->execution_status, szMenuList, HTMLTrailer);
}; // bTPRslt

return(FALSE);
}; // ProcessNewOrder

//=====
//
// Function name: ProcessPayment
//
// ProcessPayment extracts the input data fields from pIn, processes
// the data, and returns a response in pOut.
//
// Result:
// FALSE - Payment processed successfully.
// TRUE - Payment processing failed.

```

```

//
//=====
BOOL ProcessPayment (CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC)
{
    PAYMENT_DATA * ppd;
    TMON_STATE * pTMon;
    CHAR szWork1[60];
    CHAR szZip1[20];
    CHAR szZip2[20];
    CHAR szZip3[20];
    INT iInx;
    HRESULT hr;
    int iSize;
    int retCnt = 0;

    pTMon = &pTPCC->tsTMon;
    ppd = (PAYMENT_DATA *) pTMon->pTxnData;
    ZeroMemory(ppd, sizeof(PAYMENT_DATA));
    ppd->w_id = pTPCC->sWid;
    // Get and validate DID
    if (GetShortKey(&ppd->d_id, pIn, "DID*", pTPCC))
    {
        FormatMenu(pOut, pTPCC);
        return(TRUE);
    };
    if (ppd->d_id < MIN_DID || ppd->d_id > MAX_DID)
    {
        wsprintf(pTPCC->ErrTxt, "DID Out of Range(%ld,%ld) - %ld",
            MIN_DID, MAX_DID, ppd->d_id);
        pTPCC->iStatusId = ERR_DID_INVALID;
        FormatMenu(pOut, pTPCC);
        return(TRUE);
    };
    // Get and validate customer Id and name
    if (GetLongKey(&ppd->c_id, pIn, "CID*", pTPCC))
    {
        FormatMenu(pOut, pTPCC);
        return(TRUE);
    };
    if (GetStringKey(ppd->c_last, pIn, "CLT*", pTPCC, NAME_LEN))
    {
        FormatMenu(pOut, pTPCC);
        return(TRUE);
    };
    if (ppd->c_id == 0 && ppd->c_last[0] == 0)
    {
        strcpy(pTPCC->ErrTxt, "Error - Customer Id and Name Empty");
        pTPCC->iStatusId = ERR_IDANDNAME_EMPTY;
        FormatMenu(pOut, pTPCC);
        return(TRUE);
    };
    if (ppd->c_id != 0 && ppd->c_last[0] != 0)
    {
        strcpy(pTPCC->ErrTxt,
            "Error - Specify Customer Id or Name, not Both");
        pTPCC->iStatusId = ERR_IDANDNAME_ENTERED;
        FormatMenu(pOut, pTPCC);
        return(TRUE);
    };
    // Get and validate customer DID
    if (GetShortKey(&ppd->c_d_id, pIn, "CDI*", pTPCC))

```

```

{
    FormatMenu(pOut, pTPCC);
    return(TRUE);
};
if (ppd->c_d_id < MIN_DID || ppd->c_d_id > MAX_DID)
{
    wsprintf(pTPCC->ErrTxt, "Cust DID Out of Range(%ld,%ld) - %ld",
        MIN_DID, MAX_DID, ppd->d_id);
    pTPCC->iStatusId = ERR_DID_INVALID;
    FormatMenu(pOut, pTPCC);
    return(TRUE);
};
// Get and validate customer WID
#ifdef LONG_WID
    if (GetLongKey(&ppd->c_w_id, pIn, "CWI*", pTPCC))
#else
    if (GetShortKey(&ppd->c_w_id, pIn, "CWI*", pTPCC))
#endif
{
    FormatMenu(pOut, pTPCC);
    return(TRUE);
};
if (ppd->c_w_id < 1)
{
    wsprintf(pTPCC->ErrTxt,
        "Payment Contains Invalid Customer WId %ld",
        ppd->c_w_id);
    pTPCC->iStatusId = ERR_WID_INVALID;
    FormatMenu(pOut, pTPCC);
    return(TRUE);
};
// Get and validate amount
if (GetAmountKey(&ppd->h_amount, pIn, "HAM*", pTPCC))
{
    FormatMenu(pOut, pTPCC);
    return(TRUE);
};
if (ppd->h_amount <= 0)
{
    wsprintf(pTPCC->ErrTxt,
        "Payment Amount Negative or Missing");
    pTPCC->iStatusId = ERR_AMOUNT_INVALID;
    FormatMenu(pOut, pTPCC);
    return(TRUE);
};
iSize = pTMon->iSize;
do
{
    hr = pTMon->pIAllTxn->Payment(&iSize, (unsigned char**) &pTMon-
    >pTxnData);
    if (retCnt > 0) Sleep(1000);
} while ((FAILED(hr)) && (retCnt++ < INIT_RETRY));

if (FAILED(hr))
{
    pTPCC->iStatusId = ERR_TM_INTERFACE;
    wsprintf(pTPCC->ErrTxt,
        "COM Interface to Payment Call Failed, HRESULT %x",
        hr);
    FormatMenu(pOut, pTPCC);
    return(TRUE);
}

```

```

};
ppd = (PAYMENT_DATA *) pTMon->pTxnData;
if (ppd->bTPRslt)
{
    wsprintf(pTPCC->ErrTxt,
        "Payment Service Returned Error(%ld): %s",
        ppd->iTPRslt, ppd->execution_status);
    pTPCC->iStatusId = ERR_SERVICE_RSLT;
    FormatMenu(pOut, pTPCC);
    return(TRUE);
};
iInx = FormatRespHdr(pOut, "TPC-C Payment", pTPCC);
FormatString(szZip1, ZIPPIC, ppd->w_zip);
FormatString(szZip2, ZIPPIC, ppd->d_zip);
FormatString(szZip3, ZIPPIC, ppd->c_zip);
FormatString(szWork1, "XXXXXX-XXX-XXX-XXXX", ppd->c_phone);
iInx += wsprintf(pOut + iInx,
    "<PRE>
        Date: %2.2d-%2.2d-%4.4d %2.2d:%2.2d:%2.2d <BR><BR>"
#ifdef LONG_WID
    "Warehouse: %6.6d"
#else
    "Warehouse: %4.4d"
#endif
    "
        District: %2.2d<BR>"
    "%-20s          %-20s<BR>"
    "%-20s          %-20s<BR>"
    "%-20s %-2s %10.10s    %-20s %-2s %10.10s<BR><BR>"
#ifdef LONG_WID
    "Customer: %4.4d Cust-Warehouse: %6.6d Cust-District: %2.2d<BR>"
#else
    "Customer: %4.4d Cust-Warehouse: %4.4d Cust-District: %2.2d<BR>"
#endif
    "Name:   %-16s %-2s %-16s      Since: %2.2d-%2.2d-%4.4d<BR>"
    "        %-20s          Credit: %-2s<BR>"
    "        %-20s          ",
    ppd->h_date.day, ppd->h_date.month,
    ppd->h_date.year, ppd->h_date.hour,
    ppd->h_date.minute, ppd->h_date.second,
    ppd->w_id, ppd->d_id,
    ppd->w_street_1, ppd->d_street_1,
    ppd->w_street_2, ppd->d_street_2,
    ppd->w_city, ppd->w_state, szZip1, ppd->d_city, ppd->d_state, szZip2,
    ppd->c_id, ppd->c_w_id, ppd->c_d_id,
    ppd->c_first, ppd->c_middle, ppd->c_last,
    ppd->c_since.day, ppd->c_since.month, ppd->c_since.year,
    ppd->c_street_1, ppd->c_credit, ppd->c_street_2);
iInx += sprintf(pOut + iInx, "%Disc:  %5.2f<BR>", ppd->c_discount *
100);
iInx += wsprintf(pOut + iInx,
    "
        %-20s %-2s %10.10s      Phone:  %-19.19s<BR><BR>",
    ppd->c_city, ppd->c_state, szZip3, szWork1);
iInx += sprintf(pOut + iInx,
    "Amount Paid:          $%7.2f      New Cust Balance: $%14.2f<BR>"
    "Credit Limit:        $%13.2f<BR><BR>",
    ppd->h_amount, ppd->c_balance, ppd->c_credit_lim);
if (ppd->c_credit[0] == 'B' && ppd->c_credit[1] == 'C')
{
    wsprintf(pOut + iInx,
        "Cust-Data: %50.50s<BR>          %50.50s<BR>"
        "%50.50s<BR>          %50.50s<BR>"

```

```

        "</PRE><HR><BR>%s</FORM>%s",
        ppd->c_data, (ppd->c_data + 50), (ppd->c_data + 100), (ppd->c_data +
150),
        szMenuList, HTMLTrailer);
    }
    else
    {
        wsprintf(pOut + iInx,
            "Cust-Data: <BR><BR><BR><BR>"
            "</PRE><HR><BR>%s</FORM>%s",
            szMenuList, HTMLTrailer);
    };
    return(FALSE);
}; // ProcessPayment
//=====
//
// Function name: ProcessDelivery
//
// ProcessDelivery extracts the input data fields from pIn, processes
// the data, and returns a response in pOut.
//
// Result:
// FALSE - Delivery processed successfully.
// TRUE - Delivery processing failed.
//
//=====
BOOL ProcessDelivery(CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC)
{
    DELIVERY_DATA * pdd;
    TMON_STATE * pTMon;
    INT iInx;

    pTMon = &pTPCC->tsTMon;
    pdd = (DELIVERY_DATA *) pTMon->pTxnData;
    ZeroMemory(pdd, sizeof(DELIVERY_DATA));
    pdd->w_id = pTPCC->swid;
    // Get and validate carrier id
    if (GetShortKey(&pdd->o_carrier_id, pIn, "OCD*", pTPCC))
    {
        FormatMenu(pOut, pTPCC);
        return(TRUE);
    };
    if (pdd->o_carrier_id < MIN_CARRIER ||
        pdd->o_carrier_id > MAX_CARRIER)
    {
        wsprintf(pTPCC->ErrTxt, "Carrier Id Out of Range(%ld,%ld) - %ld",
            MIN_CARRIER, MAX_CARRIER, pdd->o_carrier_id);
        pTPCC->iStatusId = ERR_CARRIER_INVALID;
        FormatMenu(pOut, pTPCC);
        return(TRUE);
    };
    GetLocalTime(&pdd->QTime);
    DeliveryPost(pdd);
    if (pdd->bTPRslt)
    {
        wsprintf(pTPCC->ErrTxt,
            "Delivery Post Returned Error(%ld): Queue Request Failed",
            pdd->iTPRslt);

```

```

    pTPCC->iStatusId = ERR_SERVICE_RSLT;
    FormatMenu(pOut,pTPCC);
    return(TRUE);
};
iInx = FormatRespHdr(pOut,"TPC-C Delivery",pTPCC);
iInx += sprintf(pOut + iInx,
    "<PRE>
    Delivery<BR>"
#ifdef LONG_WID
    "Warehouse: %6.6d<BR><BR>"
#else
    "Warehouse: %4.4d<BR><BR>"
#endif
    "Carrier Number: %2.2d<BR><BR>"
    "Execution Status: %25.25s<BR>"
    "</PRE><HR><BR>%s</FORM>%s",
    pdd->w_id,pdd->o_carrier_id,"Delivery has been queued.",
    szMenuList,HTMLTrailer);

return(FALSE);
}; // ProcessDelivery

//=====
//
// Function name: ProcessOrderStatus
//
// ProcessOrderStatus extracts the input data fields from pIn,
// processes the data, and returns a response in pOut.
//
// Result:
//     FALSE - OrderStatus processed successfully.
//     TRUE - OrderStatus processing failed.
//
//=====
BOOL ProcessOrderStatus(CHAR * pIn,CHAR * pOut,TPCC_STATE * pTPCC)
{
    ORDER_STATUS_DATA * posd;
    TMON_STATE * pTMon;
    INT i;
    INT iInx;
    HRESULT hr;
    int iSize;
    int retCnt = 0;

    pTMon = &pTPCC->tsTMon;
    posd = (ORDER_STATUS_DATA *) pTMon->pTxnData;
    ZeroMemory(posd,sizeof(ORDER_STATUS_DATA));
    posd->w_id = pTPCC->sWId;
    if (GetShortKey(&posd->d_id,pIn,"DID*",pTPCC))
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (posd->d_id < MIN_DId || posd->d_id > MAX_DId)
    {
        sprintf(pTPCC->ErrTxt,"DId Out of Range(%ld,%ld) - %ld",
            MIN_DId,MAX_DId,posd->d_id);
        pTPCC->iStatusId = ERR_DID_INVALID;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
};

```

```

    if (GetLongKey(&posd->c_id,pIn,"CID*",pTPCC))
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (GetStringKey(posd->c_last,pIn,"CLT*",pTPCC,NAME_LEN))
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (posd->c_id == 0 && posd->c_last[0] == 0)
    {
        strcpy(pTPCC->ErrTxt,"Error - Customer Id and Name Empty");
        pTPCC->iStatusId = ERR_IDANDNAME_EMPTY;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (posd->c_id != 0 && posd->c_last[0] != 0)
    {
        strcpy(pTPCC->ErrTxt,
            "Error - Specify Customer Id or Name, not Both");
        pTPCC->iStatusId = ERR_IDANDNAME_ENTERED;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    iSize = pTMon->iSize;
    do
    {
        hr = pTMon->pIAllTxn->OrderStatus(&iSize,(unsigned char*)&pTMon-
            >pTxnData);
        if (retCnt > 0) Sleep(1000);
    }while ((FAILED(hr)) && (retCnt++ < INIT_RETRY));

    if (FAILED(hr))
    {
        pTPCC->iStatusId = ERR_TM_INTERFACE;

        sprintf(pTPCC->ErrTxt,
            "COM Interface to OrderStatus Call Failed, HRESULT %x",hr);

        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    posd = (ORDER_STATUS_DATA *) pTMon->pTxnData;
    if (posd->bTPRslt)
    {
        sprintf(pTPCC->ErrTxt,
            "Order Status Service Returned Error(%ld): %s",
            posd->iTPRslt,posd->execution_status);
        pTPCC->iStatusId = ERR_SERVICE_RSLT;
        DiagIoWrite(pTPCC->ErrTxt,DIAG_FORCE);
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    iInx = FormatRespHdr(pOut,"TPC-C Order-Status",pTPCC);
    iInx += sprintf(pOut + iInx,
        "<PRE>
        Order-Status<BR>"
#ifdef LONG_WID
        "Warehouse: %6.6d District: %2.2d<BR>"
#else
        "Warehouse: %4.4d District: %2.2d<BR>"

```

```

#endif
    "Customer: %4.4d  Name: %-16s %-2s %-16s<BR>",
    posd->w_id,posd->d_id,
    posd->c_id,posd->c_first,posd->c_middle,posd->c_last);
    iInx += sprintf(pOut + iInx, "Cust-Balance: $%9.2f<BR><BR>", posd-
>c_balance);
    iInx += wsprintf(pOut + iInx,
    "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>",
    posd->o_id,posd->o_entry_d.day,posd->o_entry_d.month,
    posd->o_entry_d.year,posd->o_entry_d.hour,
    posd->o_entry_d.minute,posd->o_entry_d.second,
    posd->o_carrier_id);
    for(i = 0; i < posd->o_ol_cnt; i++)
    {
        iInx += sprintf(pOut + iInx,
#ifdef LONG_WID
            "%6.6d      %6.6d      %2.2d      $%8.2f      %2.2d-%2.2d-
%4.4d<BR>",
#else
            "%4.4d      %6.6d      %2.2d      $%8.2f      %2.2d-%2.2d-
%4.4d<BR>",
#endif
            posd->OlOrderStatusData[i].ol_supply_w_id,
            posd->OlOrderStatusData[i].ol_i_id,
            posd->OlOrderStatusData[i].ol_quantity,
            posd->OlOrderStatusData[i].ol_amount,
            posd->OlOrderStatusData[i].ol_delivery_d.day,
            posd->OlOrderStatusData[i].ol_delivery_d.month,
            posd->OlOrderStatusData[i].ol_delivery_d.year);
    };
    wsprintf(pOut + iInx,
    "<BR></PRE><HR><BR>%s</FORM>%s", szMenuList, HTMLTrailer);

    return(FALSE);
}; // ProcessOrderStatus

//=====
//
// Function name: ProcessStockLevel
//
// ProcessStockLevel extracts the input data fields from pIn,
// processes the data, and returns a response in pOut.
//
// Result:
// FALSE - StockLevel processed successfully.
// TRUE - StockLevel processing failed.
//=====
BOOL ProcessStockLevel(CHAR * pIn,CHAR * pOut,TPCC_STATE * pTPCC)
{
    STOCK_LEVEL_DATA * psld;
    TMON_STATE * pTMon;
    HRESULT hr;
    INT iInx;
    int iSize;
    int retCnt = 0;

    pTMon = &pTPCC->tsTMon;

```

```

    psld = (STOCK_LEVEL_DATA *) pTMon->pTxnData;
    ZeroMemory(psld, sizeof(STOCK_LEVEL_DATA));
    psld->w_id = pTPCC->sWId;
    psld->d_id = pTPCC->sDId;
    psld->low_stock = 0;
    psld->execution_status[0] = 0;
    if (GetShortKey(&psld->thresh_hold,pIn, "TT*",pTPCC))
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (psld->thresh_hold < MIN_THRESHOLD ||
        psld->thresh_hold > MAX_THRESHOLD)
    {
        wsprintf(pTPCC->ErrTxt, "Threshold Out of Range(%ld,%ld) - %ld",
            MIN_THRESHOLD,MAX_THRESHOLD,psld->thresh_hold);
        pTPCC->iStatusId = ERR_THRESHOLD_RANGE;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    iSize = pTMon->iSize;
    do
    {
        hr = pTMon->pIAllTxn->StockLevel(&iSize, (unsigned char**) &pTMon-
>pTxnData);
        if (retCnt > 0) Sleep(1000);
    }while ((FAILED(hr)) && (retCnt++ < INIT_RETRY));

    if (FAILED(hr))
    {
        pTPCC->iStatusId = ERR_TM_INTERFACE;
        wsprintf(pTPCC->ErrTxt,
            "COM Interface to StockLevel Call Failed, HRESULT %x",
            hr);
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    psld = (STOCK_LEVEL_DATA *) pTMon->pTxnData;
    if (psld->bTPRslt)
    {
        wsprintf(pTPCC->ErrTxt,
            "Stock Level Service Returned Error(%ld): %s",
            psld->iTPRslt,psld->execution_status);
        pTPCC->iStatusId = ERR_SERVICE_RSLT;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    iInx = FormatRespHdr(pOut, "TPC-C Stock Level",pTPCC);
    wsprintf(pOut + iInx,
    "<PRE>
                                Stock-Level<BR>"
#ifdef LONG_WID
    "Warehouse: %6.6d  District: %2.2d<BR><BR>"
#else
    "Warehouse: %4.4d  District: %2.2d<BR><BR>"
#endif
    "Stock Level Threshold: %2.2d<BR><BR>"
    "low stock: %3.3ld</PRE><BR><HR>"
    "%s</FORM>%s",
    pTPCC->sWId,pTPCC->sDId,psld->thresh_hold,psld->low_stock,

```

```

        szMenuList,HTMLTrailer);

return(FALSE);

}; // ProcessStockLevel

//=====
//
// Function name: GetHidden
//
//=====
BOOL GetHidden(CHAR * pMsg,UINT * uFormId,INT * iSyncId,INT * iTermId)
{
    CHAR * pPtr;
    BOOL bRslt = TRUE;

    // Extract TERMID
    pPtr = strstr(pMsg,TERMIDTOKEN);
    if (pPtr == NULL)
        goto xit;
    pPtr += strlen(TERMIDTOKEN);
    *iTermId = atoi(pPtr);

    // Extract SYNCID
    pPtr = strstr(pMsg,SYNCIDTOKEN);
    if (pPtr == NULL)
        goto xit;
    pPtr += strlen(SYNCIDTOKEN);
    *iSyncId = atoi(pPtr);

    // Extract FORMID
    pPtr = strstr(pMsg,FORMIDTOKEN);
    if (pPtr == NULL)
        goto xit;
    pPtr += strlen(FORMIDTOKEN);
    *uFormId = abs(atoi(pPtr));

    bRslt = FALSE;

xit:

    return(bRslt);

}; // GetHidden

//=====
//
// Function name: GetCmd
//
//=====
BOOL GetCmd(CHAR * pMsg,CHAR * pWork,UINT uLen)
{
    UINT u;
    CHAR * ptr;
    CHAR * pUpd;

    // Check for CMD key
    if (!ptr = strstr(pMsg,CMDTOKEN))
        return(CMD_NULL);
    ptr += sizeof(CMDTOKEN);
    pUpd = pWork;

```

```

while (*ptr && *ptr != '&')
    *pUpd++ = *ptr++;
*pUpd = 0;

// Convert command name into command index
for(u=0; u < CMD_MAX; u++)
{
    if (!strcmp(szCmds[u],pWork))
        return(u);
};

// Command string not found
return(CMD_NULL);

}; // GetCmd

//=====
//
// Function name: GetLongKey
//
//=====
BOOL GetLongKey(LONG * lRslt,CHAR * pHTML,CHAR * pKey,TPCC_STATE * pTPCC)
{
    if (GetKeyValue(pHTML,pKey,pTPCC->szWork,sizeof(pTPCC->szWork)))
    {
        wsprintf(pTPCC->ErrTxt,"Error - Missing %s Key",pKey);
        pTPCC->iStatusId = ERR_MISSING_KEY;
        return(TRUE);
    };
    if (pTPCC->szWork[0] != 0 )
    {
        if (CheckNumeric(pTPCC->szWork))
        {
            wsprintf(pTPCC->ErrTxt,"Error - %s Value Not Numeric",pKey);
            pTPCC->iStatusId = ERR_NOT_NUMERIC;
            return(TRUE);
        };
    };
    *lRslt = atol(pTPCC->szWork);
    return(FALSE);
}; // GetLongKey

//=====
//
// Function name: GetIntKey
//
//=====
BOOL GetIntKey(INT * iRslt,CHAR * pHTML,CHAR * pKey,TPCC_STATE * pTPCC)
{
    if (GetKeyValue(pHTML,pKey,pTPCC->szWork,sizeof(pTPCC->szWork)))
    {
        wsprintf(pTPCC->ErrTxt,"Error - Missing %s Key",pKey);
        pTPCC->iStatusId = ERR_MISSING_KEY;
        return(TRUE);
    };
    if (pTPCC->szWork[0] != 0 )
    {
        if (CheckNumeric(pTPCC->szWork))
        {
            wsprintf(pTPCC->ErrTxt,"Error - %s Value Not Numeric",pKey);
            pTPCC->iStatusId = ERR_NOT_NUMERIC;

```



```

        return(TRUE);
    };
};
*iRslt = atoi(pTPCC->szWork);
return(FALSE);
}; // GetIntKey

//=====
//
// Function name: GetShortKey
//
//=====
BOOL GetShortKey(SHORT * sRslt,CHAR * pHTML,CHAR * pKey,TPCC_STATE *
pTPCC)
{
    if (GetKeyValue(pHTML,pKey,pTPCC->szWork,sizeof(pTPCC->szWork)))
    {
        wsprintf(pTPCC->ErrTxt,"Error - Missing %s Key",pKey);
        pTPCC->iStatusId = ERR_MISSING_KEY;
        return(TRUE);
    };
    if (pTPCC->szWork[0] != 0 )
    {
        if (CheckNumeric(pTPCC->szWork))
        {
            wsprintf(pTPCC->ErrTxt,"Error - %s Value Not Numeric",pKey);
            pTPCC->iStatusId = ERR_NOT_NUMERIC;
            return(TRUE);
        };
    };
    *sRslt = (SHORT) atoi(pTPCC->szWork);
    return(FALSE);
}; // GetShortKey

//=====
//
// Function name: GetStringKey
//
//=====
BOOL GetStringKey(CHAR * szRslt,CHAR * pHTML,CHAR * pKey,
TPCC_STATE * pTPCC,UINT uMax)
{
    UINT uLen;
    if (GetKeyValue(pHTML,pKey,pTPCC->szWork,sizeof(pTPCC->szWork)))
    {
        wsprintf(pTPCC->ErrTxt,"Error - Missing %s Key",pKey);
        pTPCC->iStatusId = ERR_MISSING_KEY;
        return(TRUE);
    };
    uLen = strlen(pTPCC->szWork);
    if (uLen > uMax)
    {
        wsprintf(pTPCC->ErrTxt,
            "Error - %s Key Input (%ld) Too Long (%ld)"
            ,pKey,uLen,uMax);
        pTPCC->iStatusId = ERR_INPUT_TOOLONG;
        return(TRUE);
    };
    _strupr(pTPCC->szWork);
    strcpy(szRslt,pTPCC->szWork);
    return(FALSE);
};

```

```

}; // GetStringKey

//=====
//
// Function name: GetAmountKey
//
//=====
BOOL GetAmountKey(DOUBLE * dRslt,CHAR * pHTML,CHAR * pKey,
TPCC_STATE * pTPCC)
{
    CHAR * ptr;
    BOOL bInvalid = FALSE;

    if (GetKeyValue(pHTML,pKey,pTPCC->szWork,sizeof(pTPCC->szWork)))
    {
        wsprintf(pTPCC->ErrTxt,"Error - Missing %s Key",pKey);
        pTPCC->iStatusId = ERR_MISSING_KEY;
        return(TRUE);
    };
    ptr = pTPCC->szWork;
    while(*ptr)
    {
        if (*ptr == '.')
        {
            ptr++;
            if (!*ptr)
                break;
            if (*ptr < '0' || *ptr > '9')
            {
                bInvalid = TRUE;
                break;
            };
            ptr++;
            if (!*ptr)
                break;
            if (*ptr < '0' || *ptr > '9')
            {
                bInvalid = TRUE;
                break;
            };
            ptr++;
            if (*ptr)
            {
                bInvalid = TRUE;
                break;
            };
            break;
        }
        else
        if (*ptr < '0' || *ptr > '9')
        {
            bInvalid = TRUE;
            break;
        };
        ptr++;
    }; // while(!*ptr)

    if (!bInvalid)
        *dRslt = atof(pTPCC->szWork);
    else
    {

```

```

    wsprintf(pTPCC->ErrTxt,
        "Error - Invalid Amount Format (%s)",pTPCC->szWork);
    pTPCC->iStatusId = ERR_AMOUNT_BADFORM;
};

return(bInvalid);

}; // GetAmountKey

//=====
//
// Function name: GetKeyValue
// This function parses an HTTP formatted string for specific key
// values. HTTP keys terminate with '='. HTTP values terminate
// with an '&' or '\0'.
//
// Result:
// FALSE - Key found, string value return in pValue
// TRUE - Key not found
//
//=====
BOOL GetKeyValue(CHAR * pHTML,CHAR * pKey,CHAR * pValue,UINT uMax)
{
    CHAR * ptr;
    if (!ptr=strstr(pHTML,pKey))
        return(TRUE);
    if (!ptr=strchr(ptr,'='))
        return(TRUE);
    ptr++;
    uMax--;
    while (*ptr && *ptr != '&' && uMax)
    {
        *pValue++ = *ptr++;
        uMax--;
    };
    *pValue = 0;
    return(FALSE);
}; // GetKeyValue

//=====
//
// Function name: FormatLogin
//
//=====
VOID FormatLogin(CHAR * pOut,CHAR * pAddText)
{
    wsprintf(pOut, "%s<BR>%s<BR>%s",szFormLogin,pAddText,HTMLTrailer);
}; // FormatLogin

//=====
//
// Function name: FormatMenu
//
//=====
VOID FormatMenu(CHAR * pOut,TPCC_STATE * pTPCC)
{
    wsprintf(pOut,
        "%s<HTML><HEAD><TITLE>TPC-C MainMenu</TITLE></HEAD><BODY>"
        "Select Desired Transaction.<BR><HR>"
        "<FORM ACTION=\"tpcc.dll\METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"%d\">"

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        "<INPUT TYPE=\"hidden\" NAME=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "%s</FORM><BR>%s<BR>%s",
        HTTPHdr,pTPCC->iStatusId,pTPCC->iTermId,pTPCC->iSyncId,FORM_MENU,
        szMenuList,pTPCC->ErrTxt,HTMLTrailer);
}; // FormatMenu

//=====
//
// Function name: FormatNewOrder
//
//=====
VOID FormatNewOrder(CHAR * pOut,TPCC_STATE * pTPCC)
{
    INT iInx;
    pTPCC->uFormId = FORM_NEWORDER;
    iInx = FormatFormHdr(pOut,"TPC-C New Order",pTPCC);
    iInx += wsprintf(pOut + iInx,
        "<PRE>
        New Order<BR>"
#ifdef LONG_WID
        "Warehouse: %6.6d District: <INPUT NAME=\"DID*\" SIZE=1>"
        Date:<BR>",
#else
        "Warehouse: %4.4d District: <INPUT NAME=\"DID*\" SIZE=1>"
        Date:<BR>",
#endif
        pTPCC->swId);
    strcpy(pOut + iInx,
        "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>"
#ifdef LONG_WID
        " <INPUT NAME=\"SP00*\" SIZE=6> <INPUT NAME=\"IID00*\" SIZE=6>
    <INPUT NAME=\"Qty00*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP01*\" SIZE=6> <INPUT NAME=\"IID01*\" SIZE=6>
    <INPUT NAME=\"Qty01*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP02*\" SIZE=6> <INPUT NAME=\"IID02*\" SIZE=6>
    <INPUT NAME=\"Qty02*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP03*\" SIZE=6> <INPUT NAME=\"IID03*\" SIZE=6>
    <INPUT NAME=\"Qty03*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP04*\" SIZE=6> <INPUT NAME=\"IID04*\" SIZE=6>
    <INPUT NAME=\"Qty04*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP05*\" SIZE=6> <INPUT NAME=\"IID05*\" SIZE=6>
    <INPUT NAME=\"Qty05*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP06*\" SIZE=6> <INPUT NAME=\"IID06*\" SIZE=6>
    <INPUT NAME=\"Qty06*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP07*\" SIZE=6> <INPUT NAME=\"IID07*\" SIZE=6>
    <INPUT NAME=\"Qty07*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP08*\" SIZE=6> <INPUT NAME=\"IID08*\" SIZE=6>
    <INPUT NAME=\"Qty08*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP09*\" SIZE=6> <INPUT NAME=\"IID09*\" SIZE=6>
    <INPUT NAME=\"Qty09*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP10*\" SIZE=6> <INPUT NAME=\"IID10*\" SIZE=6>
    <INPUT NAME=\"Qty10*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP11*\" SIZE=6> <INPUT NAME=\"IID11*\" SIZE=6>
    <INPUT NAME=\"Qty11*\" SIZE=1><BR>"

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```

" <INPUT NAME=\ "SP12*\ " SIZE=6> <INPUT NAME=\ "IID12*\ " SIZE=6>
<INPUT NAME=\ "Qty12*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP13*\ " SIZE=6> <INPUT NAME=\ "IID13*\ " SIZE=6>
<INPUT NAME=\ "Qty13*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP14*\ " SIZE=6> <INPUT NAME=\ "IID14*\ " SIZE=6>
<INPUT NAME=\ "Qty14*\ " SIZE=1><BR>"
#else
" <INPUT NAME=\ "SP00*\ " SIZE=4> <INPUT NAME=\ "IID00*\ " SIZE=6>
<INPUT NAME=\ "Qty00*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP01*\ " SIZE=4> <INPUT NAME=\ "IID01*\ " SIZE=6>
<INPUT NAME=\ "Qty01*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP02*\ " SIZE=4> <INPUT NAME=\ "IID02*\ " SIZE=6>
<INPUT NAME=\ "Qty02*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP03*\ " SIZE=4> <INPUT NAME=\ "IID03*\ " SIZE=6>
<INPUT NAME=\ "Qty03*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP04*\ " SIZE=4> <INPUT NAME=\ "IID04*\ " SIZE=6>
<INPUT NAME=\ "Qty04*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP05*\ " SIZE=4> <INPUT NAME=\ "IID05*\ " SIZE=6>
<INPUT NAME=\ "Qty05*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP06*\ " SIZE=4> <INPUT NAME=\ "IID06*\ " SIZE=6>
<INPUT NAME=\ "Qty06*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP07*\ " SIZE=4> <INPUT NAME=\ "IID07*\ " SIZE=6>
<INPUT NAME=\ "Qty07*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP08*\ " SIZE=4> <INPUT NAME=\ "IID08*\ " SIZE=6>
<INPUT NAME=\ "Qty08*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP09*\ " SIZE=4> <INPUT NAME=\ "IID09*\ " SIZE=6>
<INPUT NAME=\ "Qty09*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP10*\ " SIZE=4> <INPUT NAME=\ "IID10*\ " SIZE=6>
<INPUT NAME=\ "Qty10*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP11*\ " SIZE=4> <INPUT NAME=\ "IID11*\ " SIZE=6>
<INPUT NAME=\ "Qty11*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP12*\ " SIZE=4> <INPUT NAME=\ "IID12*\ " SIZE=6>
<INPUT NAME=\ "Qty12*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP13*\ " SIZE=4> <INPUT NAME=\ "IID13*\ " SIZE=6>
<INPUT NAME=\ "Qty13*\ " SIZE=1><BR>"
" <INPUT NAME=\ "SP14*\ " SIZE=4> <INPUT NAME=\ "IID14*\ " SIZE=6>
<INPUT NAME=\ "Qty14*\ " SIZE=1><BR>"
#endif
"Execution Status:
Total:<BR><HR>"
" <INPUT TYPE=\ "submit\ "NAME=\ "CMD\ " VALUE=\ "Process\ ">"
" <INPUT TYPE=\ "submit\ "NAME=\ "CMD\ " VALUE=\ "Menu\ ">"
" </FORM></BODY></HTML>");
}; // FormatNewOrder

//=====
//
// Function name: FormatPayment
//
//=====
VOID FormatPayment (CHAR * pOut,TPCC_STATE * pTPCC)
{
INT iInx;
pTPCC->uFormId = FORM_PAYMENT;
iInx = FormatFormHdr (pOut, "TPC-C Payment", pTPCC);
iInx += sprintf (pOut + iInx,
" <PRE>
"Date:<BR><BR>"
Payment<BR><BR>"
#endif
#ifdef LONG_WID
"Warehouse: %6.6d",
#else

```

```

"Warehouse: %4.4d",
#endif
pTPCC->sWId);
strcpy (pOut + iInx,
" District: <INPUT NAME=\ "DID*\ "
SIZE=1><BR><BR><BR><BR><BR>"
"Customer: <INPUT NAME=\ "CID*\ " SIZE=4>"
#ifdef LONG_WID
"Cust-Warehouse: <INPUT NAME=\ "CWI*\ " SIZE=6> "
#else
"Cust-Warehouse: <INPUT NAME=\ "CWI*\ " SIZE=4> "
#endif
"Cust-District: <INPUT NAME=\ "CDI*\ " SIZE=1><BR>"
"Name: <INPUT NAME=\ "CLT*\ " SIZE=16>
Since:<BR>"
" Credit:<BR>"
" Disc:<BR>"
" Phone:<BR><BR>"
"Amount Paid: $<INPUT NAME=\ "HAM*\ " SIZE=7> New Cust
Balance:<BR>"
"Credit Limit:<BR><BR>Cust-Data: <BR><BR><BR><BR></PRE><HR>"
" <INPUT TYPE=\ "submit\ "NAME=\ "CMD\ " VALUE=\ "Process\ ">"
" <INPUT TYPE=\ "submit\ "NAME=\ "CMD\ " VALUE=\ "Menu\ ">"
" </FORM></BODY></HTML>");
}; // FormatPayment

//=====
//
// Function name: FormatDelivery
//
//=====
VOID FormatDelivery (CHAR * pOut,TPCC_STATE * pTPCC)
{
INT iInx;
pTPCC->uFormId = FORM_DELIVERY;
iInx = FormatFormHdr (pOut, "TPC-C Delivery", pTPCC);
wsprintf (pOut + iInx,
" <PRE>
Delivery<BR><BR>"
#ifdef LONG_WID
"Warehouse: %6.6d<BR><BR>"
#else
"Warehouse: %4.4d<BR><BR>"
#endif
"Carrier Number: <INPUT NAME=\ "OCD*\ " SIZE=1><BR><BR>"
"Execution Status:<BR></PRE><HR>"
" <INPUT TYPE=\ "submit\ "NAME=\ "CMD\ " VALUE=\ "Process\ ">"
" <INPUT TYPE=\ "submit\ "NAME=\ "CMD\ " VALUE=\ "Menu\ ">"
" </FORM></BODY></HTML>",
pTPCC->sWId);
}; // FormatDelivery

//=====
//
// Function name: FormatOrderStatus
//
//=====
VOID FormatOrderStatus (CHAR * pOut,TPCC_STATE * pTPCC)
{
INT iInx;
pTPCC->uFormId = FORM_ORDERSTATUS;
iInx = FormatFormHdr (pOut, "TPC-C Order-Status", pTPCC);

```

```

        wsprintf(pOut + iInx,
            "<PRE>
Order-Status<BR>"
#ifdef LONG WID
            "Warehouse: %6.6d  "
#else
            "Warehouse: %4.4d  "
#endif
            "District: <INPUT NAME=\"DID*\" SIZE=1><BR>"
            "Customer: <INPUT NAME=\"CID*\" SIZE=4>  Name:
<INPUT NAME=\"CLT*\" SIZE=23><BR>"
            "Cust-Balance:<BR><BR>"
            "Order-Number:          Entry-Date:          Carrier-
Number:<BR>"
            "Supply-W  Item-Id  Qty  Amount  Delivery-
Date<BR></PRE><HR>"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Process\">"
            "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">"
            "</FORM></BODY></HTML>",
            pTPCC->sWId);
}; // FormatOrderStatus

//=====
//
// Function name: FormatStockLevel
//
//=====
VOID FormatStockLevel (CHAR * pOut,TPCC_STATE * pTPCC)
{
    INT iInx;
    pTPCC->uFormId = FORM_STOCKLEVEL;
    iInx = FormatFormHdr(pOut,"TPC-C Stock Level",pTPCC);
    wsprintf(pOut + iInx,
        "<PRE>
Stock-Level<BR>"
#ifdef LONG WID
        "Warehouse: %6.6d  District: %2.2d<BR><BR>"
#else
        "Warehouse: %4.4d  District: %2.2d<BR><BR>"
#endif
        "Stock Level Threshold: <INPUT NAME=\"TT*\"SIZE=2><BR><BR>"
        "low stock:  <BR><HR>"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Process\">"
        "<INPUT TYPE=\"submit\" NAME=\"CMD\" VALUE=\"Menu\">"
        "</FORM></BODY></HTML>",
        pTPCC->sWId,pTPCC->sDId);
}; // FormatStockLevel

//=====
//
// Function name: FormatFormHdr
//
//=====
INT FormatFormHdr(CHAR * pOut,CHAR * pTitle,TPCC_STATE * pTPCC)
{
    return(wsprintf(pOut,
        "%s<HTML><HEAD><TITLE>%s</TITLE></HEAD>"
        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"PI*\" VALUE=\"\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"0\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMIN\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCRID\" VALUE=\"%d\">",

```

```

        HTTPHdr,pTitle,pTPCC->uFormId,pTPCC->iTermId,pTPCC->iSyncId
    );
}; // FormatFormHdr

//=====
//
// Function name: FormatRespHdr
//
//=====
INT FormatRespHdr(CHAR * pOut,CHAR * pTitle,TPCC_STATE * pTPCC)
{
    return(wsprintf(pOut,
        "%s<HTML><HEAD><TITLE>%s</TITLE></HEAD>"
        "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMIN\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCRID\" VALUE=\"%d\">",
        HTTPHdr,pTitle,pTPCC->iStatusId,pTPCC->uFormId,
        pTPCC->iTermId,pTPCC->iSyncId
    );
}; // FormatRespHdr

//=====
//
// Function name: FormatString
//
// Encodes formatted string for HTML transmission.
//
//=====
VOID FormatString(CHAR * pOut,CHAR * pPic,CHAR * pIn)
{
    while(*pPic)
    {
        if (*pPic == 'X' )
        {
            if (*pIn)
                *pOut++ = *pIn++;
            else
                *pOut++ = ' ';
        }
        else
            *pOut++ = *pPic;
        pPic++;
    };
    *pOut = 0;
}; // FormatString

//=====
//
// FUNCTION: UtilStrCpy
//
// Copies n characters from string pSrc to pDst and places a null
// null character at the end of the destination string. Unlike
// strncpy this function ensures that the result string is always
// null terminated.
//
//=====
VOID UtilStrCpy(CHAR * pDest,CHAR * pSrc,INT n)
{
    strncpy(pDest,pSrc,n);
    pDest[n] = '\0';

```

```

    return;
}; // UtilStrCpy

//=====
//
// Function name: CheckNumeric
//
// Result
// FALSE - string is all numeric
// TRUE - sting contains non-numeric characters
//
//=====
BOOL CheckNumeric(CHAR * pNum)
{
    if (*pNum == 0 )
        return(TRUE);
    while (*pNum && isdigit(*pNum))
        pNum++;
    return(*pNum);
}; // CheckNumeric

//=====
//
// Function name: WriteEventLog
//
//=====
void WriteEventLog(char * pMsg,bool bError)
{
    WORD wType;
    char szHeader[100];
    char * pDMsgs[2];

    char *pProgId = "Testing";

    HANDLE hEventLog = NULL;
    if (bError)
        wType = EVENTLOG_ERROR_TYPE;
    else
        wType = EVENTLOG_INFORMATION_TYPE;
    hEventLog = RegisterEventSource(NULL,pProgId);
    wsprintf(szHeader,"%s (%ld)\n",pProgId,GetCurrentThreadId());
    pDMsgs[0] = szHeader;
    pDMsgs[1] = pMsg;
    if (hEventLog != NULL)
    {
        ReportEvent(hEventLog, // event log handle
                   wType, // event type
                   0, // category zero
                   0, // no event identifier
                   NULL, // no user security identifier
                   2, // # of substitution strings
                   0, // no binary data
                   (LPCTSTR *) pDMsgs, // address of string array
                   NULL); // address of binary data
        DeregisterEventSource(hEventLog);
    }
    return;
}; // WriteEventLog

```

delivery.h

```

// delivery.h
//
// Copyright Unisys, 1999

#define DEFAULTDQSIZE 2000

bool DeliveryInit(long lSetThreads,long lSetQSize,char * pszPath);
void DeliveryTerm(void);
bool DeliveryPost(DELIVERY_DATA * pdd);

```

delivery.cpp

```

// delivery.cpp
//
// Copyright Unisys, 1999

#include <windows.h>
#include <stdio.h>
#include <time.h>
#include <sys\timeb.h>
#include <process.h>

#include "..\tpccsvr\tpcc.h"
#include "tmon.h"
#include "diagio.h"
#include "delivery.h"

CRITICAL_SECTION csDQRead;
CRITICAL_SECTION csDQWrite;
HANDLE hDQRead;
HANDLE hDQStart;
bool bDQStarted = FALSE;
bool bDQQuit = FALSE;
long lDeliveryThreads;
long lDQSize;
char szPath[200];
long lDeliveryActive = 0;
typedef struct
{
    bool bInUse;
    DELIVERY_DATA ddEntry;
} DELIVERY_QUEUE;
DELIVERY_QUEUE * pdQ;
long lDQNextWrite = 0;
long lDQNextRead = 0;

bool DoDQStart(void);
UINT WINAPI DoDelivery(void * Unused);
void CalculateElapsed(int * pElapsed,LPSYSTEMTIME lpBegin,
                    LPSYSTEMTIME lpEnd);

//=====
//
// Function name: DeliveryInit
//
//=====
bool DeliveryInit(long lSetThreads,long lSetQSize,char * pszPath)

```

```

{
char szDiag[MAX_DIAG_SZ];

lDeliveryThreads = lSetThreads;
lDQSize = lSetQSize;
if (lDQSize <= 0)
    lDQSize = DEFAULTDQSIZE;
strcpy(szPath,pszPath);
InitializeCriticalSection(&csDQRead);
InitializeCriticalSection(&csDQWrite);
hDQRead = CreateEvent(NULL,TRUE,FALSE,NULL);
if (!hDQRead)
{
    wsprintf(szDiag,"DeliveryInit: Create DQRead Event Failure (%ld)\n",
        GetLastError());
    DiagIoWrite(szDiag,DIAG_ERROR);
    return(TRUE);
};
pDQ = (DELIVERY_QUEUE *) calloc(lDQSize,sizeof(DELIVERY_QUEUE));
if (pDQ == NULL)
{
    DiagIoWrite("DeliveryInit: Allocate Delivery Queue
Failure\n",DIAG_ERROR);
    return(TRUE);
};
wsprintf(szDiag,
    "DeliveryInit: Threads = %ld, DQSize(entries) = %ld\n",
    lDeliveryThreads,lDQSize);
DiagIoWrite(szDiag,DIAG_FORCE);
return(FALSE);
}; // DeliveryInit

//=====
//
// Function name: DoDQStart
//
//=====
bool DoDQStart(void)
{
    UINT uThread;
    ULONG hThread;
    DWORD dwRslt;
    char szDiag[MAX_DIAG_SZ];
    void * Unused = NULL;
    int i;

    bDQStarted = TRUE;
    hDQStart = CreateEvent(NULL,TRUE,FALSE,NULL);
    if (!hDQStart)
    {
        wsprintf(szDiag,"DoDQStart: Create Event Failure (%ld)\n",
            GetLastError());
        DiagIoWrite(szDiag,DIAG_ERROR);
        return(TRUE);
    };
    for (i = 0; i < lDeliveryThreads; i++)
    {
        hThread =
            _beginthreadex(NULL,
                0,
                DoDelivery,

```

```

        Unused,
        0,
        &uThread);
    if (hThread == 0)
    {
        wsprintf(szDiag,
            "DoDQStart: Begin Delivery Thread(%d) Failed(%ld)\n",
            i + 1,errno);
        DiagIoWrite(szDiag,DIAG_ERROR);
        return(TRUE);
    };
    dwRslt = WaitForSingleObject(hDQStart,60000);
    if (dwRslt == WAIT_TIMEOUT)
    {
        DiagIoWrite("DoDQStart: Wait Delivery Start Timed
Out\n",DIAG_ERROR);
        return(TRUE);
    };
    if (lDeliveryActive != (i + 1))
    {
        wsprintf(szDiag,
            "DoDQStart: Delivery Thread Initialization Failed(%ld)\n",
            i + 1);
        DiagIoWrite(szDiag,DIAG_ERROR);
        return(TRUE);
    };
    ResetEvent(hDQStart);
    }; // for (lDeliveryThreads)
    CloseHandle(hDQStart);
    return(FALSE);
}; // DoDQStart

//=====
//
// Function name: DeliveryTerm
//
//=====
void DeliveryTerm(void)
{
    int i = 0;
    bDQQuit = TRUE;
    while (i < 12 && lDeliveryActive > 0)
    {
        SetEvent(hDQRead);
        Sleep(5000);
        i++;
    };
    if (lDeliveryActive != 0)
    {
        CHAR szDiag[MAX_DIAG_SZ];
        wsprintf(szDiag,
            "DeliveryTerm: %ld DeliveryThreads still active\n",
            lDeliveryThreads);
        DiagIoWrite(szDiag,DIAG_ERROR);
    };
    free(pDQ);
    CloseHandle(hDQRead);
    DeleteCriticalSection(&csDQWrite);
    DeleteCriticalSection(&csDQRead);
    return;
}; // DeliveryTerm

```

```

//=====
//
// Function name: DeliveryPost
//
//=====
bool DeliveryPost(DELIVERY_DATA * pPost)
{
    DELIVERY_QUEUE * pDQSlot;
    DELIVERY_DATA * pddEntry;
    if (!bdQStarted)
    {
        if (DoDQStart())
        {
            pPost->bTPRslt = TRUE;
            pPost->iTPRslt = SVCERR_DQSTART;
            return(TRUE);
        };
    };
    try
    {
        EnterCriticalSection(&csDQWrite);
        pDQSlot = &pDQ[LDQNextWrite];
        if (pDQSlot->bInUse)
        {
            char szDiag[MAX_DIAG_SZ];
            pPost->bTPRslt = TRUE;
            pPost->iTPRslt = SVCERR_DQFULL;
            wsprintf(szDiag,
                "Delivery Post: Queue Limit (%d) Exceeded\n",
                LDQSize);
            DiagIoWrite(szDiag,DIAG_ERROR);
            return(TRUE);
        };
        pddEntry = &pDQSlot->ddEntry;
        memcpy(pddEntry,pPost,sizeof(DELIVERY_DATA));
        pDQSlot->bInUse = TRUE;
        if (LDQNextWrite == LDQNextRead)
            SetEvent(hDQRead);
        LDQNextWrite++;
        if (LDQNextWrite == LDQSize)
            LDQNextWrite = 0;
    }
    finally
    {
        LeaveCriticalSection(&csDQWrite);
    };
    pPost->bTPRslt = FALSE;
    pPost->iTPRslt = SVC_NOERROR;
    return(FALSE);
}; // DeliveryPost

//=====
//
// Function name: DoDelivery
//
//=====
UINT WINAPI DoDelivery(void * Unused)
{
    FILE *fpLog;
    char szLogTitle[300];

```

```

bool bFlush = FALSE;
DELIVERY_QUEUE * pDQSlot;
DELIVERY_DATA * pddEntry;
DELIVERY_DATA * pdd;
TMON_STATE tsState;
TMON_STATE * pTMon;
HRESULT hr;
int iSize;
long lMyId;
char szTMErrTxt[500];
char szDiag[MAX_DIAG_SZ];
int iElapsed;
int iInx;
long lDQReport = 0;
bool bdQReport = FALSE;

lMyId = InterlockedIncrement(&lDeliveryActive);
pTMon = &tsState;
pTMon->pIAllTxn = NULL;
pTMon->pTxnData = NULL;
pTMon->pszErrTxt = szTMErrTxt;
if (TMinInit(pTMon))
{
    wsprintf(szDiag,"DoDelivery(%ld): TMinInit %s\n",lMyId,szTMErrTxt);
    DiagIoWrite(szDiag,DIAG_ERROR);
    InterlockedDecrement(&lDeliveryActive);
    SetEvent(hDQStart);
    return(1);
};
wsprintf(szLogTitle,"%sdelilog%ld",szPath,lMyId);
fpLog = fopen(szLogTitle,"ab");
if (!fpLog)
{
    wsprintf(szDiag,
        "DoDelivery(%ld): LogFile %s Open Failed (%ld)\n",
        lMyId,szLogTitle,GetLastError());
    DiagIoWrite(szDiag,DIAG_ERROR);
    InterlockedDecrement(&lDeliveryActive);
    SetEvent(hDQStart);
    return(1);
};
wsprintf(szDiag,"DoDelivery(%ld): Initialized\n",lMyId);
DiagIoWrite(szDiag,DIAG_FORCE);
SetEvent(hDQStart);

while (!bdQQuit)
{
    EnterCriticalSection(&csDQRead);
    WaitForSingleObject(hDQRead,INFINITE);
    if (bdQQuit)
    {
        LeaveCriticalSection(&csDQRead);
        break;
    };
    pDQSlot = &pDQ[LDQNextRead];
    if (!pDQSlot->bInUse)
    {
        wsprintf(szDiag,
            "DoDelivery(%ld): QSlot for Read Not InUse (%ld)\n",
            lMyId);

```

```

    DiagIoWrite(szDiag,DIAG_ERROR);
    LeaveCriticalSection(&csDQRead);
    break;
};
pddEntry = &pDQSlot->ddEntry;
pdd = (DELIVERY_DATA *) pTMon->pTxnData;
memcpy(pdd,pddEntry,sizeof(DELIVERY_DATA));
EnterCriticalSection(&csDQWrite);
pDQSlot->bInUse = FALSE;
LDQNextRead++;
if (LDQNextRead == LDQSize)
{
    LDQNextRead = 0;
    bdQReport = TRUE;
    LDQReport = LDQNextWrite;
};
if (LDQNextRead == LDQNextWrite)
    ResetEvent(hDQRead);
LeaveCriticalSection(&csDQWrite);
LeaveCriticalSection(&csDQRead);
// Process delivery transaction
iSize = pTMon->iSize;
hr = pTMon->pIAllTxn->Delivery(&iSize,(unsigned char**) &pTMon-
>pTxnData);
if (FAILED(hr))
{
    wsprintf(szDiag,
        "DoDelivery(%ld): COM Interface Call Failed HRESULT %x\n",
        lMyId,hr);
    DiagIoWrite(szDiag,DIAG_ERROR);
    break;
};
pdd = (DELIVERY_DATA *) pTMon->pTxnData;
GetLocalTime(&pdd->EndTime);
iElapsed = 9999999;
if (!pdd->bTPRslt)
    CalculateElapsed(&iElapsed,&pdd->QTime,&pdd->EndTime);
iInx = wsprintf(szDiag,
"%4.4d/%2.2d/%2.2d,%2.2d:%2.2d:%2.2d:%3.3d,%2.2d:%2.2d:%2.2d:%3.3d,"
"%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d\r\n",
pdd->EndTime.wYear,pdd->EndTime.wMonth,pdd->EndTime.wDay,
pdd->QTime.wHour,pdd->QTime.wMinute,
pdd->QTime.wSecond,pdd->QTime.wMilliseconds,
pdd->EndTime.wHour,pdd->EndTime.wMinute,
pdd->EndTime.wSecond,pdd->EndTime.wMilliseconds,
iElapsed,pdd->w_id,pdd->o_carrier_id,
pdd->o_id[0],pdd->o_id[1],pdd->o_id[2],pdd->o_id[3],pdd->o_id[4],
pdd->o_id[5],pdd->o_id[6],pdd->o_id[7],pdd->o_id[8],pdd->o_id[9]
);
fwrite(szDiag,iInx,1,fpLog);
if (bdQReport)
{
    wsprintf(szDiag,"DoDelivery(%ld): DQDepth
%ld\n",lMyId,LDQReport);
    DiagIoWrite(szDiag,DIAG_FORCE);
    bdQReport = FALSE;
};
}; // while !bdQQuit
if (fpLog)

```

```

    fclose(fpLog);
    TMDone(pTMon);
    InterlockedDecrement(&lDeliveryActive);
    wsprintf(szDiag,"DoDelivery(%ld): Shutdown\n",lMyId);
    DiagIoWrite(szDiag,DIAG_FORCE);
    return(0);
}; // DoDelivery

//=====
//
// Function name: CalculateElapsed (milliseconds)
//
//=====
void CalculateElapsed(int * pElapsed,LPSYSTEMTIME lpBegin,
LPSYSTEMTIME lpEnd)
{
    int tmBegin;
    int tmEnd;
    tmBegin = (lpBegin->wHour * 3600000) + (lpBegin->wMinute * 60000) +
        (lpBegin->wSecond * 1000) + lpBegin->wMilliseconds;
    tmEnd = (lpEnd->wHour * 3600000) + (lpEnd->wMinute * 60000) +
        (lpEnd->wSecond * 1000) + lpEnd->wMilliseconds;
    *pElapsed = tmEnd - tmBegin;
    // Check for day boundry, this will function for 24 hour period but
    // will fail over a 48 hours period.
    if (*pElapsed < 0)
        *pElapsed = *pElapsed + (24 * 60 * 60 * 1000);
    return;
}; // CalculateElapsed

term.h

// term.h
//
// Copyright Unisys, 1999

#include <sys\timeb.h>

#define TMILLI_TIMEOUT 3600000 // One hour

typedef struct
{
    BOOL bInUse; // In use flag
    INT iTermId; // TermId
    LPVOID ConnID; // Connection Id
    INT iSyncId; // Sync Id
#ifdef LONG_WID
    LONG sWId; // TPCC WareHouse Id
#else
    SHORT sWId;
#endif
    SHORT sDIId; // TPCC District Id
    struct_timeb tbLastAccess; // Last activity timestamp
} TERM_STATE;

BOOL TermInit(INT iSetMaxTerm);
VOID TermTerm(VOID);
TERM_STATE * TermAlloc(VOID);
TERM_STATE * TermGet(INT iTermId);

```



```
BOOL TermFree(INT iTermId);
```

term.cpp

```
// term.cpp
//
// Copyright Unisys, 1999
//
#include <windows.h>
#include <stdio.h>
#include "diagio.h"
#include "timesupp.h"
#include "term.h"

TERM_STATE * pTArray;
INT iNextTerm = 0;
INT iMaxTerm = 0;
CRITICAL_SECTION csTerm;

VOID TermMaint (VOID);

//=====
//
// Function name: TermInit
// Creates and initializes the first TERMINITIAL TArray entries.
// Initializes critical section to control access to TArray. Assumes
// access to function is single threaded, no other threads will start
// until this function completes and that function is called once
// (DLL_PROCESS_ATTACH) .
//
// Returns:
// FALSE TArray allocated and initialized
// TRUE TArray allocation failure
//=====
BOOL TermInit (INT iSetMaxTerm)
{
    INT iTermId;
    CHAR szDiag[MAX_DIAG_SZ];
    if (pTArray != NULL)
    {
        wsprintf(szDiag, "TermInit(%ld): TArray Already Initialized\n",
            GetCurrentThreadId());
        DiagIoWrite(szDiag, DIAG_ERROR);
        return(TRUE);
    };
    InitializeCriticalSection(&csTerm);
    iMaxTerm = iSetMaxTerm;
    pTArray = (TERM_STATE *) malloc(sizeof(TERM_STATE) * (iMaxTerm + 1));
    if (pTArray == NULL)
    {
        wsprintf(szDiag, "TermInit(%ld): malloc failed (%ld)\n",
            GetCurrentThreadId(), GetLastError());
        DiagIoWrite(szDiag, DIAG_ERROR);
        return(TRUE);
    }
    for (iTermId = 1; iTermId <= iMaxTerm; iTermId++)
        TermFree(iTermId);
    iNextTerm = 1;
    return(FALSE);
};
```

```
}; // TermInit
//=====
//
// Function name: TermTerm
// Frees TArray and deletes csTerm critical section. Assumes access
// to function is single threaded and no other threads are actively
// accessing TArray entries (DLL_PROCESS_DETACH) .
//=====
VOID TermTerm(VOID)
{
    DeleteCriticalSection(&csTerm);
    if (pTArray != NULL)
        free(pTArray);
    iNextTerm = 0;
    iMaxTerm = 0;
}; // TermTerm
//=====
//
// Function name: TermAlloc
// Allocates empty TArray. Uses iNextTerm to start search.
//
// Returns:
// > 0 TArray entry index (iTermId)
// < 0 Empty TArray entry not available
//=====
TERM_STATE * TermAlloc(VOID)
{
    INT iTermId = -1;
    if (pTArray == NULL)
    {
        CHAR szDiag[MAX_DIAG_SZ];
        wsprintf(szDiag, "TermAlloc(%ld): Term Array Not Allocated\n",
            GetCurrentThreadId());
        DiagIoWrite(szDiag, DIAG_ERROR);
        return(NULL);
    };
    EnterCriticalSection(&csTerm);
    _try
    {
        while(iNextTerm <= iMaxTerm)
        {
            if (!pTArray[iNextTerm].bInUse)
            {
                pTArray[iNextTerm].bInUse = TRUE;
                _ftime(&pTArray[iNextTerm].tbLastAccess);
                iTermId = iNextTerm;
                iNextTerm++;
                break;
            };
            iNextTerm++;
        }; // while(iNextTerm <= iMaxTerm) (1st Try)
        if (iTermId <= 0)
        {
            // No entry found. Perform maint and try again
            TermMaint();
            iNextTerm = 1;
            while(iNextTerm <= iMaxTerm)
```

```

    {
        if (!pTArray[iNextTerm].bInUse)
        {
            pTArray[iNextTerm].bInUse = TRUE;
            _ftime(&pTArray[iNextTerm].tbLastAccess);
            iTermId = iNextTerm;
            iNextTerm++;
            break;
        };
        iNextTerm++;
    }; // while(iNextTerm <= iMaxTerm) (2nd Try)
}; // if (iTermId <= 0)
if (iTermId <= 0)
    iNextTerm = 1;
}
finally
{
    LeaveCriticalSection(&csTerm);
};

if (iTermId > 0)
    return(&pTArray[iTermId]);
else
    return(NULL);

}; // TermAlloc

//=====
//
// Function name: TermMaint
// Clears entries whose last access time exceeds TMILLI_TIMEOUT.
// Assumes caller has entered csTerm.
//
//=====
VOID TermMaint (VOID)
{
    INT iTermId;
    TMILLI tmElapsed;
    // Free entries that have timed out
    for (iTermId = 1; iTermId <= iMaxTerm; iTermId++)
    {
        if (pTArray[iTermId].bInUse)
        {
            tmElapsed = TimebElapsed(&pTArray[iTermId].tbLastAccess);
            if (tmElapsed > TMILLI_TIMEOUT)
                TermFree(iTermId);
        };
    };
}; // TermMaint

//=====
//
// Function name: TermGet
// Returns pointer to TArray slot at iTermId.
//
// Returns:
// FALSE TArray entry made available
// TRUE iTermId invalid.
//
//=====

```

```

TERM_STATE * TermGet (INT iTermId)
{
    TERM_STATE * pTerm;
    TMILLI tmElapsed;
    if (iTermId <= 0 || iTermId > iMaxTerm)
    {
        CHAR szDiag[MAX_DIAG_SZ];
        wsprintf(szDiag, "TermGet (%ld): Invalid TermId (%ld)\n",
            GetCurrentThreadId(), iTermId);
        DiagIoWrite(szDiag, DIAG_ERROR);
        return (NULL);
    };
    pTerm = &pTArray[iTermId];
    if (!pTerm->bInUse)
        return (NULL);
    tmElapsed = TimebElapsed(&pTerm->tbLastAccess);
    if (tmElapsed > TMILLI_TIMEOUT)
        return (NULL); // Entry destined to be freed by maint
    _ftime(&pTArray[iTermId].tbLastAccess);
    return (&pTArray[iTermId]);
}; // TermGet

//=====
//
// Function name: TermFree
// Initializes contents of TArray slot at iTermId.
//
// Returns:
// FALSE TArray entry made available
// TRUE iTermId invalid.
//
//=====
BOOL TermFree (INT iTermId)
{
    TERM_STATE * pTerm;
    if (iTermId <= 0 || iTermId > iMaxTerm)
    {
        CHAR szDiag[MAX_DIAG_SZ];
        wsprintf(szDiag, "TermFree (%ld): Invalid TermId (%ld)\n",
            GetCurrentThreadId(), iTermId);
        DiagIoWrite(szDiag, DIAG_ERROR);
        return (TRUE);
    };
    pTerm = &pTArray[iTermId];
    pTerm->ConnID = 0;
    pTerm->sWid = 0;
    pTerm->sDId = 0;
    pTerm->iSyncId = 0;
    pTerm->iTermId = iTermId;
    TimebClear(&pTerm->tbLastAccess);
    pTerm->bInUse = FALSE;
    return (FALSE);
}; // TermFree

tmon.h

// tmon.h
//
// Copyright Unisys, 1999

```

```
#include "..\tpccproxy\tpccproxy.h"

typedef struct
{
    CHAR * pszErrTxt;           // Error text
    INT iSize;
    ITPCC * pIAllTxn;
    CHAR * pTxnData;           // TM buffer area
} TMON_STATE;

VOID TMonInit(INT iSetMaxMsg);
VOID TMonTerm(VOID);
BOOL TMinic(TMON_STATE * pTMon);
VOID TMDone(TMON_STATE * pTMon);
```

tmon.cpp

```
// tmon.cpp
//
// Copyright Unisys, 1999
//
// needed for CoinitializeEx
#define _WIN32_WINNT 0x0400

#include <windows.h>
#include <stdio.h>

#include "..\tpccproxy\tpccproxy_i.c"
#include "..\tpccsvr\tpccsvr_i.c"

#include "tmon.h"

INT iTMMaxSz;

//=====
//
// Function name: TMonInit
//
//=====
VOID TMonInit(INT iSetMaxMsg)
{
    iTMMaxSz = iSetMaxMsg;
}; // TMonInit

//=====
//
// Function name: TMonTerm
//
//=====
VOID TMonTerm(VOID)
{
}; // TMonTerm

//=====
//
// Function name: TMinic
//
```

```
//
// Result:
// FALSE Initialization completed successfully
// TRUE Initialization failed
//
//=====
BOOL TMinic(TMON_STATE * pTMon)
{
    HRESULT hr = NULL;
    long lRet = 0;

    pTMon->pIAllTxn = NULL;
    pTMon->pTxnData = NULL;
    pTMon->iSize = 0;
    // Must have ErrTxt message area set before init
    if (pTMon->pszErrTxt == NULL)
        return(TRUE);

    hr = CoInitializeEx(NULL, COINIT_MULTITHREADED);
    if (FAILED(hr))
    {
        wsprintf(pTMon->pszErrTxt, "COM Initialize Failed, HRESULT %x\n", hr);
        return(TRUE);
    };

    hr = CoCreateInstance(CLSID_TPCC, NULL, CLSCTX_SERVER, IID_ITPCC,
        (void **)&pTMon->pIAllTxn);
    if (FAILED(hr))
    {
        wsprintf(pTMon->pszErrTxt, "COM Create Instance Failed, HRESULT
        %x\n", hr);
        return(TRUE);
    };
    hr = (pTMon->pIAllTxn->CallSetComplete());
    if (FAILED(hr))
    {
        wsprintf(pTMon->pszErrTxt, "COM Call SetComplete Failed, HRESULT
        %x\n", hr);
        return(TRUE);
    };
    pTMon->pTxnData = (char *) CoTaskMemAlloc(iTMMaxSz);
    if (!pTMon->pTxnData)
    {
        wsprintf(pTMon->pszErrTxt, "COM Allocate TxnData Failed\n");
        return(TRUE);
    };
    pTMon->iSize = iTMMaxSz;
    return(FALSE);
}; // TMinic

//=====
//
// Function name: TMDone
//
//=====
VOID TMDone(TMON_STATE * pTMon)
{
    CoTaskMemFree(pTMon->pTxnData);
    pTMon->pIAllTxn->Release();
    pTMon->pIAllTxn = NULL;
    CoUninitialize();
};
```

```
}; // TMDone
```

timesupp.c

```
// timesupp.c
//
// Copyright Unisys, 1997 1998 1999
//

#include <stdio.h>
#include "timesupp.h"

// These global variables are used for implementing hi resolution time
stamps
// based on the QueryPerformanceCounter() API.
// These variables should be initialized at startup by a single call to
// InitHiresTime().
struct _timeb tbInitialTimeb;
LARGE_INTEGER liInitialTickCount;
LARGE_INTEGER liTickFreq;
DOUBLE dTickSecs; // period of ticks in seconds
DOUBLE dTickMillisecs; // period of ticks in milliseconds
BOOL bHRT = FALSE; // true => using HRT

//=====
//
// Function name: InitHiresTime
//
//=====
BOOL InitHiresTime(BOOL bOn)
{
    bHRT = bOn;
    if (bOn == FALSE)
        return(TRUE);

    //printf("InitHiresTime: Setup hi res timing using
    QueryPerformanceFrequency() / QueryPerformanceCounter()\n");

    // Get performance counter tick frequency
    if(!QueryPerformanceFrequency(&liTickFreq))
    {
        //printf("InitHiresTime: QueryPerformanceFrequency
        indicates no hi res timer supported\n");
        return(FALSE);
    }

    // Set tick period info
    dTickSecs = 1.0 / (DOUBLE)liTickFreq.QuadPart;
    dTickMillisecs = 1000.0 / (DOUBLE)liTickFreq.QuadPart;

    // Establish initial time
    _ftime(&tbInitialTimeb);

    // Establish initial tick count associated with this initial time
    if(!QueryPerformanceCounter(&liInitialTickCount))
    {
        //printf("InitHiresTime: QueryPerformanceCounter call to
        set initial tick count failed\n");
    }
}
```

```
        return(FALSE);
    }

    /*
    // Printout some info
    printf("InitHiresTime: tick frequency           : %I64d\n"
           "InitHiresTime: tick period (secs)       :
    %18.16f\n"
           "InitHiresTime: tick period (milliseconds) :
    %15.12f\n",
           liTickFreq.QuadPart, dTickSecs, dTickMillisecs);

    printf("InitHiresTime: Initial _ftime           : %d secs %d
    millisecs\n",
           tbInitialTimeb.time,
           tbInitialTimeb.millitm);

    printf("InitHiresTime: Initial tick count       :
    %I64d\n",liInitialTickCount.QuadPart);
    */
    return(TRUE);
} //InitHiresTime

//=====
//
// Function name: TimebCopy
// Structure contents copy of _timeb source to _timeb dest.
//
//=====
VOID TimebCopy(struct _timeb * p_tbDest, struct _timeb * p_tbSource)
{
    p_tbDest->time = p_tbSource->time;
    p_tbDest->millitm = p_tbSource->millitm;
    p_tbDest->dstflag = p_tbSource->dstflag;
    p_tbDest->timezone = p_tbSource->timezone;
}; // TimebCopy

//=====
//
// Function name: TimebDiff
// Time difference in milliseconds between _timeb_t1 and _timeb_t2.
//
//=====
TMILLI TimebDiff(struct _timeb * p_tb1, struct _timeb * p_tb2)
{
    LONG lRslt;
    lRslt = ((p_tb2->time - p_tb1->time) * 1000) +
            (p_tb2->millitm - p_tb1->millitm);
    if (lRslt < 0)
        return(0);
    else
        return((TMILLI) lRslt);
}; // TimebDiff

//=====
//
// Function name: TimebElapsedd
//
```

```

//=====
TMILLI TimebElapsed(struct _timeb * p_tb1)
{
    struct _timeb_tb2;
    TimebStamp(&_tb2);

    return (TimebDiff(p_tb1,&_tb2));
}; // TimebElapsed

//=====
//
// Function name: TimebClear
//
//=====
VOID TimebClear(struct _timeb * p_tb1)
{
    p_tb1->time = 0;
    p_tb1->millitm = 0;
}; // TimebClear

//=====
//
// Function name: TimebToString
// Converts timeb to yyyy:mm:dd,hh:mm:ss.sss format
//
//=====
CHAR * TimebToString(struct _timeb * p_tb1,CHAR * psz,BOOL bMillis)
{
    struct tm * ptm;
    INT iInx;
    ptm = localtime(&p_tb1->time);
    iInx = wsprintf(psz,"%4.4d/%2.2d/%2.2d,%2.2d:%2.2d:%2.2d",
        ptm->tm_year + 1900,ptm->tm_mon + 1,ptm->tm_mday,
        ptm->tm_hour,ptm->tm_min,ptm->tm_sec);
    if (bMillis)
        wsprintf(psz + iInx,"%3.3d",p_tb1->millitm);
    return(psz);
}; // TimebToString

//=====
//
// Function name: TimebFromString
// Converts yyyy:mm:dd,hh:mm:ss.sss (TimebToString) format to timeb
//
//=====
BOOL TimebFromString(struct _timeb * p_tb1,CHAR * psz)
{
    struct tm tmTime;
    struct tm * ptm;
    UINT uLen;

    ptm = &tmTime;
    uLen = strlen(psz);
    if (uLen < (TIMEB_STRING_SZ - 4)) // millis are optional
    {
        p_tb1->time = 0;
        p_tb1->millitm = 0;
        return (TRUE);
    }
};

```

```

// Clear fields that won't be set
ptm->tm_wday = 0;
ptm->tm_yday = 0;
ptm->tm_isdst = -1;
// Set tm struct fields from string
ptm->tm_year = (atoi(psz)) - 1900;
psz += 5;
ptm->tm_mon = (atoi(psz)) - 1;
psz += 3;
ptm->tm_mday = atoi(psz);
psz += 3;
ptm->tm_hour = atoi(psz);
psz += 3;
ptm->tm_min = atoi(psz);
psz += 3;
ptm->tm_sec = atoi(psz);
if (uLen >= TIMEB_STRING_SZ) // Millis present
{
    psz += 3;
    p_tb1->millitm = atoi(psz);
}
else
    p_tb1->millitm = 0;
p_tb1->time = mktime(ptm);
return(FALSE);
}; // TimebFromString

//=====
//
// Function name: TimebAddSecs
//
//=====
VOID TimebAddSecs(struct _timeb * p_tb1,INT iSeconds)
{
    p_tb1->time += iSeconds;
}; // TimebAddSecs

//=====
//
// Function name: TimebAddMilliseconds
//
//=====
VOID TimebAddMilliseconds(struct _timeb * p_tb, TMILLI tmMilliseconds)
{
    time_t ttSecs;
    unsigned short utm;

    ttSecs = tmMilliseconds / 1000;
    if(ttSecs)
    {
        utm = p_tb->millitm += (unsigned short) tmMilliseconds -
(ttSecs * 1000);
    }
    else
    {
        utm = p_tb->millitm += (unsigned short) tmMilliseconds;
    }

    if(utm > 999)
    {
        p_tb->millitm -= 1000;
    }
}

```

```

        ttSecs++;
    }

    p_tb->time += ttSecs;

}; //TimebAddMillisecs

//=====
//
// Function name: TimebSeed
//
//=====
ULONG TimebSeed(VOID)
{
    ULONG ulSeed;
    struct _timeb tb_1;
    _ftime(&tb_1);
    ulSeed = ((tb_1.time % TIMEBSEED_MOD) * TIMEBSEED_SHIFT) +
    tb_1.millitm;
    return(ulSeed);
}; // TimebSeed

//=====
//
// Function name: TimebStamp
//
//          This functions generates a struct _timeb timestamp and
returns it
//          in *p_tb. It does this as follows:
//
//          1. Using the QueryPerformanceCounter(), calculates clock
ticks
//          elapsed from liInitTickCount.
//
//          2. Converts this to a DOUBLE elapsed millisecs.
//
//          3. Rounds this to a TMILLI (ULONG) elapsed millisecs.
//
//          4. Gets a copy of tbInitialTimeb.
//
//          5. Add elapsed millisecs to this tbInitialTimeb and writes
this
//          _timeb into *p_tb.
//=====
BOOL TimebStamp(struct _timeb * p_tb)
{
    LARGE_INTEGER liTickCount;
    TMILLI tmMillisecs;
    DOUBLE d1,d2;

    if (bHRT == FALSE)
    {
        _ftime(p_tb);
        return (TRUE);
    }

    if( !QueryPerformanceCounter(&liTickCount) )
    return(FALSE);

    d1 = (DOUBLE)(liTickCount.QuadPart -liInitialTickCount.QuadPart);
    d2 = dTickMillisecs * d1;

```

```

    d1 = d2 + 0.5;

    tmMillisecs = (TMILLI) d1;

    TimebCopy(p_tb, &tbInitialTimeb);
    TimebAddMillisecs(p_tb, tmMillisecs);

    return(TRUE);
} //TimebStamp

```

timesupp.h

```

// timesupp.h

#include <windows.h>
#include <time.h>
#include <sys\timeb.h>

#define TIMEBSEED_MOD 10000
#define TIMEBSEED_SHIFT 1000
#define TIMEB_STRING_SZ 23
#define TIMEB_STRING_DATESZ 10
#define TIMEB_STRING_TIMEOFFSET 11
#define TIMEB_STRING_TIMESZ 12

typedef ULONG TMILLI;
typedef ULONG TMICRO;

TMILLI TimebDiff(struct _timeb * p_tb1, struct _timeb * p_tb2);
VOID TimebCopy(struct _timeb * p_tbDest, struct _timeb * p_tbSource);
TMILLI TimebElapsed(struct _timeb * p_tb1);
VOID TimebClear(struct _timeb * p_tb1);
CHAR * TimebToString(struct _timeb * p_tb1, CHAR * psz, BOOL bMillis);
BOOL TimebFromString(struct _timeb * p_tb1, CHAR * psz);
VOID TimebAddSecs(struct _timeb * p_tb1, INT iSeconds);
ULONG TimebSeed(VOID);

BOOL InitHiresTime(BOOL bOn);
VOID TimebAddMillisecs(struct _timeb * p_tb, TMILLI tmMillisecs);
BOOL TimebStamp(struct _timeb * p_tb);

```

diagio.h

```

// diagio.h
//
// Copyright Unisys, 1999

// Environment variable defaults
#define DEFAULTDIAGLEVEL DIAG_INFO
#define DEFAULTTEVENTLOG 0

#define DIAGNOSTICS TRUE
#define MAX_DIAG_SZ 2000

// Severity level of diagnostic report
#define DIAG_FORCE 1
#define DIAG_ERROR 2

```

```

#define DIAG_STATE 3
#define DIAG_INFO 4

VOID DiagIoInit(CHAR * pDiagId,BOOL bConsole,BOOL bEvent,UINT uLevel);
VOID DiagIoTerm(VOID);
VOID DiagIoWrite(CHAR * pDiagBuffer, UINT uSeverity);

```

diagio.cpp

```

// diagio.cpp
//
// Copyright Unisys, 1999
//
#include <windows.h>
#include <stdio.h>
#include "diagio.h"

CRITICAL_SECTION csDiagIo;
HANDLE hEventLog = NULL;
UINT uDiagLevel;
BOOL bEventLog;
BOOL bConsoleLog;
CHAR * pDiagHdr;
CHAR * pEventHost;
CHAR * pErrHdr =
    {"*** ERROR *** ERROR *** ERROR *** ERROR *** ERROR ***"};

INT WriteEventLog(CHAR * pDMsgs[],UINT uMsgCnt,UINT uSeverity);

//=====
//
// Function name: DiagIoInit
//
//=====
VOID DiagIoInit(CHAR * pDiagId,BOOL bConsole,BOOL bEvent,UINT uLevel)
{
    if (DIAGNOSTICS)
    {
        InitializeCriticalSection(&csDiagIo);

        uDiagLevel = uLevel;
        bEventLog = bEvent;
        bConsoleLog = bConsole;
        pEventHost = (CHAR *) malloc(10);
        strcpy(pEventHost,""); // local host
        pDiagHdr = (CHAR *) malloc(strlen(pDiagId) + 1);
        strcpy(pDiagHdr,pDiagId);
        if (bEventLog)
        {
            hEventLog = RegisterEventSource(pEventHost,pDiagId);
            if (hEventLog == NULL)
            {
                bEventLog = FALSE;
                if (bConsoleLog)
                    fprintf(stdout,
                        "%s: Event Log Register Failed (%ld)\n",
                        "Event Log Will NOT be Used\n",
                        pDiagHdr,GetLastError());
            }
        }
    }
}

```

```

else
{
    if (bConsoleLog)
        fprintf(stdout,"%s: Event Logging to LocalHost as %s\n",
            pDiagHdr,pDiagHdr);
};
}; // if bEventLog
}; // if Diagnostics
}; // DiagIoInit

//=====
//
// Function name: DiagIoTerm
//
//=====
VOID DiagIoTerm(VOID)
{
    if (DIAGNOSTICS)
    {
        DeleteCriticalSection(&csDiagIo);
        if (hEventLog != NULL)
            DeregisterEventSource(hEventLog);
        free(pDiagHdr);
        free(pEventHost);
    }
}; // DiagIoTerm

//=====
//
// Function name: DiagIoWrite
//
//=====
VOID DiagIoWrite(CHAR * pDiagBuffer, UINT uSeverity)
{
    CHAR * pDMsgs[3];
    UINT uMsgCnt = 0;
    INT iERslt = 0;
    if (DIAGNOSTICS)
    {
        if (uDiagLevel >= uSeverity)
        {
            EnterCriticalSection(&csDiagIo);
            try
            {
                if (uSeverity == DIAG_ERROR)
                {
                    pDMsgs[0] = pDiagHdr;
                    pDMsgs[1] = pErrHdr;
                    pDMsgs[2] = pDiagBuffer;
                    uMsgCnt = 3;
                }
                else
                {
                    pDMsgs[0] = pDiagHdr;
                    pDMsgs[1] = pDiagBuffer;
                    uMsgCnt = 2;
                }
            };
            if (bEventLog)
                iERslt = WriteEventLog(pDMsgs,uMsgCnt,uSeverity);
            if (bConsoleLog)

```

```

    {
        if (uMsgCnt == 3)
            fprintf(stdout, "\n%s:
%s\n%s", pDMsgs[0], pDMsgs[1], pDMsgs[2]);
        else
            fprintf(stdout, "\n%s: %s", pDMsgs[0], pDMsgs[1]);
        if (iERslt != 0)
            fprintf(stdout,
                "EventLog Write Failed (%ld), No Longer in Use\n",
                iERslt);
    };
}
finally
{
    LeaveCriticalSection(&csDiagIo);
};
}; // if uDiagLevel >= uSeverity
}; // if Diagnostics
}; // DiagIoWrite

INT WriteEventLog(CHAR * pDMsgs[], UINT uMsgCnt, UINT uSeverity)
{
    WORD wType;
    WORD wCount;
    wCount = uMsgCnt;
    switch (uSeverity)
    {
        case DIAG_ERROR:
            wType = EVENTLOG_ERROR_TYPE;
            break;
        default:
            wType = EVENTLOG_INFORMATION_TYPE;
            break;
    };
    if (wType != 0)
    {
        if (!ReportEvent(hEventLog, // event log handle
            wType, // event type
            0, // category zero
            uSeverity, // no event identifier
            NULL, // no user security identifier
            wCount, // # of substitution strings
            0, // no binary data
            (LPCTSTR *) pDMsgs, // address of string array
            NULL)) // address of binary
        {
            DeregisterEventSource(hEventLog);
            hEventLog = NULL;
            bEventLog = FALSE;
            return(GetLastError());
        }; // ReportEvent failed
    }; // if wType != 0
    return(0);
}; // WriteEventLog

```

tpccproxy.def

```
LIBRARY "tpcc_com_ps"
```

```
DESCRIPTION 'Proxy/Stub DLL'

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

```

tpccproxy.idl

```

// tpccproxy.idl
//
// Copyright Unisys, 1999
// Copyright Microsoft, 1999

// Forward declare all types defined
// Interface ITPCC;
import "oaidl.idl";
import "ocidl.idl";

[
    object,
    uuid(FEEE6AA2-84B1-11d2-BA47-00C04FBFE08B),
    helpstring("ITPCC Interface"),
    pointer_default(unique)
]
interface ITPCC : IUnknown
{
    HRESULT STDMETHODCALLTYPE NewOrder
    (
        [in, out] int * iSize,
        [in, out, size_is(*iSize)] char ** pTData
    );
    HRESULT STDMETHODCALLTYPE Payment
    (
        [in, out] int * iSize,
        [in, out, size_is(*iSize)] char ** pTData
    );
    HRESULT STDMETHODCALLTYPE Delivery
    (
        [in] int * iSize,
        [in, out, size_is(*iSize)] char ** pTData
    );
    HRESULT STDMETHODCALLTYPE StockLevel
    (
        [in, out] int* iSize,
        [in, out, size_is(*iSize)] char ** pTData
    );
    HRESULT STDMETHODCALLTYPE OrderStatus
    (
        [in, out] int* iSize,
        [in, out, size_is(*iSize)] char ** pTData
    );
};

```



```

        HRESULT __stdcall CallSetComplete
        (
        );
}; // interface ITPCC

```

tpccsvr.def

; tpccsvr.def : Declares the module parameters.

```

LIBRARY      "tpcc_com_all.dll"

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

```

tpccsvr.idl

```

// tpccsvr.idl
//
// Copyright Unisys, 1999
// Copyright Microsoft, 1999

interface TPCC;

import "oaidl.idl";
import "ocidl.idl";
import "..\tpccproxy\tpccproxy.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;
    };
};

```

tpccsvr.h

```

// tpccsvr.h
//
// Copyright Unisys, 1999

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(int * iSize,UCHAR ** pTData);
    HRESULT __stdcall Payment(int * iSize,UCHAR ** pTData);
    HRESULT __stdcall Delivery(int * iSize,UCHAR ** pTData);
    HRESULT __stdcall StockLevel( int* iSize, UCHAR ** pTData);
    HRESULT __stdcall OrderStatus(int* iSize, UCHAR ** pTData);
    HRESULT __stdcall CallSetComplete();

// IObjectControl
    STDMETHODIMP_(BOOL) CanBePooled() {return m_bCanBePooled;}
    STDMETHODIMP Activate() {return S_OK;} // no transactions enlistment
    STDMETHODIMP_(void) Deactivate() { }

// IObjectConstruct
    STDMETHODIMP Construct(IDispatch * pUnk);

// state
private:
    bool m_bCanBePooled;
    long m_lRefId;
    int m_iMaxRetry;
    int m_iTryCount;
    bool m_bTPRslt;
    int m_iTPRslt;
    union
    {
        NEW_ORDER_DATA NOData;
        PAYMENT_DATA PYData;
        DELIVERY_DATA DLData;
        ORDER_STATUS_DATA OSDData;
        STOCK_LEVEL_DATA SLData;
    } m_TData;
    SQLHDBC m_hdbc;
    SQLHSTMT m_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;
    SQLUIINTEGER m_BindOffset;
    SQLUIINTEGER m_RowsFetched;
    int m_no_commit_flag;

    bool InitNOParams(void);
    bool InitPYParams(void);
    bool InitDLParams(void);
    bool InitOSParams(void);
    bool InitSLParams(void);
    bool CheckDBError(char * pSource);
}; // Class CTPCC_Common

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()
}; // Class CTPCC

```

tpccsvr.cpp

```

// tpccsvr.cpp
//
// Copyright Unisys, 1999
// Copyright Microsoft, 1999

#define STRICT
#define _WIN32_WINNT 0x0400
#define _ATL_APARTMENT_THREADED

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

#include <atlcom.h>
#include <initguid.h>
#include <transact.h>
#include <atlimpl.cpp>
#include <comsvcs.h>
#include <time.h>
#include <sys\timeb.h>

```

```

#define DBNTWIN32
#include <sqltypes.h>
#include <sql.h>
#include <sqlext.h>

#ifdef USE_SNAC
#include <sqlncli.h>
#else
#include <odbcss.h>
#endif

#include "..\tpccproxy\tpccproxy.h"
#include "..\tpccsvr\tpcc.h"

#include "resource.h"
#include "..\tpccsvr\tpccsvr_i.h"
#include "..\tpccsvr\tpccsvr_i.c"
#include "tpccsvr.h"
#include "..\tpccproxy\tpccproxy_i.c"

CComModule _Module;

BEGIN_OBJECT_MAP(ObjectMap)
    OBJECT_ENTRY(CLSID_TPCC, CTPCC)
END_OBJECT_MAP()

FILE *fp;
char pProgId[100];
char * pPName = "TPCC Server";
int iInstance = 1;
char szServer[100] = "hostname";
char szMyHost[MAX_COMPUTERNAME_LENGTH + 1];
char szUser[100] = "sa";
char szPassword[100] = "";
char szDatabase[100] = "tpcc";
int iDeadlockRetry = 5;

static SQLHENV henv = SQL_NULL_HENV; // ODBC environment handle
long lCount = 0;
long lActive = 0;

bool ReadRegistry(VOID);
void WriteEventLog(char * pMsg, bool bError);
CHAR * TimeStamp(char *timeStr);

int iSPNumber = 0;
wchar_t wszSPNumber[100];

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

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInst, ULONG ul_reason_for_call, LPVOID
lpReserved)
{
    char szDiag[300];
    DWORD dwCNSize = MAX_COMPUTERNAME_LENGTH;
    try
    {
        switch(ul_reason_for_call)

```

```

{
    case DLL_PROCESS_ATTACH:
        if (fp == NULL)
            fp = fopen("c:\\temp\\tpccsvr.txt", "w");

        _Module.Init(ObjectMap,hInst);
        DisableThreadLibraryCalls(hInst);
        wsprintf(pProgId,"%s%d",pPName,iInstance);
        if (ReadRegistry())
        {
            WriteEventLog("DllMain: Registry Key Not Present\n",TRUE);
            return(FALSE);
        };

wsprintf(pProgId,"%s%d(%s,%d)",pPName,iInstance,szServer,iSPNumber);
    GetComputerName(szMyHost,&dwCNSize);
    szMyHost[dwCNSize] = 0;
    if (SQLAllocHandleStd(SQL_HANDLE_ENV,SQL_NULL_HANDLE,&henv) !=
SQL_SUCCESS)
    {
        wsprintf(szDiag,"DllMain(%s): Allocate Environment
Failed\n"
                "ServerName=%s,DB=%s,User=%s,PW=%s,Retries=%d\n",
                VERSIONINFO,szServer,szDatabase,szUser,szPassword,iDeadlockRetry);
        WriteEventLog(szDiag,FALSE);
        return FALSE;
    };

        #ifdef LONG_WID
            WriteEventLog("tpccsvr - long w_id", false);
        #endif
        #ifdef USE_SNAC
            WriteEventLog("tpccsvr - using SNAC instead
of ODBC", false);
        #endif

        wsprintf(szDiag,"DllMain(%s): Initialization Complete\n"
                "ServerName=%s,DB=%s,User=%s,PW=%s,Retries=%d\n",
                VERSIONINFO,szServer,szDatabase,szUser,szPassword,iDeadlockRetry);
        WriteEventLog(szDiag,FALSE);
        break;

        case DLL_PROCESS_DETACH:
            WriteEventLog("DllMain: Closing down for Process
Detach\n",FALSE);
            if (henv != NULL)
                SQLFreeEnv(henv);
            _Module.Term();
            //if (fp != NULL)
            //    fclose(fp);

            break;
    }; // switch ul_reason_for_call
}
catch (...)
{
    wsprintf(szDiag,"DllMain: Unhandled exception during %s call\n",
            ul_reason_for_call == DLL_PROCESS_ATTACH ? "ATTACH" : "DETACH");
    WriteEventLog(szDiag,TRUE);
    return FALSE;
}

```

```

};
return TRUE;
}; // DllMain
STDAPI DllCanUnloadNow(void)
{
    return (_Module.GetLockCount()==0) ? S_OK : S_FALSE;
};
STDAPI DllGetClassObject(REFCLSID rclsid,REFIID riid,LPVOID* ppv)
{
    return _Module.GetClassObject(rclsid,riid,ppv);
};
STDAPI DllRegisterServer(void)
{
    WriteEventLog("DllRegisterServer", FALSE);

    // registers object, typelib and all interfaces in typelib
    return _Module.RegisterServer(TRUE);
};
STDAPI DllUnregisterServer(void)
{
    WriteEventLog("DllUnregisterServer", FALSE);

    _Module.UnregisterServer();
    return S_OK;
};
inline void ReleaseInterface(IUnknown *pUnk)
{
    if (pUnk)
    {
        pUnk->Release();
        pUnk = NULL;
    };
};
CTPCC_Common::CTPCC_Common()
{
    char szDiag[300];
    Sleep(100);
    m_bCanBePooled = TRUE;
    m_iMaxRetry = iDeadlockRetry;
    m_lRefId = InterlockedIncrement(&lCount);
    InterlockedIncrement(&lActive);
    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;
    wsprintf(szDiag,"CTPCC_Common: Initialized %ld\n",m_lRefId);
}

```

```

    WriteEventLog(szDiag, FALSE);
};

CTPCC_Common::~CTPCC_Common()
{
    char szDiag[300];
    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);
    InterlockedDecrement(&lActive);
    wsprintf(szDiag, "~CTPCC_Common(%ld): Database closed\n", m_lRefId);
    WriteEventLog(szDiag, FALSE);
};

HRESULT CTPCC_Common::CallSetComplete()
{
    IObjectContext * pObjectContext = NULL;
    HRESULT hr = CoGetObjectContext( IID_IObjectContext, (void
**) &pObjectContext );
    pObjectContext->SetComplete();
    ReleaseInterface(pObjectContext);
    return hr;
};

bool CTPCC_Common::CheckDBError(char * pSource)
{
    RETCODE rc;
    SDWORD lNativeError;
    char szState[6];
    char szMsg[SQL_MAX_MESSAGE_LENGTH];
    char szTmp[7 * (SQL_MAX_MESSAGE_LENGTH + 2)];
    int iInx;
    int iMsgs = 0;
    bool bRslt = FALSE;
    iInx = wsprintf(szTmp, "%s", pSource);
    while (iMsgs < 6)
    {
        rc = SQLError(henv, m_hdbc, m_hstmt, (BYTE *) &szState, &lNativeError,
        (BYTE *) &szMsg, sizeof(szMsg), NULL);
        if (rc == SQL_NO_DATA)
            break;
        iMsgs++;
        // check for deadlock
        if (lNativeError == 1205)
        {
            iInx += wsprintf(szTmp + iInx, "Deadlock retry
(%d)\n", m_iTryCount);
            Sleep(10 * m_iTryCount);
            continue;
        };
        bRslt = TRUE;
        iInx += wsprintf(szTmp + iInx, "(%ld)%s\n", lNativeError, szMsg);
    }; // while iMsgs
    SQLFreeStmt(m_hstmt, SQL_CLOSE);
    WriteEventLog(szTmp, TRUE);
};

```

```

    if ((fp = fopen("c:\\temp\\dberror.txt", "a")) != NULL)
    {
        fprintf(fp, "%s\n", szTmp);
        fclose(fp);
    }

    return(bRslt);
}; // CheckDBError

STDMETHODIMP CTPCC_Common::Construct(IDispatch * pUnk)
{
    char szDiag[300];
    char szConnectStr[256];
    char szOutStr[1024];
    SQLSMALLINT iOutStrLen;
    char buffer[128];
    RETCODE rc;

    try
    {
        if (SQLAllocHandle(SQL_HANDLE_DBC, henv, &m_hdbc) != SQL_SUCCESS)
        {
            wsprintf(szDiag, "Construct(%ld): Allocate DBC Handle
failed\n", m_lRefId);
            CheckDBError(szDiag);
            return(E_FAIL);
        };
        if (SQLSetConnectOption(m_hdbc, SQL_PACKET_SIZE, 4096) != SQL_SUCCESS)
        {
            wsprintf(szDiag,
            "Construct(%ld): Set Connection Packet Size failed\n",
            m_lRefId);
            CheckDBError(szDiag);
            return(E_FAIL);
        };
        wsprintf(szConnectStr,
#ifdef USE_SNAC
        "DRIVER=SQL Native
Client;SERVER=%s;UID=%s;PWD=%s;DATABASE=%s;WSID=%s-%ld",
        szServer, szUser, szPassword, szDatabase, szMyHost, m_lRefId);
#else
        "DRIVER=SQL Server;SERVER=%s;UID=%s;PWD=%s;DATABASE=%s;WSID=%s-
%ld",
        szServer, szUser, szPassword, szDatabase, szMyHost, m_lRefId);
#endif

        rc = SQLDriverConnect(m_hdbc, NULL, (SQLCHAR * ) szConnectStr,
        sizeof(szConnectStr), (SQLCHAR * ) szOutStr, sizeof(szOutStr),
        &iOutStrLen, SQL_DRIVER_NOPROMPT);
        if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
        {
            wsprintf(szDiag, "Construct(%ld): Connect failed\n", m_lRefId);
            CheckDBError(szDiag);
            return(E_FAIL);
        };
        if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmt) != SQL_SUCCESS)
        {
            wsprintf(szDiag, "Construct(%ld): Allocate STMT Handle
failed\n", m_lRefId);
            CheckDBError(szDiag);
        };
    }
};

```

```

        return(E_FAIL);
    };

    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)
    {
        wsprintf(szDiag,"Construct(%ld): Set DB Options
failed\n",m_lRefId);
        CheckDBError(szDiag);
        return(E_FAIL);
    };
    SQLFreeHandle(SQL_HANDLE_STMT,m_hstmt);

    if (InitNOParams())
        return(E_FAIL);
    if (InitPYParams())
        return(E_FAIL);
    if (InitDLParams())
        return(E_FAIL);
    if (InitOSParams())
        return(E_FAIL);
    if (InitSLParams())
        return(E_FAIL);
    }
    catch (...)
    {
        wsprintf(szDiag,"Construct(%ld): Unhandled exception\n",m_lRefId);
        WriteEventLog(szDiag,TRUE);
        return(E_FAIL);
    };

    wsprintf(szDiag,"Construct(%ld): Db connection
initialized\n",m_lRefId);
    WriteEventLog(szDiag,FALSE);
    return(S_OK);
}; // Construct

//=====
// FUNCTION: UtilStrCpy
//
// Copies n characters from string pSrc to pDst and places a null
// null character at the end of the destination string. Unlike
// strncpy this function ensures that the result string is always
// null terminated.
//
//=====
inline static void UtilStrCpy(char * pDest, const unsigned char * pSrc,
int n)
{
    strncpy(pDest, (char *)pSrc,n);
    pDest[n] = '\0';
    return;
}; // UtilStrCpy

bool CTPCC_Common::InitNOParams(void)
{
    char szDiag[300];
    int i, j;

```

```

        if (SQLAllocHandle(SQL_HANDLE_STMT,m_hdbc,&m_hstmtNewOrder) !=
SQL_SUCCESS
        || SQLAllocHandle(SQL_HANDLE_DESC,m_hdbc,&m_descNewOrderCols1) !=
SQL_SUCCESS
        || SQLAllocHandle(SQL_HANDLE_DESC,m_hdbc,&m_descNewOrderCols2) !=
SQL_SUCCESS
        )
        {
            wsprintf(szDiag,"InitNOParams(%ld): Allocate Stmt Handles
failed\n",m_lRefId);
            CheckDBError(szDiag);
            return(TRUE);
        };

        m_hstmt = m_hstmtNewOrder;

        if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
m_descNewOrderCols1,SQL_IS_POINTER) != SQL_SUCCESS)
        {
            wsprintf(szDiag,"InitNOParams(%ld): SetStmtAttr NOCols1
failed\n",m_lRefId);
            CheckDBError(szDiag);
            return(TRUE);
        };

        i = 0;
#ifdef LONG_WID
        if
(SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,
#else
        if
(SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SSHORT,SQL_SMALLINT,
#endif
0,0,&m_TData.NOData.w_id,0,NULL) != SQL_SUCCESS
        ||
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_UTINYINT,SQL_TINYINT,
0,0,&m_TData.NOData.d_id,0,NULL) != SQL_SUCCESS
        ||
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,
0,0,&m_TData.NOData.c_id,0,NULL) != SQL_SUCCESS
        ||
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_UTINYINT,SQL_TINYINT,
0,0,&m_TData.NOData.o_ol_cnt,0,NULL) != SQL_SUCCESS
        ||
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_UTINYINT,SQL_TINYINT,
0,0,&m_TData.NOData.o_all_local,0,NULL) != SQL_SUCCESS
        )
        {
            wsprintf(szDiag,"InitNOParams(%ld): Bind Param failed\n",m_lRefId);
            CheckDBError(szDiag);
            return(TRUE);
        };

        for (j=0; j < MAX_OL; j++)
        {
            if
(SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,
0,0,&m_TData.NOData.OL[j].ol_i_id,0,NULL) != SQL_SUCCESS
#ifdef LONG_WID
            ||
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,

```

```

#else
    ||
    SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,
    #endif
        0, 0, &m_TData.NOData.Ol[j].ol_supply_w_id, 0, NULL) !=
    SQL_SUCCESS
    ||
    SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,
        0, 0, &m_TData.NOData.Ol[j].ol_quantity, 0, NULL) !=
    SQL_SUCCESS
    )
    {
        wsprintf(szDiag, "InitNOParams(%ld): Bind Param(%d)
failed\n", m_lRefId, j);
        CheckDBError(szDiag);
        return(TRUE);
    };
};

// set the bind offset pointer
if (SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROW_BIND_OFFSET_PTR,
    &m_BindOffset, SQL_IS_POINTER) != SQL_SUCCESS)
    {
        wsprintf(szDiag, "InitNOParams(%ld): SetStmtAttr BindOffset
failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };

i = 0;
if (SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.NOData.Ol[0].ol_i_name,
    sizeof(m_TData.NOData.Ol[j].ol_i_name), NULL) != SQL_SUCCESS
    ||
    SQLBindCol(m_hstmt, ++i, SQL_C_SSHORT, &m_TData.NOData.Ol[0].ol_stock,
        0, NULL) != SQL_SUCCESS
    ||
    SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.NOData.Ol[0].ol_brand_generic,
        sizeof(m_TData.NOData.Ol[j].ol_brand_generic), NULL) !=
    SQL_SUCCESS
    ||
    SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.NOData.Ol[0].ol_i_price,
        0, NULL) != SQL_SUCCESS
    ||
    SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.NOData.Ol[0].ol_amount,
        0, NULL) != SQL_SUCCESS
    )
    {
        wsprintf(szDiag, "InitNOParams(%ld): Bind Col Ol %d
failed\n", m_lRefId, j);
        CheckDBError(szDiag);
        return(TRUE);
    };

// associate the column bindings for the second result set
if (SQLSetStmtAttrW(m_hstmt, SQL_ATTR_APP_ROW_DESC,
    m_descNewOrderCols2, SQL_IS_POINTER) != SQL_SUCCESS)
    {
        wsprintf(szDiag, "InitNOParams(%ld): SetStmtAttr NOCols2
failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };

```

```

};

i = 0;
if (SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.NOData.w_tax,
    0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.NOData.d_tax,
        0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_SLONG, &m_TData.NOData.o_id,
        0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.NOData.c_last,
        sizeof(m_TData.NOData.c_last), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.NOData.c_discount,
        0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.NOData.c_credit,
        sizeof(m_TData.NOData.c_credit), NULL) != SQL_SUCCESS
    ||
    SQLBindCol(m_hstmt, ++i, SQL_C_TYPE_TIMESTAMP, &m_TData.NOData.o_entry_d,
        0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_SLONG, &no_commit_flag,
        0, NULL) != SQL_SUCCESS
    )
    {
        wsprintf(szDiag, "InitNOParams(%ld): Bind Col failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };
return(FALSE);
}; // InitNOParams

HRESULT CTPCC_Common::NewOrder(int * iSize, UCHAR ** pTData)
{
    NEW_ORDER_DATA * pnod;
    RETCODE rc;
    bool bRetry;
    bool bUnique;
    char szDiag[300];

    // 0      1      2
    // 012345678901234567890123456789
    wchar_t szSqlTemplate[] = L"{call tpcc_neworder(?,?,?,?,?,
        L"?,?,?,?,?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?,"
        L"?,?,?,?,?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?,"
        L"?,?,?,?,?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";
    wchar_t szSqlTemplateNew[] = L"{call tpcc_neworder_new(?,?,?,?,?,
        L"?,?,?,?,?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?,"
        L"?,?,?,?,?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?,"
        L"?,?,?,?,?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";

    // If supplied, insert stored procedure number into name
    if (iSPNumber)
        wcsncpy(&szSqlTemplate[8], wszSPNumber, 2);

    int i, j;

    pnod = (NEW_ORDER_DATA *) *pTData;
    try
    {
        m_hstmt = m_hstmtNewOrder;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
    }

```

```

// associate the parameter and column bindings for this transaction
if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
 m_descNewOrderCols1,SQL_IS_POINTER ) != SQL_SUCCESS)
{
    wsprintf(szDiag,"NewOrder(%ld): SetStmtAttr NOCols1\n",m_lRefId);
    CheckDBError(szDiag);
    pnod->bTPRslt = TRUE;
    pnod->iTPRslt = SVCERR_ODBC;
    strcpy(pnod->execution_status,"Error, Bind NOCols1 Failed");
    return(S_OK);
};

// check whether any order lines are for a remote warehouse
pnod->o_all_local = 1;
for (i = 0; i < pnod->o_ol_cnt; i++)
{
    if (pnod->Ol[i].ol_supply_w_id != pnod->w_id)
    {
        pnod->o_all_local = 0;
        break;
    };
};

#ifdef YUKON
    // check if all ol_i_id are unique - we'll use tpcc_neworder_new
    bUnique = TRUE;
    for (i = 0; i < pnod->o_ol_cnt; i++)
    {
        for (j = i + 1; j < pnod->o_ol_cnt; j++)
        {
            if (pnod->Ol[i].ol_i_id == pnod->Ol[j].ol_i_id)
            {
                bUnique = FALSE;
                break;
            };
        };
        if (bUnique == FALSE)
            break;
    };
#else
    //if not YUKON handle all as if ol_i_id not unique - use
    tpcc_neworder
        bUnique = FALSE;
#endif

// clip statement buffer based on number of parameters
// fixed part is 29 (33) chars and variable part is 6 chars per
line item
wcscopy(&szSqlTemplate[29 + pnod->o_ol_cnt * 6],L"");
wcscopy(&szSqlTemplateNew[33 + pnod->o_ol_cnt * 6],L"");

memcpy(&m_TData.NOData, pnod, sizeof(NEW_ORDER_DATA));
for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
{
    bRetry = FALSE;
    m_BindOffset = 0;

    if (bUnique == TRUE)
        rc = SQLExecDirectW(m_hstmt, (SQLWCHAR *)
szSqlTemplateNew,SQL_NTS);
    else

```

```

        rc = SQLExecDirectW(m_hstmt, (SQLWCHAR *)
szSqlTemplate,SQL_NTS);

        if (m_iTryCount > 1 && (rc == SQL_SUCCESS || rc ==
SQL_SUCCESS_WITH_INFO))
        {
            wsprintf(szDiag,"NewOrder(%ld): Execute Direct Attempt %ld
SUCCESS \n",m_lRefId, m_iTryCount);
            WriteEventLog(szDiag, FALSE);
        }

        if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
        {
            wsprintf(szDiag,"NewOrder(%ld): Execute Direct\n",m_lRefId);
            if (CheckDBError(szDiag))
            {
                m_iTPRslt = SVCERR_ODBC;
                break;
            };
            continue;
        }

// Get order line results
m_TData.NOData.total_amount = 0;
for (i = 0; i < m_TData.NOData.o_ol_cnt; i++)
{
    // set the bind offset value...
    m_BindOffset = i * sizeof(m_TData.NOData.Ol[0]);
    if (SQLFetch(m_hstmt) == SQL_ERROR)
    {
        wsprintf(szDiag,"NewOrder(%ld): Fetch
Ol\n",m_lRefId);

        if (CheckDBError(szDiag))
            m_iTPRslt = SVCERR_ODBC;
        else
            bRetry = TRUE;
        break;
    };

    if ((bUnique == FALSE) || (i ==
m_TData.NOData.o_ol_cnt - 1))
    {
        // move to the next resultset
        if (SQLMoreResults(m_hstmt) == SQL_ERROR)
        {
            wsprintf(szDiag,"NewOrder(%ld):
MoreResults Ol%d\n",m_lRefId,(i + 1));
            if (CheckDBError(szDiag))
                m_iTPRslt = SVCERR_ODBC;
            else
                bRetry = TRUE;
            break;
        };
    };

    m_TData.NOData.total_amount +=
m_TData.NOData.Ol[i].ol_amount;
}; // for o_ol_cnt
if (m_iTPRslt == SVCERR_ODBC)
    break;
if (bRetry)
    continue;

```

```

// associate the column bindings for the second result set
if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
m_descNewOrderCols2,SQL_IS_POINTER) != SQL_SUCCESS)
{
    wsprintf(szDiag,"NewOrder(%ld): SetStmtAttr
NOCols2\n",m_lRefId);
    if (CheckDBError(szDiag))
    {
        m_iTPRslt = SVCERR_ODBC;
        break;
    };
    continue;
};
if (SQLFetch(m_hstmt) == SQL_ERROR)
{
    wsprintf(szDiag,"NewOrder(%ld): Fetch\n",m_lRefId);
    if (CheckDBError(szDiag))
    {
        m_iTPRslt = SVCERR_ODBC;
        break;
    };
    continue;
};

SQLFreeStmt(m_hstmt,SQL_CLOSE);

if (m_no_commit_flag == 1)
{
    m_TData.NOData.total_amount *=
        ((1 + m_TData.NOData.w_tax + m_TData.NOData.d_tax) *
        (1 - m_TData.NOData.c_discount));
    m_bTPRslt = FALSE;
    m_iTPRslt = SVC_NOERROR;
}
else
    m_iTPRslt = SVC_BADITEMID;
break;
}; // for m_iMaxRetry
memcpy(pnod,&m_TData.NOData,sizeof(NEW_ORDER_DATA));
pnod->bTPRslt = m_bTPRslt;
pnod->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
{
    strcpy(pnod->execution_status,"Transaction committed.");
    return(S_OK);
};
if (m_iTPRslt == SVC_BADITEMID)
{
    strcpy(pnod->execution_status,"Item number is not valid.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_DEADLOCK)
    wsprintf(pnod->execution_status,"Hit retry
max(%d).",m_iMaxRetry);
else
    strcpy(pnod->execution_status,"DBTranAbort, Check Input Data");
return(S_OK);
}
catch (...)
{

```

```

    wsprintf(szDiag,"NewOrder(%ld): Unhandled exception\n",m_lRefId);
    WriteEventLog(szDiag,TRUE);
    m_bCanBePooled = FALSE;
    pnod->bTPRslt = TRUE;
    pnod->iTPRslt = SVCERR_EXCEPTION;
    strcpy(pnod->execution_status,"Error, Unhandled exception");
    return(S_OK);
};
}; // NewOrder
bool CTPCC_Common::InitPYParams(void)
{
    int i;
    char szDiag[300];
    if (SQLAllocHandle(SQL_HANDLE_STMT,m_hdbc,&m_hstmtPayment) !=
SQL_SUCCESS)
    {
        wsprintf(szDiag,"InitPYParams(%ld): Allocate Stmt Handle
failed\n",m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };
    m_hstmt = m_hstmtPayment;
    i = 0;
#ifdef LONG_WID
    if
        (SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,
0,0,&m_TData.PYData.w_id,0,NULL) != SQL_SUCCESS
        ||
        SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,
#else
        if
            (SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SSHORT,SQL_SMALLINT,
0,0,&m_TData.PYData.w_id,0,NULL) != SQL_SUCCESS
            ||
            SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SSHORT,SQL_SMALLINT,
#endif
0,0,&m_TData.PYData.c_w_id,0,NULL) != SQL_SUCCESS
        ||
        SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_DOUBLE,SQL_NUMERIC,
6,2,&m_TData.PYData.h_amount,0,NULL) != SQL_SUCCESS
        ||
        SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_UTINYINT,SQL_TINYINT,
0,0,&m_TData.PYData.d_id,0,NULL) != SQL_SUCCESS
        ||
        SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_UTINYINT,SQL_TINYINT,
0,0,&m_TData.PYData.c_d_id,0,NULL) != SQL_SUCCESS
        ||
        SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,
0,0,&m_TData.PYData.c_id,0,NULL) != SQL_SUCCESS
        || SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_CHAR,SQL_CHAR,
sizeof(m_TData.PYData.c_last),0,&m_TData.PYData.c_last,
sizeof(m_TData.PYData.c_last), NULL) != SQL_SUCCESS
    )
    {
        wsprintf(szDiag,"InitPYParams(%ld): Bind Param
failed\n",m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };
    i = 0;

```



```

if (SQLBindCol(m_hstmt, ++i, SQL_C_SLONG, &m_TData.PYData.
    c_id, 0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_last,
    sizeof(m_TData.PYData.c_last), NULL) != SQL_SUCCESS
    ||
SQLBindCol(m_hstmt, ++i, SQL_C_TYPE_TIMESTAMP, &m_TData.PYData.h_date,
    0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_street_1,
    sizeof(m_TData.PYData.w_street_1), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_street_2,
    sizeof(m_TData.PYData.w_street_2), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_city,
    sizeof(m_TData.PYData.w_city), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_state,
    sizeof(m_TData.PYData.w_state), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_zip,
    sizeof(m_TData.PYData.w_zip), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_street_1,
    sizeof(m_TData.PYData.d_street_1), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_street_2,
    sizeof(m_TData.PYData.d_street_2), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_city,
    sizeof(m_TData.PYData.d_city), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_state,
    sizeof(m_TData.PYData.d_state), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_zip,
    sizeof(m_TData.PYData.d_zip), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_first,
    sizeof(m_TData.PYData.c_first), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_middle,
    sizeof(m_TData.PYData.c_middle), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_street_1,
    sizeof(m_TData.PYData.c_street_1), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_street_2,
    sizeof(m_TData.PYData.c_street_2), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_city,
    sizeof(m_TData.PYData.c_city), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_state,
    sizeof(m_TData.PYData.c_state), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_zip,
    sizeof(m_TData.PYData.c_zip), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_phone,
    sizeof(m_TData.PYData.c_phone), NULL) != SQL_SUCCESS
    ||
SQLBindCol(m_hstmt, ++i, SQL_C_TYPE_TIMESTAMP, &m_TData.PYData.c_since,
    0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_credit,
    sizeof(m_TData.PYData.c_credit), NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.PYData.c_credit_lim,
    0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.PYData.c_discount,
    0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.PYData.c_balance,
    0, NULL) != SQL_SUCCESS
    || SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_data,
    sizeof(m_TData.PYData.c_data), NULL) != SQL_SUCCESS
)
{
    wsprintf(szDiag, "InitPYParams(%ld): Bind Col failed\n", m_lRefId);
    CheckDBError(szDiag);
    return(TRUE);
}

```

```

};
return(FALSE);
}; // InitPYParams
HRESULT CTPCC_Common::Payment(int * iSize, UCHAR ** pTData)
{
    PAYMENT_DATA * ppd;
    RETCODE rc;
    char szDiag[300];

    wchar_t szSqlTemplate[] = L"{call tpcc_payment(?,?,?,?,,?)}";
    // If supplied, insert stored procedure number into name
    if (ispNumber)
        wcsncpy(&szSqlTemplate[8], wszSPNumber, 2);

    ppd = (PAYMENT_DATA *) *pTData;
    try
    {
        m_hstmt = m_hstmtPayment;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        if (ppd->c_id != 0)
            ppd->c_last[0] = 0;
        memcpy(&m_TData.PYData, ppd, sizeof(PAYMENT_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
        {
            rc = SQLExecDirectW(m_hstmt, (SQLWCHAR *) szSqlTemplate, SQL_NTS);

            if (m_iTryCount > 1 && (rc == SQL_SUCCESS || rc ==
                SQL_SUCCESS_WITH_INFO))
            {
                wsprintf(szDiag, "Payment(%ld): Execute Direct Attempt %ld
                SUCCESS\n", m_lRefId, m_iTryCount);
                WriteEventLog(szDiag, FALSE);
            }

            if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
            {
                wsprintf(szDiag, "Payment(%ld): Execute Direct\n", m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                }
            };
            continue;
        };
        if (SQLFetch(m_hstmt) == SQL_ERROR)
        {
            wsprintf(szDiag, "Payment(%ld): Fetch\n", m_lRefId);
            if (CheckDBError(szDiag))
            {
                m_iTPRslt = SVCERR_ODBC;
                break;
            }
        };
        continue;
    };
    SQLFreeStmt(m_hstmt, SQL_CLOSE);
    if (m_TData.PYData.c_id == 0)
        m_iTPRslt = SVCERR_NOCUSTOMER;
    else

```

```

    {
        m_bTPRslt = FALSE;
        m_iTPRslt = SVC_NOERROR;
    }
    break;
}; // for m_iMaxRetry
memcpy(ppd, &m_TData.PYData, sizeof(PAYMENT_DATA));
ppd->bTPRslt = m_bTPRslt;
ppd->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
{
    strcpy(ppd->execution_status, "Transaction committed.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_NOCUSTOMER)
{
    strcpy(ppd->execution_status, "Invalid Customer id,name.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_DEADLOCK)
    sprintf(ppd->execution_status, "Hit retry max(%d).", m_iMaxRetry);
else
    strcpy(ppd->execution_status, "DBTranAbort, Check Input Data");
return(S_OK);
}
catch (...)
{
    sprintf(szDiag, "Payment(%ld): Unhandled exception\n", m_lRefId);
    WriteEventLog(szDiag, TRUE);
    m_bCanBePooled = FALSE;
    ppd->bTPRslt = TRUE;
    ppd->iTPRslt = SVCERR_EXCEPTION;
    strcpy(ppd->execution_status, "Error, Unhandled exception");
    return(S_OK);
};
}; // Payment

bool CTPCC_Common::InitDLParams(void)
{
    int i;
    char szDiag[300];
    if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmtDelivery) !=
SQL_SUCCESS)
    {
        sprintf(szDiag, "InitDLParams(%ld): Allocate Stmt Handle
failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };
    m_hstmt = m_hstmtDelivery;
    i = 0;
#ifdef LONG_WID
    if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
#else
    if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,
#endif
        0, 0, &m_TData.DLData.w_id, 0, NULL) != SQL_SUCCESS
    ||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,

```

```

        0, 0, &m_TData.DLData.o_carrier_id, 0, NULL) != SQL_SUCCESS
    )
    {
        sprintf(szDiag, "InitDLParams(%ld): Bind Param
failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };
    for (i = 0; i < 10; i++)
    {
        if
(SQLBindCol(m_hstmt, (UWORD)(i+1), SQL_C_SLONG, &m_TData.DLData.o_id[i],
0, NULL) != SQL_SUCCESS)
        {
            sprintf(szDiag, "InitPYParams(%ld): Bind Col (%d)
failed\n", m_lRefId, (i+1));
            CheckDBError(szDiag);
            return(TRUE);
        };
    };
    return(FALSE);
}; // InitDLParams

HRESULT CTPCC_Common::Delivery(int * iSize, UCHAR ** pTData)
{
    DELIVERY_DATA * pdd;
    RETCODE rc;
    char szDiag[300];

    wchar_t szSqlTemplate[] = L"call tpcc_delivery(?,?)";

    // If supplied, insert stored procedure number into name
    if (iSPNumber)
        wcsncpy(&szSqlTemplate[8], wszSPNumber, 2);

    pdd = (DELIVERY_DATA *) *pTData;
    try
    {
        m_hstmt = m_hstmtDelivery;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        memcpy(&m_TData.DLData, pdd, sizeof(DELIVERY_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
        {
            rc = SQLExecDirectW(m_hstmt, (SQLWCHAR *)
szSqlTemplate, SQL_NTS);

            if (m_iTryCount > 1 && (rc == SQL_SUCCESS || rc ==
SQL_SUCCESS_WITH_INFO))
            {
                sprintf(szDiag, "Delivery(%ld): Execute Direct Attempt %ld
SUCCESS \n", m_lRefId, m_iTryCount);
                WriteEventLog(szDiag, FALSE);
            }

            if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
            {
                sprintf(szDiag, "Delivery(%ld): Execute Direct\n", m_lRefId);
                if (CheckDBError(szDiag))
                {

```

```

        m_iTPRslt = SVCERR_ODBC;
        break;
    };
    continue;
};
if ( SQLFetch(m_hstmt) == SQL_ERROR )
{
    wsprintf(szDiag, "Delivery(%ld): Fetch\n", m_lRefId);
    if (CheckDBError(szDiag))
    {
        m_iTPRslt = SVCERR_ODBC;
        break;
    };
    continue;
};
SQLFreeStmt(m_hstmt, SQL_CLOSE);
m_bTPRslt = FALSE;
m_iTPRslt = SVC_NOERROR;
break;
}; // for m_iMaxRetry
memcpy(pdd, &m_TData.DLData, sizeof(DELIVERY_DATA));
pdd->bTPRslt = m_bTPRslt;
pdd->iTPRslt = m_iTPRslt;
return(S_OK);
}
catch (...)
{
    wsprintf(szDiag, "Delivery(%ld): Unhandled exception\n", m_lRefId);
    WriteEventLog(szDiag, TRUE);
    m_bCanBePooled = FALSE;
    pdd->bTPRslt = TRUE;
    pdd->iTPRslt = SVCERR_EXCEPTION;
    return(S_OK);
};
}; // Delivery

bool CTPCC_Common::InitOSParams(void)
{
    char szDiag[300];
    int i;
    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
    )
    {
        wsprintf(szDiag, "InitOSParams(%ld): Allocate Stmt Handles
failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };

    m_hstmt = m_hstmtOrderStatus;

    if (SQLSetStmtAttrW(m_hstmt, SQL_ATTR_APP_ROW_DESC,
        m_descOrderStatusCols1, SQL_IS_POINTER) != SQL_SUCCESS)
    {
        wsprintf(szDiag, "InitOSParams(%ld): SetStmtAttr OSCols1
failed\n", m_lRefId);

```

```

        CheckDBError(szDiag);
        return(TRUE);
    };

    i = 0;
#ifdef LONG_WID
    if
    (SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
#else
    if
    (SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,
#endif
        0, 0, &m_TData.OSData.w_id, 0, NULL) != SQL_SUCCESS
        ||
    SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT,
        0, 0, &m_TData.OSData.d_id, 0, NULL) != SQL_SUCCESS
        ||
    SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
        0, 0, &m_TData.OSData.c_id, 0, NULL) != SQL_SUCCESS
        || SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_CHAR, SQL_CHAR,
        sizeof(m_TData.OSData.c_last), 0, &m_TData.OSData.c_last,
        sizeof(m_TData.OSData.c_last), NULL) != SQL_SUCCESS
    )
    {
        wsprintf(szDiag, "InitOSParams(%ld): Bind Param failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };

    // configure block cursor
    if (SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROW_BIND_TYPE,
        (SQLPOINTER) sizeof(m_TData.OSData.OLOrderStatusData[0]), 0) !=
SQL_SUCCESS
        || SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROWS_FETCHED_PTR,
        &m_RowsFetched, 0) != SQL_SUCCESS
    )
    {
        wsprintf(szDiag, "InitOSParams(%ld): SetStmtAttr RowsFetched
failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };

    i = 0;
#ifdef LONG_WID
    if (SQLBindCol(m_hstmt, ++i, SQL_C_SLONG,
#else
    if (SQLBindCol(m_hstmt, ++i, SQL_C_SSHORT,
#endif
        &m_TData.OSData.OLOrderStatusData[0].ol_supply_w_id, 0, NULL)
!= SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i, SQL_C_SLONG,
        &m_TData.OSData.OLOrderStatusData[0].ol_i_id, 0, NULL) !=
SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i, SQL_C_SSHORT,
        &m_TData.OSData.OLOrderStatusData[0].ol_quantity, 0, NULL) !=
SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE,
        &m_TData.OSData.OLOrderStatusData[0].ol_amount, 0, NULL) !=
SQL_SUCCESS
        || SQLBindCol(m_hstmt, ++i, SQL_C_TYPE_TIMESTAMP,

```

```

        &m_TData.OSData.OlOrderStatusData[0].ol_delivery_d, 0, NULL)
!= SQL_SUCCESS
    }
    {
        wsprintf(szDiag,"InitOSParams(%ld): Bind Col Ol
failed\n",m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };

    if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
        m_descOrderStatusCols2,SQL_IS_POINTER) != SQL_SUCCESS)
    {
        wsprintf(szDiag,"InitOSParams(%ld): SetStmtAttr OSCols2
failed\n",m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };

    i = 0;
    if (SQLBindCol(m_hstmt,++i,SQL_C_SLONG,&m_TData.OSData.c_id,
        0,NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt,++i,SQL_C_CHAR,&m_TData.OSData.c_last,
            sizeof(m_TData.OSData.c_last),NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt,++i,SQL_C_CHAR,&m_TData.OSData.c_first,
            sizeof(m_TData.OSData.c_first),NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt,++i,SQL_C_CHAR,&m_TData.OSData.c_middle,
            sizeof(m_TData.OSData.c_middle), NULL) != SQL_SUCCESS
        ||
SQLBindCol(m_hstmt,++i,SQL_C_TYPE_TIMESTAMP,&m_TData.OSData.o_entry_d,
        0,NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt,++i,SQL_C_SSHORT,&m_TData.OSData.o_carrier_id,
        0,NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt,++i,SQL_C_DOUBLE,&m_TData.OSData.c_balance,
        0,NULL) != SQL_SUCCESS
        || SQLBindCol(m_hstmt,++i,SQL_C_SLONG,&m_TData.OSData.o_id,
        0,NULL) != SQL_SUCCESS
        )
    {
        wsprintf(szDiag,"InitOSParams(%ld): Bind Col failed\n",m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };
    return(FALSE);
}; // InitOSParams

HRESULT CTPCC_Common::OrderStatus(int * iSize,UCHAR ** pTData)
{
    ORDER_STATUS_DATA * posd;
    RETCODE rc;
    char szDiag[300];

    wchar_t szSqlTemplate[] = L"{call tpcc_orderstatus(?,?,?,?)}";

    // If supplied, insert stored procedure number into name
    if (iSPNumber)
        wcsncpy(&szSqlTemplate[8],wszSPNumber,2);

    posd = (ORDER_STATUS_DATA *) *pTData;
    try

```

```

    {
        m_hstmt = m_hstmtOrderStatus;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
            m_descOrderStatusCols1,SQL_IS_POINTER) != SQL_SUCCESS)
        {
            wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
OSCols1\n",m_lRefId);
            CheckDBError(szDiag);
            posd->bTPRslt = TRUE;
            posd->iTPRslt = SVCERR_ODBC;
            strcpy(posd->execution_status,"Error, SetStmt OSCols1");
            return(S_OK);
        };
        if (posd->c_id != 0)
            posd->c_last[0] = 0;
        memcpy(&m_TData.OSData,posd,sizeof(ORDER_STATUS_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
        {
            // configure block cursor
            if
(SQLSetStmtAttrW(m_hstmt,SQL_ATTR_ROW_ARRAY_SIZE,(SQLPOINTER)1,0) !=
SQL_SUCCESS)
            {
                wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
RowArraySize\n",m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            rc = SQLExecDirectW(m_hstmt,(SQLWCHAR*) szSqlTemplate,SQL_NTS);

            if (m_iTryCount > 1 && (rc == SQL_SUCCESS || rc ==
SQL_SUCCESS_WITH_INFO))
            {
                wsprintf(szDiag,"OrderStatus(%ld): Execute Direct Attempt %ld
SUCCESS \n",m_lRefId, m_iTryCount);
                WriteEventLog(szDiag, FALSE);
            }

            if ( ((rc == SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0)) ||
(rc == SQL_ERROR) )
            {
                wsprintf(szDiag,"OrderStatus(%ld): Execute
Direct\n",m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            // configure block cursor
            if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_ROW_ARRAY_SIZE,
                (SQLPOINTER)MAX_OL, 0) != SQL_SUCCESS)
            {

```

```

        wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr RowArraySize
MAX_OL\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    rc = SQLFetchScroll(m_hstmt,SQL_FETCH_NEXT,0);
    if ( ((rc == SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0)) ||
(rc == SQL_ERROR) )
    {
        wsprintf(szDiag,"OrderStatus(%ld): FetchScroll\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    m_TData.OSData.o_ol_cnt = (short)m_RowsFetched;

    if (m_TData.OSData.o_ol_cnt != 0)
    {
        if
(SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,m_descOrderStatusCols2,
SQL_IS_POINTER) != SQL_SUCCESS)
        {
            wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
OSCols2\n",m_lRefId);
            if (CheckDBError(szDiag))
            {
                m_iTPRslt = SVCERR_ODBC;
                break;
            };
            continue;
        };
        if (SQLMoreResults(m_hstmt) == SQL_ERROR)
        {
            wsprintf(szDiag,"OrderStatus(%ld):
MoreResults\n",m_lRefId);
            if (CheckDBError(szDiag))
            {
                m_iTPRslt = SVCERR_ODBC;
                break;
            };
            continue;
        };
        if (SQLFetch(m_hstmt) == SQL_ERROR)
        {
            wsprintf(szDiag,"OrderStatus(%ld): Fetch\n",m_lRefId);
            CheckDBError(szDiag);
            if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
m_descOrderStatusCols1,SQL_IS_POINTER) != SQL_SUCCESS)
            {
                wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr (Fetch)
OSCols1\n",m_lRefId);
                CheckDBError(szDiag);
                posd->bTPRslt = TRUE;
                posd->iTPRslt = SVCERR_ODBC;
            }
        }
    }
}

```

```

        strcpy(posd->execution_status,"Error, SetStmt Cols1
Fetch");
        return(S_OK);
    };
    memcpy(&m_TData.OSData,posd,sizeof(ORDER_STATUS_DATA));
    Sleep(20);
    continue;
};
}; // order lines exist
SQLFreeStmt(m_hstmt,SQL_CLOSE);
if (m_TData.OSData.o_ol_cnt == 0)
    m_iTPRslt = SVCERR_NOORDERS;
else
    if (m_TData.OSData.c_id == 0 && m_TData.OSData.c_last[0] == 0)
        m_iTPRslt = SVCERR_NOCUSTOMER;
    else
    {
        m_bTPRslt = FALSE;
        m_iTPRslt = SVC_NOERROR;
    };
    break;
}; // for m_iMaxRetry
memcpy(posd,&m_TData.OSData,sizeof(ORDER_STATUS_DATA));
posd->bTPRslt = m_bTPRslt;
posd->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
{
    strcpy(posd->execution_status,"Transaction committed.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_NOCUSTOMER)
{
    strcpy(posd->execution_status,"Invalid Customer id,name.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_NOORDERS)
{
    strcpy(posd->execution_status,"Customer has no orders.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_DEADLOCK)
    wsprintf(posd->execution_status,"Hit retry
max(%d).",m_iMaxRetry);
else
    strcpy(posd->execution_status,"DBTranAbort, Check Input Data");
return(S_OK);
}
catch (...)
{
    wsprintf(szDiag,"OrderStatus(%ld): Unhandled exception\n",m_lRefId);
    WriteEventLog(szDiag,TRUE);
    m_bCanBePooled = FALSE;
    posd->bTPRslt = TRUE;
    posd->iTPRslt = SVCERR_EXCEPTION;
    strcpy(posd->execution_status,"Error, Unhandled exception");
    return(S_OK);
};
}; // Orderstatus
bool CTPCC_Common::InitSLParams(void)
{

```

```

char szDiag[300];
int i = 0;
if (SQLAllocHandle(SQL_HANDLE_STMT,m_hdbc,&m_hstmtStockLevel) !=
SQL_SUCCESS )
{
    wsprintf(szDiag,"InitSLParams(%ld): Allocate Stmt Handle
failed\n",m_lRefId);
    CheckDBError(szDiag);
    return(TRUE);
};
m_hstmt = m_hstmtStockLevel;
#ifdef LONG_WID
if
(SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,
#else
if
(SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SSHORT,SQL_SMALLINT,
#endif
    0,0,&m_TData.SLData.w_id, 0, NULL) != SQL_SUCCESS
    ||
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_UTINYINT,SQL_TINYINT,
    0,0,&m_TData.SLData.d_id, 0, NULL) != SQL_SUCCESS
    ||
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SSHORT,SQL_SMALLINT,
    0,0,&m_TData.SLData.thresh_hold, 0, NULL) != SQL_SUCCESS
    )
{
    wsprintf(szDiag,"InitSLParams(%ld): Bind Param failed\n",m_lRefId);
    CheckDBError(szDiag);
    return(TRUE);
};
if (SQLBindCol(m_hstmt,1,SQL_C_SLONG,
&m_TData.SLData.low_stock,0,NULL) != SQL_SUCCESS)
{
    wsprintf(szDiag,"InitSLParams(%ld): Bind Column failed\n",m_lRefId);
    CheckDBError(szDiag);
    return(TRUE);
};
return(FALSE);
}; // InitSLParams

HRESULT CTPCC_Common::StockLevel(int * iSize,UCHAR ** pTData)
{
    STOCK_LEVEL_DATA * psld;
    RETCODE rc;
    char szDiag[300];

    wchar_t szSqlTemplate[] = L"{call tpcc_stocklevel(?,?,?)}";

    // If supplied, insert stored procedure number into name
    if (iSPNumber)
        wcsncpy(&szSqlTemplate[8],wszSPNumber,2);

    psld = (STOCK_LEVEL_DATA *) *pTData;
    try
    {
        m_hstmt = m_hstmtStockLevel;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        memcpy(&m_TData.SLData,psld,sizeof(STOCK_LEVEL_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)

```

```

{
        rc = SQLExecDirectW(m_hstmt, (SQLWCHAR*)
szSqlTemplate,SQL_NTS);

        if (m_iTryCount > 1 && (rc == SQL_SUCCESS || rc ==
SQL_SUCCESS_WITH_INFO))
        {
            wsprintf(szDiag,"StockLevel(%ld): Execute Direct Attempt %ld
SUCCESS \n",m_lRefId, m_iTryCount);
            WriteEventLog(szDiag, FALSE);
        }

        if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
        {
            wsprintf(szDiag,"StockLevel(%ld): Execute Direct\n",m_lRefId);
            if (CheckDBError(szDiag))
            {
                m_iTPRslt = SVCERR_ODBC;
                break;
            };
            continue;
        };
        if (SQLFetch(m_hstmt) == SQL_ERROR)
        {
            wsprintf(szDiag,"StockLevel(%ld): Fetch\n",m_lRefId);
            if (CheckDBError(szDiag))
            {
                m_iTPRslt = SVCERR_ODBC;
                break;
            };
            continue;
        };
        SQLFreeStmt(m_hstmt,SQL_CLOSE);
        m_bTPRslt = FALSE;
        m_iTPRslt = SVC_NOERROR;
        break;
    }; // for m_iMaxRetry
    memcpy(psld,&m_TData.SLData,sizeof(STOCK_LEVEL_DATA));
    psld->bTPRslt = m_bTPRslt;
    psld->iTPRslt = m_iTPRslt;
    if (!m_bTPRslt)
    {
        strcpy(psld->execution_status,"Transaction committed.");
        return(S_OK);
    };
    if (m_iTPRslt == SVCERR_DEADLOCK)
        wsprintf(psld->execution_status,"Hit retry
max(%d).",m_iMaxRetry);
    else
        strcpy(psld->execution_status,"DBTranAbort, Check Input Data");
    return(S_OK);
}
catch (...)
{
    wsprintf(szDiag,"StockLevel(%ld): Unhandled exception\n",m_lRefId);
    WriteEventLog(szDiag,TRUE);
    m_bCanBePooled = FALSE;
    psld->bTPRslt = TRUE;
    psld->iTPRslt = SVCERR_EXCEPTION;
    strcpy(psld->execution_status,"Error, Unhandled exception");
    return(S_OK);
}

```

```

};
// Stocklevel

//=====
//
// Function name: ReadRegistry
//
// Sets global operational parameters from registry if they exist.
// Otherwise, compiled in defaults apply.
//
// Result:
// FALSE Registry entry found
// TRUE Registry entry does not exist
//
//=====
bool ReadRegistry(VOID)
{
    HKEY hkTPCC;
    DWORD dwMax;
    DWORD dwRT;
    CHAR * pszEnvData;
    char szValue[100];
    if (RegOpenKeyEx(HKEY_LOCAL_MACHINE,"SOFTWARE\\Unisys\\TPCC",0,
        KEY_READ, &hkTPCC) != ERROR_SUCCESS )
        return(TRUE);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"SERVERNAME",0,&dwRT,(BYTE *)
&szValue,&dwMax)
    == ERROR_SUCCESS)
        strcpy(szServer,szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"DATABASE",0,&dwRT,(BYTE *) &szValue,&dwMax)
    == ERROR_SUCCESS)
        strcpy(szDatabase,szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"USER",0,&dwRT,(BYTE *) &szValue,&dwMax)
    == ERROR_SUCCESS)
        strcpy(szUser,szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"PASSWORD",0,&dwRT,(BYTE *) &szValue,&dwMax)
    == ERROR_SUCCESS)
        strcpy(szPassword,szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"MAXRETRY",0,&dwRT,(BYTE *) &szValue,&dwMax)
    == ERROR_SUCCESS )
        iDeadlockRetry = abs(atoi(szValue));
    RegCloseKey(hkTPCC);
    if ((pszEnvData = getenv("WEBINSTANCE")) != NULL)
        strcpy(szServer,pszEnvData);
    if ((pszEnvData = getenv("WEBDATABASE")) != NULL)
        strcpy(szDatabase,pszEnvData);
    if ((pszEnvData = getenv("WEBDRIVERNO")) != NULL)
        iInstance = abs(atoi(pszEnvData));
    if ((pszEnvData = getenv("WEBSPNUMBER")) != NULL)
    {
        iSPNumber = abs(atoi(pszEnvData));
        sprintf(wszSPNumber,L"%2.2d",iSPNumber);
    }
};

return(FALSE);
}; // ReadRegistry

```

```

//=====
//
// Function name: WriteEventLog
//
//=====
void WriteEventLog(char * pMsg,bool bError)
{
    WORD wType;
    char szHeader[100];
    char * pDMsgs[2];
    HANDLE hEventLog = NULL;
    if (bError)
        wType = EVENTLOG_ERROR_TYPE;
    else
        wType = EVENTLOG_INFORMATION_TYPE;
    hEventLog = RegisterEventSource(NULL,pProgId);
    sprintf(szHeader,"%s (%d)\n",pProgId,GetCurrentThreadId());
    pDMsgs[0] = szHeader;
    pDMsgs[1] = pMsg;
    if (hEventLog != NULL)
    {
        ReportEvent(hEventLog, // event log handle
            wType, // event type
            0, // category zero
            0, // no event identifier
            NULL, // no user security identifier
            2, // # of substitution strings
            0, // no binary data
            (LPCTSTR *) pDMsgs, // address of string array
            NULL); // address of binary data
        DeregisterEventSource(hEventLog);
    };

    char szTimeStr[64];
    TimeStamp(szTimeStr);

    //if (bError &&(fp != NULL))
    if ((fp != NULL))
    {
        fprintf(fp, "%s (%d) %s\n", szTimeStr, GetCurrentThreadId(),
pMsg);
        fflush(fp);
    }
    return;
}; // WriteEventLog

//=====
//
// Function name: TimebToString
// Converts timeb to yyyy:mm:dd,hh:mm:ss.sss format
//
//=====
CHAR * TimeStamp(char *timeStr)
{
    struct _timeb tb;
    struct tm *ptm;

    _ftime(&tb);
    ptm = localtime(&tb.time);

```

```
wsprintf(timeStr, "%4.4d/%2.2d/%2.2d,%2.2d:%2.2d:%2.2d.%3.3d",
    ptm->tm_year + 1900, ptm->tm_mon + 1, ptm->tm_mday,
    ptm->tm_hour, ptm->tm_min, ptm->tm_sec, tb.millitm);
return(timeStr);
}; // TimebToString
```


Appendix B - Database Design

Build Scripts

BACKUP.SQL

```
declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select 'Start date:', convert(varchar(30),@startdate,9)
backup database tpcc to
    DISK = 'C:\Bigdb\dbbackups\BackupA1\backupA1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupB1\backupB1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupC1\backupC1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupD1\backupD1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupE1\backupE1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupF1\backupF1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupG1\backupG1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupA2\backupA2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupB2\backupB2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupC2\backupC2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupD2\backupD2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupE2\backupE2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupF2\backupF2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupG2\backupG2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupA3\backupA3.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupB3\backupB3.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupC3\backupC3.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupD3\backupD3.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupE3\backupE3.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupF3\backupF3.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupG3\backupG3.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupA4\backupA4.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupB4\backupB4.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupC4\backupC4.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupD4\backupD4.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupE4\backupE4.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupF4\backupF4.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupG4\backupG4.dmp'
with format, stats = 1
select @enddate = getdate()
select 'End date:', convert(varchar(30),@enddate,9)
select 'Elapsed time (in seconds):', datediff(second, @startdate,
@enddate)
go
restore verifyonly from
    DISK = 'C:\Bigdb\dbbackups\BackupA1\backupA1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupB1\backupB1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupC1\backupC1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupD1\backupD1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupE1\backupE1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupF1\backupF1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupG1\backupG1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupA2\backupA2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupB2\backupB2.dmp',
```

```
DISK = 'C:\Bigdb\dbbackups\BackupC2\backupC2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupD2\backupD2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupE2\backupE2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupF2\backupF2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupG2\backupG2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupA3\backupA3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupB3\backupB3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupC3\backupC3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupD3\backupD3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupE3\backupE3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupF3\backupF3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupG3\backupG3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupA4\backupA4.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupB4\backupB4.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupC4\backupC4.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupD4\backupD4.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupE4\backupE4.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupF4\backupF4.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupG4\backupG4.dmp'
```

Go

CREATEDB.SQL

```
SET ANSI_NULL_DFLT_OFF ON
go
use master
go
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
update tpcc_timer
set start_date = (select convert(char(30), getdate(),9))
go
CREATE DATABASE tpcc
ON PRIMARY
(
    NAME = MSSQL_tpcc_root,
    FILENAME = "C:\Bigdb\dbRoots\tpcc_root.mdf",
    SIZE = 10MB, FILEGROWTH = 0),
FILEGROUP MSSQL_misc_fg
(
    NAME = MSSQL_miscA1,
    FILENAME = "C:\Bigdb\cabA\misc1\",
    SIZE = 8900MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscB1,
```



```

( NAME = MSSQL_miscA7,
  FILENAME = "C:\Bigdb\cabA\misc7\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscB7,
  FILENAME = "C:\Bigdb\cabB\misc7\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscC7,
  FILENAME = "C:\Bigdb\cabC\misc7\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscD7,
  FILENAME = "C:\Bigdb\cabD\misc7\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscE7,
  FILENAME = "C:\Bigdb\cabE\misc7\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscF7,
  FILENAME = "C:\Bigdb\cabF\misc7\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscG7,
  FILENAME = "C:\Bigdb\cabG\misc7\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscA8,
  FILENAME = "C:\Bigdb\cabA\misc8\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscB8,
  FILENAME = "C:\Bigdb\cabB\misc8\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscC8,
  FILENAME = "C:\Bigdb\cabC\misc8\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscD8,
  FILENAME = "C:\Bigdb\cabD\misc8\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscE8,
  FILENAME = "C:\Bigdb\cabE\misc8\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscF8,
  FILENAME = "C:\Bigdb\cabF\misc8\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscG8,
  FILENAME = "C:\Bigdb\cabG\misc8\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscA9,
  FILENAME = "C:\Bigdb\cabA\misc9\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscB9,
  FILENAME = "C:\Bigdb\cabB\misc9\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscC9,
  FILENAME = "C:\Bigdb\cabC\misc9\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscD9,
  FILENAME = "C:\Bigdb\cabD\misc9\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscE9,
  FILENAME = "C:\Bigdb\cabE\misc9\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscF9,
  FILENAME = "C:\Bigdb\cabF\misc9\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscG9,

```

```

  FILENAME = "C:\Bigdb\cabG\misc9\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscA10,
  FILENAME = "C:\Bigdb\cabA\misc10\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscB10,
  FILENAME = "C:\Bigdb\cabB\misc10\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscC10,
  FILENAME = "C:\Bigdb\cabC\misc10\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscD10,
  FILENAME = "C:\Bigdb\cabD\misc10\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscE10,
  FILENAME = "C:\Bigdb\cabE\misc10\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscF10,
  FILENAME = "C:\Bigdb\cabF\misc10\",
  SIZE = 8900MB, FILEGROWTH = 0),
( NAME = MSSQL_miscG10,
  FILENAME = "C:\Bigdb\cabG\misc10\",
  SIZE = 8900MB, FILEGROWTH = 0),
FILEGROUP MSSQL_cs_fg
( NAME = MSSQL_csC1,
  FILENAME = "C:\Bigdb\cabC\cs1\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csD1,
  FILENAME = "C:\Bigdb\cabD\cs1\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csE1,
  FILENAME = "C:\Bigdb\cabE\cs1\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csF1,
  FILENAME = "C:\Bigdb\cabF\cs1\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csG1,
  FILENAME = "C:\Bigdb\cabG\cs1\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csA1,
  FILENAME = "C:\Bigdb\cabA\cs1\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csB1,
  FILENAME = "C:\Bigdb\cabB\cs1\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csC2,
  FILENAME = "C:\Bigdb\cabC\cs2\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csD2,
  FILENAME = "C:\Bigdb\cabD\cs2\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csE2,
  FILENAME = "C:\Bigdb\cabE\cs2\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csF2,
  FILENAME = "C:\Bigdb\cabF\cs2\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csG2,
  FILENAME = "C:\Bigdb\cabG\cs2\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csA2,

```



```

( NAME = MSSQL_csG8,
  FILENAME = "C:\Bigdb\cabG\cs8\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csA8,
  FILENAME = "C:\Bigdb\cabA\cs8\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csB8,
  FILENAME = "C:\Bigdb\cabB\cs8\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csC9,
  FILENAME = "C:\Bigdb\cabC\cs9\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csD9,
  FILENAME = "C:\Bigdb\cabD\cs9\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csE9,
  FILENAME = "C:\Bigdb\cabE\cs9\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csF9,
  FILENAME = "C:\Bigdb\cabF\cs9\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csG9,
  FILENAME = "C:\Bigdb\cabG\cs9\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csA9,
  FILENAME = "C:\Bigdb\cabA\cs9\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csB9,
  FILENAME = "C:\Bigdb\cabB\cs9\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csC10,
  FILENAME = "C:\Bigdb\cabC\cs10\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csD10,
  FILENAME = "C:\Bigdb\cabD\cs10\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csE10,
  FILENAME = "C:\Bigdb\cabE\cs10\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csF10,
  FILENAME = "C:\Bigdb\cabF\cs10\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csG10,
  FILENAME = "C:\Bigdb\cabG\cs10\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csA10,
  FILENAME = "C:\Bigdb\cabA\cs10\",
  SIZE = 17350MB, FILEGROWTH = 0),
( NAME = MSSQL_csB10,
  FILENAME = "C:\Bigdb\cabB\cs10\",
  SIZE = 17350MB, FILEGROWTH = 0),
FILEGROUP MSSQL_ord_fg
( NAME = MSSQL_ordD1,
  FILENAME = "C:\Bigdb\cabD\ord1\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_orde1,
  FILENAME = "C:\Bigdb\cabE\ord1\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordF1,
  FILENAME = "C:\Bigdb\cabF\ord1\",
  SIZE = 11700MB, FILEGROWTH = 0),

```

```

( NAME = MSSQL_ordG1,
  FILENAME = "C:\Bigdb\cabG\ord1\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordA1,
  FILENAME = "C:\Bigdb\cabA\ord1\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordB1,
  FILENAME = "C:\Bigdb\cabB\ord1\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordC1,
  FILENAME = "C:\Bigdb\cabC\ord1\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordD2,
  FILENAME = "C:\Bigdb\cabD\ord2\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_orde2,
  FILENAME = "C:\Bigdb\cabE\ord2\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordF2,
  FILENAME = "C:\Bigdb\cabF\ord2\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordG2,
  FILENAME = "C:\Bigdb\cabG\ord2\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_orda2,
  FILENAME = "C:\Bigdb\cabA\ord2\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordB2,
  FILENAME = "C:\Bigdb\cabB\ord2\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordC2,
  FILENAME = "C:\Bigdb\cabC\ord2\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordD3,
  FILENAME = "C:\Bigdb\cabD\ord3\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordE3,
  FILENAME = "C:\Bigdb\cabE\ord3\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordF3,
  FILENAME = "C:\Bigdb\cabF\ord3\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordG3,
  FILENAME = "C:\Bigdb\cabG\ord3\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_orda3,
  FILENAME = "C:\Bigdb\cabA\ord3\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordB3,
  FILENAME = "C:\Bigdb\cabB\ord3\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordC3,
  FILENAME = "C:\Bigdb\cabC\ord3\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordD4,
  FILENAME = "C:\Bigdb\cabD\ord4\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordE4,
  FILENAME = "C:\Bigdb\cabE\ord4\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordF4,

```



```

( NAME = MSSQL_ordE10,
  FILENAME = "C:\Bigdb\cabE\ord10\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordF10,
  FILENAME = "C:\Bigdb\cabF\ord10\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordG10,
  FILENAME = "C:\Bigdb\cabG\ord10\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordA10,
  FILENAME = "C:\Bigdb\cabA\ord10\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordB10,
  FILENAME = "C:\Bigdb\cabB\ord10\",
  SIZE = 11700MB, FILEGROWTH = 0),
( NAME = MSSQL_ordC10,
  FILENAME = "C:\Bigdb\cabC\ord10\",
  SIZE = 11700MB, FILEGROWTH = 0)
LOG ON
( NAME = MSSQL_tpcc_log1,
  FILENAME = "C:\Bigdb\dblogs\tpcclog1\",
  SIZE = 684260MB, FILEGROWTH = 0),
( NAME = MSSQL_tpcc_log2,
  FILENAME = "C:\Bigdb\dblogs\tpcclog2\",
  SIZE = 652450MB, FILEGROWTH = 0)
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))
if exists ( select name from sysobjects where name = 'tpcc_timer' )
drop table tpcc_timer
go

```

DBOPT1.SQL

```

-----
-- File: DBOPT1.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
--
-- Sets database options for load
--
-----
USE master
GO

ALTER DATABASE tpcc SET RECOVERY BULK_LOGGED
GO

EXEC sp_dboption tpcc,'trunc. log on chkpt.',TRUE
GO

ALTER DATABASE tpcc SET TORN_PAGE_DETECTION OFF
GO

ALTER DATABASE tpcc SET PAGE_VERIFY NONE

```

```

GO
USE tpcc
GO
CHECKPOINT
GO

```

DBOPT2.SQL

```

-----
-- File: DBOPT2.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
--
-- Sets database options after load
--
-----
EXEC sp_dboption tpcc,'trunc. log on chkpt.',FALSE
GO
ALTER DATABASE tpcc SET RECOVERY FULL
GO

USE tpcc
GO

CHECKPOINT
GO

sp_configure 'allow updates',1
GO

RECONFIGURE WITH OVERRIDE
GO

DECLARE @msg          varchar(50)

-----
-- OPTIONS FOR SQL SERVER 2005
-- Set option values for user-defined indexes
-----

SET @msg = ' '
PRINT @msg
SET @msg = 'Setting SQL Server indexoptions'
PRINT @msg
SET @msg = ' '
PRINT @msg

EXEC sp_indexoption 'customer', 'DisallowPageLocks', TRUE
EXEC sp_indexoption 'district', 'DisallowPageLocks', TRUE
EXEC sp_indexoption 'warehouse', 'DisallowPageLocks', TRUE
EXEC sp_indexoption 'stock', 'DisallowPageLocks', TRUE
EXEC sp_indexoption 'order_line', 'DisallowRowLocks', TRUE
EXEC sp_indexoption 'orders', 'DisallowRowLocks', TRUE
EXEC sp_indexoption 'new_order', 'DisallowRowLocks', TRUE
EXEC sp_indexoption 'item', 'DisallowRowLocks', TRUE

```

```
EXEC sp_indexoption 'item', 'DisallowPageLocks', FALSE
GO
```

```
Print ' '
Print '*****'
Print 'Pre-specified Locking Hierarchy:'
Print ' Lockflag = 0 ==> No pre-specified hierarchy'
Print ' Lockflag = 1 ==> Lock at Page-level then Table-level'
Print ' Lockflag = 2 ==> Lock at Row-level then Table-level'
Print ' Lockflag = 3 ==> Lock at Table-level'
Print ' '
```

```
SELECT name,
lockflags
FROM sysindexes
WHERE object_id('warehouse') = id OR
object_id('district') = id OR
object_id('customer') = id OR
object_id('stock') = id OR
object_id('orders') = id OR
object_id('order_line') = id OR
object_id('history') = id OR
object_id('new_order') = id OR
object_id('item') = id
ORDER BY lockflags asc
GO
sp_configure 'allow updates',0
GO
```

```
RECONFIGURE WITH OVERRIDE
GO
```

```
EXEC sp_dboption tpcc, 'auto update statistics', FALSE
EXEC sp_dboption tpcc, 'auto create statistics', FALSE
GO
```

```
DECLARE @db_id int,
@tbl_id int
```

```
SET @db_id = DB_ID('tpcc')
SET @tbl_id = OBJECT_ID('tpcc..warehouse')
DBCC PINTABLE (@db_id, @tbl_id)
```

```
SET @tbl_id = OBJECT_ID('tpcc..district')
DBCC PINTABLE (@db_id, @tbl_id)
```

```
SET @tbl_id = OBJECT_ID('tpcc..new_order')
DBCC PINTABLE (@db_id, @tbl_id)
```

```
SET @tbl_id = OBJECT_ID('tpcc..item')
DBCC PINTABLE (@db_id, @tbl_id)
GO
```

REMOVEDB.SQL

```
-----
--
-- File: REMOVEDB.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
--
```

```
-- Copyright Microsoft, 2005
--
-----
USE master
GO
-----
-- remove any existing database and backup files
-----
EXEC sp_dbremove tpcc, dropdev
GO
```

RESTORE.SQL

```
declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select 'Start date:', convert(varchar(30),@startdate,9)
restore database tpcc from
DISK = 'C:\Bigdb\dbackups\backupA1\backupA1.dmp',
DISK = 'C:\Bigdb\dbackups\backupB1\backupB1.dmp',
DISK = 'C:\Bigdb\dbackups\backupC1\backupC1.dmp',
DISK = 'C:\Bigdb\dbackups\backupD1\backupD1.dmp',
DISK = 'C:\Bigdb\dbackups\backupE1\backupE1.dmp',
DISK = 'C:\Bigdb\dbackups\backupF1\backupF1.dmp',
DISK = 'C:\Bigdb\dbackups\backupG1\backupG1.dmp',
DISK = 'C:\Bigdb\dbackups\backupA2\backupA2.dmp',
DISK = 'C:\Bigdb\dbackups\backupB2\backupB2.dmp',
DISK = 'C:\Bigdb\dbackups\backupC2\backupC2.dmp',
DISK = 'C:\Bigdb\dbackups\backupD2\backupD2.dmp',
DISK = 'C:\Bigdb\dbackups\backupE2\backupE2.dmp',
DISK = 'C:\Bigdb\dbackups\backupF2\backupF2.dmp',
DISK = 'C:\Bigdb\dbackups\backupG2\backupG2.dmp',
DISK = 'C:\Bigdb\dbackups\backupA3\backupA3.dmp',
DISK = 'C:\Bigdb\dbackups\backupB3\backupB3.dmp',
DISK = 'C:\Bigdb\dbackups\backupC3\backupC3.dmp',
DISK = 'C:\Bigdb\dbackups\backupD3\backupD3.dmp',
DISK = 'C:\Bigdb\dbackups\backupE3\backupE3.dmp',
DISK = 'C:\Bigdb\dbackups\backupF3\backupF3.dmp',
DISK = 'C:\Bigdb\dbackups\backupG3\backupG3.dmp',
DISK = 'C:\Bigdb\dbackups\backupA4\backupA4.dmp',
DISK = 'C:\Bigdb\dbackups\backupB4\backupB4.dmp',
DISK = 'C:\Bigdb\dbackups\backupC4\backupC4.dmp',
DISK = 'C:\Bigdb\dbackups\backupD4\backupD4.dmp',
DISK = 'C:\Bigdb\dbackups\backupE4\backupE4.dmp',
DISK = 'C:\Bigdb\dbackups\backupF4\backupF4.dmp',
DISK = 'C:\Bigdb\dbackups\backupG4\backupG4.dmp'
with replace, stats = 1
select @enddate = getdate()
select 'End date:', convert(varchar(30),@enddate,9)
select 'Elapsed time (in seconds):', datediff(second, @startdate,
@enddate)
go
use tpcc
EXEC sp_tableoption 'new_order', 'pintable', false
Go
```


TEMPDB.SQL

```
ALTER database tempdb
add file
( NAME = tempdbA10,
  FILENAME = "C:\Bigdb\dbbackups\backupA10\tempdbA10.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 76055 MB),
( NAME = tempdbB10,
  FILENAME = "C:\Bigdb\dbbackups\backupB10\tempdbB10.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 76055 MB),
( NAME = tempdbC10,
  FILENAME = "C:\Bigdb\dbbackups\backupC10\tempdbC10.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 76055 MB),
( NAME = tempdbD10,
  FILENAME = "C:\Bigdb\dbbackups\backupD10\tempdbD10.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 76055 MB),
( NAME = tempdbE10,
  FILENAME = "C:\Bigdb\dbbackups\backupE10\tempdbE10.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 76055 MB),
( NAME = tempdbF10,
  FILENAME = "C:\Bigdb\dbbackups\backupF10\tempdbF10.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 76055 MB)
go
ALTER database tempdb
add log file
( NAME = tempdblogG10,
  FILENAME = "C:\Bigdb\dbbackups\backupG10\tempdblogG10.ldf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 76055 MB)
Go
```

VERIFYTPCCLOAD

```
-----
--
-- File:      VerifyTPCCload.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
-----
SET NOCOUNT ON
PRINT ' '
SELECT CONVERT(Char(30), GETDATE(), 21)
PRINT ' '

```

```
USE tpcc
GO

IF EXISTS (SELECT name
           FROM sysobjects
           WHERE name = 'TPCC_INFO' AND
                 type = 'U')
  DROP TABLE TPCC_INFO
GO
PRINT 'WAREHOUSE TABLE'
SELECT count_big(*)
FROM warehouse
GO

PRINT 'DISTRICT TABLE = (10 * No of warehouses)'
SELECT count_big(*)
FROM district
GO

PRINT 'ITEM TABLE = 100,000'
SELECT count_big(*)
FROM item
GO

PRINT 'CUSTOMER TABLE = (30,000 * No of warehouses)'
SELECT count_big(*)
FROM customer
GO

PRINT 'ORDERS TABLE = (30,000 * No of warehouses)'
SELECT count_big(*)
FROM orders
GO

PRINT 'HISTORY TABLE = (30,000 * No of warehouses)'
SELECT count_big(*)
FROM history
GO

PRINT 'STOCK TABLE = (100,000 * No of warehouses)'
SELECT count_big(*)
FROM stock
GO

PRINT 'ORDER_LINE TABLE = (300,000 * No of warehouses + some change)'
SELECT count_big(*)
FROM order_line
GO

PRINT 'NEW_ORDER TABLE = (9000 * No of warehouses)'
SELECT count_big(*)
FROM new_order
GO

CREATE TABLE TPCC_INFO
( INFO_DATE datetime,
  NUM_WAREHOUSE bigint,
  WAREHOUSE_TARGET bigint,
  NUM_DISTRICT bigint,
  DISTRICT_TARGET bigint,
```

```

NUM_ITEM                bigint,
ITEM_TARGET             bigint,
NUM_CUSTOMER           bigint,
CUSTOMER_TARGET        bigint,
NUM_ORDERS              bigint,
ORDERS_TARGET          bigint,
ORDERS_TARGET_LOW      bigint,
ORDERS_TARGET_HIGH     bigint,
NUM_ORDER_LINE         bigint,
ORDER_LINE_TARGET      bigint,
ORDER_LINE_TARGET_LOW  bigint,
ORDER_LINE_TARGET_HIGH bigint,
NUM_NEW_ORDER          bigint,
NEW_ORDER_TARGET       bigint,
NEW_ORDER_TARGET_LOW   bigint,
NEW_ORDER_TARGET_HIGH  bigint,
NUM_HISTORY             bigint,
HISTORY_TARGET         bigint,
NUM_STOCK              bigint,
STOCK_TARGET           bigint)

GO

DECLARE @NUM_WAREHOUSE    bigint,
        @WAREHOUSE_TARGET bigint,
        @NUM_DISTRICT    bigint,
        @DISTRICT_TARGET bigint,
        @NUM_ITEM        bigint,
        @ITEM_TARGET     bigint,
        @NUM_CUSTOMER    bigint,
        @CUSTOMER_TARGET bigint,
        @NUM_ORDERS      bigint,
        @ORDERS_TARGET   bigint,
        @ORDERS_TARGET_LOW  bigint,
        @ORDERS_TARGET_HIGH  bigint,
        @NUM_ORDER_LINE  bigint,
        @ORDER_LINE_TARGET  bigint,
        @ORDER_LINE_TARGET_LOW  bigint,
        @ORDER_LINE_TARGET_HIGH  bigint,
        @NUM_NEW_ORDER    bigint,
        @NEW_ORDER_TARGET  bigint,
        @NEW_ORDER_TARGET_LOW  bigint,
        @NEW_ORDER_TARGET_HIGH  bigint,
        @NUM_HISTORY      bigint,
        @HISTORY_TARGET   bigint,
        @NUM_STOCK        bigint,
        @STOCK_TARGET     bigint

-- set the local variables prior to inserting them into the TPCC_INFO
table
SELECT @NUM_WAREHOUSE = COUNT_BIG(*)
FROM   warehouse

SELECT @NUM_DISTRICT = COUNT_BIG(*)
FROM   district

SELECT @NUM_ITEM = COUNT_BIG(*)
FROM   item

SELECT @NUM_CUSTOMER = COUNT_BIG(*)
FROM   customer

```

```

SELECT @NUM_ORDERS = COUNT_BIG(*)
FROM   orders

SELECT @NUM_ORDER_LINE = COUNT_BIG(*)
FROM   order_line

SELECT @NUM_NEW_ORDER = COUNT_BIG(*)
FROM   new_order

SELECT @NUM_HISTORY = COUNT_BIG(*)
FROM   history

SELECT @NUM_STOCK = COUNT_BIG(*)
FROM   stock

--- now calculate and set the target values
SELECT @WAREHOUSE_TARGET = @NUM_WAREHOUSE,
       @DISTRICT_TARGET = @NUM_WAREHOUSE * 10,
       @ITEM_TARGET = 100000,
       @CUSTOMER_TARGET = @NUM_WAREHOUSE * 30000,
       @ORDERS_TARGET = @NUM_WAREHOUSE * 30000,
       @ORDERS_TARGET_LOW = @ORDERS_TARGET - FLOOR(@ORDERS_TARGET *
.01),
       @ORDERS_TARGET_HIGH = @ORDERS_TARGET + FLOOR(@ORDERS_TARGET *
.01),
       @ORDER_LINE_TARGET = @NUM_WAREHOUSE * 300000,
       @ORDER_LINE_TARGET_LOW = @ORDER_LINE_TARGET -
FLOOR(@ORDER_LINE_TARGET * .01),
       @ORDER_LINE_TARGET_HIGH = @ORDER_LINE_TARGET +
FLOOR(@ORDER_LINE_TARGET * .01),
       @NEW_ORDER_TARGET = @NUM_WAREHOUSE * 9000,
       @NEW_ORDER_TARGET_LOW = @NEW_ORDER_TARGET -
FLOOR(@NEW_ORDER_TARGET * .01),
       @NEW_ORDER_TARGET_HIGH = @NEW_ORDER_TARGET +
FLOOR(@NEW_ORDER_TARGET * .01),
       @HISTORY_TARGET = @NUM_WAREHOUSE * 30000,
       @STOCK_TARGET = @NUM_WAREHOUSE * 100000

--- insert the values into TPCC_INFO
INSERT INTO TPCC_INFO VALUES (GETDATE(),
                              @NUM_WAREHOUSE,
                              @WAREHOUSE_TARGET,
                              @NUM_DISTRICT,
                              @DISTRICT_TARGET,
                              @NUM_ITEM,
                              @ITEM_TARGET,
                              @NUM_CUSTOMER,
                              @CUSTOMER_TARGET,
                              @NUM_ORDERS,
                              @ORDERS_TARGET,
                              @ORDERS_TARGET_LOW,
                              @ORDERS_TARGET_HIGH,
                              @NUM_ORDER_LINE,
                              @ORDER_LINE_TARGET,
                              @ORDER_LINE_TARGET_LOW,
                              @ORDER_LINE_TARGET_HIGH,
                              @NUM_NEW_ORDER,
                              @NEW_ORDER_TARGET,
                              @NEW_ORDER_TARGET_LOW,
                              @NEW_ORDER_TARGET_HIGH,
                              @NUM_HISTORY,

```

```

                @HISTORY_TARGET,
                @NUM_STOCK,
                @STOCK_TARGET)
GO

--- output the row counts from the build
PRINT ''
PRINT ''
PRINT '-----'
PRINT '| WAREHOUSE TABLE |'
PRINT '-----'
SELECT TOP 1
    CONVERT (CHAR (30), INFO_DATE, 21) AS 'Date',
    NUM_WAREHOUSE AS 'Warehouse Rows',
    WAREHOUSE_TARGET AS 'Warehouse Target',
    CASE WHEN (NUM_WAREHOUSE = WAREHOUSE_TARGET)
        THEN 'OK!'
        ELSE 'ERROR!!!'
    END AS 'Warehouse Message'
FROM TPCC_INFO
GO

PRINT ''
PRINT ''
PRINT '-----'
PRINT '| DISTRICT TABLE |'
PRINT '-----'
SELECT TOP 1
    CONVERT (CHAR (30), INFO_DATE, 21) AS 'Date',
    NUM_DISTRICT AS 'District Rows',
    DISTRICT_TARGET AS 'District Target',
    CASE WHEN (NUM_DISTRICT = DISTRICT_TARGET)
        THEN 'OK!'
        ELSE 'ERROR!!!'
    END AS 'District Message'
FROM TPCC_INFO
GO

PRINT ''
PRINT ''
PRINT '-----'
PRINT '| ITEM TABLE |'
PRINT '-----'
SELECT TOP 1
    CONVERT (CHAR (30), INFO_DATE, 21) AS 'Date',
    NUM_ITEM AS 'Item Rows',
    ITEM_TARGET AS 'Item Target',
    CASE WHEN (NUM_ITEM = ITEM_TARGET)
        THEN 'OK!'
        ELSE 'ERROR!!!'
    END AS 'Item Message'
FROM TPCC_INFO
GO

PRINT ''
PRINT ''
PRINT '-----'
PRINT '| CUSTOMER TABLE |'
PRINT '-----'
SELECT TOP 1
    CONVERT (CHAR (30), INFO_DATE, 21) AS 'Date',

```

```

    NUM_CUSTOMER AS 'Customer Rows',
    CUSTOMER_TARGET AS 'Customer Target',
    CASE WHEN (NUM_CUSTOMER = CUSTOMER_TARGET)
        THEN 'OK!'
        ELSE 'ERROR!!!'
    END AS 'Customer Message'
FROM TPCC_INFO
GO

PRINT ''
PRINT ''
PRINT '-----'
PRINT '| ORDERS TABLE |'
PRINT '-----'
SELECT TOP 1
    CONVERT (CHAR (30), INFO_DATE, 21) AS 'Date',
    NUM_ORDERS AS 'Orders Rows',
    ORDERS_TARGET AS 'Orders Target',
    CASE WHEN (NUM_ORDERS = ORDERS_TARGET)
        THEN 'OK!'
        WHEN (NUM_ORDERS BETWEEN ORDERS_TARGET_LOW AND
ORDERS_TARGET_HIGH)
        THEN 'OK! (within 1%)'
        ELSE 'ERROR!!!'
    END AS 'Orders Message'
FROM TPCC_INFO
GO

PRINT ''
PRINT ''
PRINT '-----'
PRINT '| ORDER LINE TABLE |'
PRINT '-----'
SELECT TOP 1
    CONVERT (CHAR (30), INFO_DATE, 21) AS 'Date',
    NUM_ORDER_LINE AS 'Order Line Rows',
    ORDER_LINE_TARGET AS 'Order Line Target',
    CASE WHEN (NUM_ORDER_LINE = ORDER_LINE_TARGET)
        THEN 'OK!'
        WHEN (NUM_ORDER_LINE BETWEEN ORDER_LINE_TARGET_LOW AND
ORDER_LINE_TARGET_HIGH)
        THEN 'OK! (within 1%)'
        ELSE 'ERROR!!!'
    END AS 'Orders Message'
FROM TPCC_INFO
GO

PRINT ''
PRINT ''
PRINT '-----'
PRINT '| NEW ORDER TABLE |'
PRINT '-----'
SELECT TOP 1
    CONVERT (CHAR (30), INFO_DATE, 21) AS 'Date',
    NUM_NEW_ORDER AS 'New Order Rows',
    NEW_ORDER_TARGET AS 'New Order Target',
    CASE WHEN (NUM_NEW_ORDER = NEW_ORDER_TARGET)
        THEN 'OK!'
        WHEN (NUM_NEW_ORDER BETWEEN NEW_ORDER_TARGET_LOW AND
NEW_ORDER_TARGET_HIGH)
        THEN 'OK! (within 1%)'

```

```

        ELSE 'ERROR!!!'
    END
    AS 'New Order Message'
FROM TPCC_INFO
GO

PRINT ''
PRINT ''
PRINT '-----'
PRINT '|          HISTORY TABLE          |'
PRINT '-----'
SELECT TOP 1
    CONVERT (CHAR(30), INFO_DATE, 21) AS 'Date',
    NUM_HISTORY AS 'History Rows',
    HISTORY_TARGET AS 'History Target',
    CASE WHEN (NUM_HISTORY = HISTORY_TARGET)
        THEN 'OK!'
        ELSE 'ERROR!!!'
    END
    AS 'New Order Message'
FROM TPCC_INFO
GO

PRINT ''
PRINT ''
PRINT '-----'
PRINT '|          STOCK TABLE          |'
PRINT '-----'
SELECT TOP 1
    CONVERT (CHAR(30), INFO_DATE, 21) AS 'Date',
    NUM_STOCK AS 'Stock Rows',
    STOCK_TARGET AS 'Stock Target',
    CASE WHEN (NUM_STOCK = STOCK_TARGET)
        THEN 'OK!'
        ELSE 'ERROR!!!'
    END
    AS 'Stock Message'
FROM TPCC_INFO
GO

```

```

-----
-- Check Indexes
-----

```

```

USE tpcc
GO

PRINT ''
PRINT ''
PRINT '-----'
PRINT '|          TPC-C INDEXES          |'
PRINT '-----'
EXEC sp_helpindex warehouse
EXEC sp_helpindex district
EXEC sp_helpindex item
EXEC sp_helpindex customer
EXEC sp_helpindex orders
EXEC sp_helpindex order_line
EXEC sp_helpindex new_order
EXEC sp_helpindex history
EXEC sp_helpindex stock
GO

```

Indexes and Tables

IDXCUSCL.SQL

```

-----
--
-- File:      IDXCUSCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates clustered index on customer table
-----
USE tpcc
GO

DECLARE @startdate    DATETIME,
        @enddate      DATETIME

SELECT @startdate = GETDATE()
SELECT 'Start date:',
       CONVERT (VARCHAR(30), @startdate, 21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'customer_c1' )
    DROP INDEX customer.customer_c1

CREATE UNIQUE CLUSTERED INDEX customer_c1 ON customer(c_w_id, c_d_id,
c_id)
    ON MSSQL_cs_fg

SELECT @enddate = GETDATE()
SELECT 'End date:',
       CONVERT (VARCHAR(30), @enddate, 21)
SELECT 'Elapsed time (in seconds): ',
       DATEDIFF(second, @startdate, @enddate)
GO

```

IDXCUSNC.SQL

```

-----
--
-- File:      IDXCUSNC.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates non-clustered index on customer table
-----
USE tpcc
GO

DECLARE @startdate    DATETIME,
        @enddate      DATETIME

SELECT @startdate = GETDATE()
SELECT 'Start date:',
       CONVERT (VARCHAR(30), @startdate, 21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'customer_nc1' )
    DROP INDEX customer.customer_nc1

```

```

CREATE UNIQUE NONCLUSTERED INDEX customer_nc1 ON customer(c_w_id, c_d_id,
c_last, c_first, c_id)
    ON MSSQL_cs_fg

SELECT @enddate = GETDATE()
SELECT 'End date:',
    CONVERT(VARCHAR(30),@enddate,21)
SELECT 'Elapsed time (in seconds): ',
    DATEDIFF(second, @startdate, @enddate)
GO

```

IDXDISCL.SQL

```

-----
--
-- File:      IDXDISCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates clustered index on district table
-----
USE tpcc
GO

DECLARE @startdate    DATETIME,
        @enddate      DATETIME

SELECT @startdate = GETDATE()
SELECT 'Start date:',
    CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'district_c1' )
    DROP INDEX district.district_c1

CREATE UNIQUE CLUSTERED INDEX district_c1 ON district(d_w_id, d_id)
    WITH FILLFACTOR=100 ON MSSQL_misc_fg

SELECT @enddate = GETDATE()
SELECT 'End date:',
    CONVERT(VARCHAR(30),@enddate,21)
SELECT 'Elapsed time (in seconds): ',
    DATEDIFF(second, @startdate, @enddate)
GO

```

IDXHISCL.SQL

```

-----
--
-- File:      IDXHISCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates clustered index on history table
--
--           CAUTION: This index is only beneficial for systems
-----

```

```

--           CAUTION: with 8 or more processors.
--           CAUTION: It may negatively impact performance on
--           CAUTION: systems with less than 8 processors.
-----
USE tpcc
GO

DECLARE @startdate    DATETIME,
        @enddate      DATETIME

SELECT @startdate = GETDATE()
SELECT 'Start date:',
    CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'history_c1' )
    DROP INDEX history.history_c1

CREATE UNIQUE CLUSTERED INDEX history_c1 ON history(h_c_w_id, h_date,
h_c_d_id, h_c_id, h_amount)
    ON MSSQL_misc_fg

SELECT @enddate = GETDATE()
SELECT 'End date:',
    CONVERT(VARCHAR(30),@enddate,21)
SELECT 'Elapsed time (in seconds): ',
    DATEDIFF(second, @startdate, @enddate)
GO

```

IDXITMCL.SQL

```

-----
--
-- File:      IDXITMCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates clustered index on item table
-----
USE tpcc
GO

DECLARE @startdate    DATETIME,
        @enddate      DATETIME

SELECT @startdate = GETDATE()
SELECT 'Start date:',
    CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'item_c1' )
    DROP INDEX item.item_c1

CREATE UNIQUE CLUSTERED INDEX item_c1 ON item(i_id)
    ON MSSQL_misc_fg

SELECT @enddate = GETDATE()
SELECT 'End date:',

```

```

        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO

```

IDXNODCL.SQL

```

-----
--
-- File:      IDXNODCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates clustered index on new-order table
--
-----
USE tpcc
GO

DECLARE @startdate    DATETIME,
        @enddate      DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'new_order_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_ord_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO

```

IDXODLCL.SQL

```

-----
--
-- File:      IDXODLCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates clustered index on order-line table
--
-----
USE tpcc
GO

DECLARE @startdate    DATETIME,

```

```

        @enddate      DATETIME

```

```

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'order_line_c1' )
        DROP INDEX order_line.order_line_c1

CREATE UNIQUE CLUSTERED INDEX order_line_c1 ON order_line(ol_w_id,
ol_d_id, ol_o_id, ol_number)
        ON MSSQL_ord_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO

```

IDXORDCL.SQL

```

-----
--
-- File:      IDXORDCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates clustered index on orders table
--
-----
USE tpcc
GO

DECLARE @startdate    DATETIME,
        @enddate      DATETIME

SELECT  @startdate = GETDATE()
SELECT  'Start date:',
        CONVERT(VARCHAR(30),@startdate,21)

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'orders_c1' )
        DROP INDEX orders.orders_c1

CREATE UNIQUE CLUSTERED INDEX orders_c1 ON orders(o_w_id, o_d_id, o_id)
        ON MSSQL_ord_fg

SELECT  @enddate = GETDATE()
SELECT  'End date:',
        CONVERT(VARCHAR(30),@enddate,21)
SELECT  'Elapsed time (in seconds): ',
        DATEDIFF(second, @startdate, @enddate)
GO

```

IDXORDNC.SQL

```
-----  
--  
-- File:      IDXORDNC.SQL  
-- Microsoft TPC-C Benchmark Kit Ver. 4.62  
-- Copyright Microsoft, 2005  
--  
--          Creates non-clustered index on orders table  
-----  
USE tpcc  
GO  
  
DECLARE @startdate    DATETIME,  
        @enddate      DATETIME  
  
SELECT @startdate = GETDATE()  
SELECT 'Start date:',  
       CONVERT(VARCHAR(30),@startdate,21)  
  
--IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'orders_nc1' )  
-- DROP INDEX orders.orders_nc1  
  
--CREATE INDEX orders_nc1 ON orders(o_w_id, o_d_id, o_c_id, o_id)  
-- ON MSSQL_ord_fg  
  
SELECT @enddate = GETDATE()  
SELECT 'End date:',  
       CONVERT(VARCHAR(30),@enddate,21)  
SELECT 'Elapsed time (in seconds): ',  
       DATEDIFF(second, @startdate, @enddate)  
GO
```

IDXSTKCL.SQL

```
-----  
--  
-- File:      IDXSTKCL.SQL  
-- Microsoft TPC-C Benchmark Kit Ver. 4.62  
-- Copyright Microsoft, 2005  
--  
--          Creates clustered index on stock table  
-----  
USE tpcc  
GO  
  
DECLARE @startdate    DATETIME,  
        @enddate      DATETIME  
  
SELECT @startdate = GETDATE()  
SELECT 'Start date:',  
       CONVERT(VARCHAR(30),@startdate,21)  
  
IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'stock_c1' )  
DROP INDEX stock.stock_c1
```

```
CREATE UNIQUE CLUSTERED INDEX stock_c1 ON stock(s_i_id, s_w_id)  
ON MSSQL_cs_fg  
  
SELECT @enddate = GETDATE()  
SELECT 'End date:',  
       CONVERT(VARCHAR(30),@enddate,21)  
SELECT 'Elapsed time (in seconds): ',  
       DATEDIFF(second, @startdate, @enddate)  
GO
```

IDXWARCL.SQL

```
-----  
--  
-- File:      IDXWARCL.SQL  
-- Microsoft TPC-C Benchmark Kit Ver. 4.62  
-- Copyright Microsoft, 2005  
--  
--          Creates clustered index on warehouse table  
-----  
USE tpcc  
GO  
  
DECLARE @startdate    DATETIME,  
        @enddate      DATETIME  
  
SELECT @startdate = GETDATE()  
SELECT 'Start date:',  
       CONVERT(VARCHAR(30),@startdate,21)  
  
IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'warehouse_c1' )  
DROP INDEX warehouse.warehouse_c1  
  
CREATE UNIQUE CLUSTERED INDEX warehouse_c1 ON warehouse(w_id)  
WITH FILLFACTOR=100 ON MSSQL_misc_fg  
  
SELECT @enddate = GETDATE()  
SELECT 'End date:',  
       CONVERT(VARCHAR(30),@enddate,21)  
SELECT 'Elapsed time (in seconds): ',  
       DATEDIFF(second, @startdate, @enddate)  
GO
```

TABLES.SQL

```
-----  
--  
-- File:      TABLES.SQL  
-- Microsoft TPC-C Benchmark Kit Ver. 4.62  
-- Copyright Microsoft, 2005  
--  
--          Creates TPC-C tables  
-----
```

```

SET ANSI_NULL_DFLT_OFF ON
GO

USE tpcc
GO

-----
-- Remove all existing TPC-C tables
-----
if exists ( select name from sysobjects where name = 'warehouse' )
    drop table warehouse
go
if exists ( select name from sysobjects where name = 'district' )
    drop table district
go
if exists ( select name from sysobjects where name = 'customer' )
    drop table customer
go
if exists ( select name from sysobjects where name = 'history' )
    drop table history
go
if exists ( select name from sysobjects where name = 'new_order' )
    drop table new_order
go
if exists ( select name from sysobjects where name = 'orders' )
    drop table orders
go
if exists ( select name from sysobjects where name = 'order_line' )
    drop table order_line
go
if exists ( select name from sysobjects where name = 'item' )
    drop table item
go
if exists ( select name from sysobjects where name = 'stock' )
    drop table stock
go

-----
-- Create new tables
-----
create table warehouse
(
    w_id            int,
    w_ytd          money,
    w_tax          smallmoney,
    w_name         char(10),
    w_street_1    char(20),
    w_street_2    char(20),
    w_city        char(20),
    w_state       char(2),
    w_zip         char(9)
) on MSSQL_misc_fg
go

create table district
(
    d_id          tinyint,
    d_w_id       int,
    d_ytd        money,
    d_next_o_id  int,
    d_tax        smallmoney,

```

```

    d_name       char(10),
    d_street_1  char(20),
    d_street_2  char(20),
    d_city      char(20),
    d_state     char(2),
    d_zip       char(9)
) on MSSQL_misc_fg
go

create table customer
(
    c_id          int,
    c_d_id       tinyint,
    c_w_id       int,
    c_discount   smallmoney,
    c_credit_lim money,
    c_last       char(16),
    c_first      char(16),
    c_credit     char(2),
    c_balance    money,
    c_ytd_payment money,
    c_payment_cnt smallint,
    c_delivery_cnt smallint,
    c_street_1   char(20),
    c_street_2   char(20),
    c_city       char(20),
    c_state      char(2),
    c_zip        char(9),
    c_phone      char(16),
    c_since      datetime,
    c_middle     char(2),
    c_data       text
) on MSSQL_cs_fg
textimage_on MSSQL_misc_fg
go

-- Use the following table option if using c_data varchar(max)
-- sp_tableoption 'customer','large value types out of row','1'
-- go

create table history
(
    h_c_id       int,
    h_c_d_id     tinyint,
    h_c_w_id     int,
    h_d_id       tinyint,
    h_w_id       int,
    h_date       datetime,
    h_amount     smallmoney,
    h_data       char(24)
) on MSSQL_misc_fg
go

create table new_order
(
    no_o_id      int,
    no_d_id      tinyint,
    no_w_id      int
) on MSSQL_ord_fg
go

```



```

create table orders
(
    o_id            int,
    o_d_id         tinyint,
    o_w_id         int,
    o_c_id         int,
    o_carrier_id   tinyint,
    o_ol_cnt       tinyint,
    o_all_local    tinyint,
    o_entry_d      datetime
) on MSSQL_ord_fg
go

create table order_line
(
    ol_o_id        int,
    ol_d_id        tinyint,
    ol_w_id        int,
    ol_number      tinyint,
    ol_i_id        int,
    ol_delivery_d  datetime,
    ol_amount      smallmoney,
    ol_supply_w_id int,
    ol_quantity    smallint,
    ol_dist_info   char(24)
) on MSSQL_ord_fg
go

create table item
(
    i_id          int,
    i_name        char(24),
    i_price       smallmoney,
    i_data        char(50),
    i_im_id       int
) on MSSQL_misc_fg
go

create table stock
(
    s_i_id        int,
    s_w_id        int,
    s_quantity    smallint,
    s_ytd         int,
    s_order_cnt   smallint,
    s_remote_cnt  smallint,
    s_data        char(50),
    s_dist_01     char(24),
    s_dist_02     char(24),
    s_dist_03     char(24),
    s_dist_04     char(24),
    s_dist_05     char(24),
    s_dist_06     char(24),
    s_dist_07     char(24),
    s_dist_08     char(24),
    s_dist_09     char(24),
    s_dist_10     char(24)
) on MSSQL_cs_fg
Go

```

Stored Procedures

DELIVERY.SQL

```

-----
--
-- File:      DELIVERY.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates delivery stored procedure
--
--           Interface Level:      4.20.000
--
-----
SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_delivery' )
    DROP PROCEDURE tpcc_delivery
GO

CREATE PROC tpcc_delivery
    @w_id            int,
    @o_carrier_id   smallint

AS
DECLARE @d_id        tinyint,
        @o_id        int,
        @c_id        int,
        @total       money,
        @oid1        int,
        @oid2        int,
        @oid3        int,
        @oid4        int,
        @oid5        int,
        @oid6        int,
        @oid7        int,
        @oid8        int,
        @oid9        int,
        @oid10       int

SELECT @d_id = 0

BEGIN TRANSACTION d
    WHILE (@d_id < 10)
        BEGIN
            SELECT @d_id = @d_id + 1,
                   @total = 0,
                   @o_id = 0

```

```

SELECT TOP 1
    @o_id = no_o_id
FROM new_order WITH (serializable uplock)
WHERE no_w_id = @w_id AND
      no_d_id = @d_id
ORDER BY no_o_id ASC

IF (@@rowcount <> 0)
BEGIN
    -- claim the order for this district
    DELETE new_order
    WHERE no_w_id = @w_id AND
          no_d_id = @d_id AND
          no_o_id = @o_id

    -- set carrier_id on this order (and get customer id)
    UPDATE orders
    SET o_carrier_id = @o_carrier_id,
        @c_id = o_c_id
    WHERE o_w_id = @w_id AND
          o_d_id = @d_id AND
          o_id = @o_id

    -- set date in all lineitems for this order (and sum amounts)
    UPDATE order_line
    SET ol_delivery_d = GETDATE(),
        @total = @total + ol_amount
    WHERE ol_w_id = @w_id AND
          ol_d_id = @d_id AND
          ol_o_id = @o_id

    -- accummulate lineitem amounts for this order into customer
    UPDATE customer
    SET c_balance = c_balance + @total,
        c_delivery_cnt = c_delivery_cnt + 1
    WHERE c_w_id = @w_id AND
          c_d_id = @d_id AND
          c_id = @c_id
END

SELECT @oid1 = CASE @d_id WHEN 1 THEN @o_id ELSE @oid1 END,
       @oid2 = CASE @d_id WHEN 2 THEN @o_id ELSE @oid2 END,
       @oid3 = CASE @d_id WHEN 3 THEN @o_id ELSE @oid3 END,
       @oid4 = CASE @d_id WHEN 4 THEN @o_id ELSE @oid4 END,
       @oid5 = CASE @d_id WHEN 5 THEN @o_id ELSE @oid5 END,
       @oid6 = CASE @d_id WHEN 6 THEN @o_id ELSE @oid6 END,
       @oid7 = CASE @d_id WHEN 7 THEN @o_id ELSE @oid7 END,
       @oid8 = CASE @d_id WHEN 8 THEN @o_id ELSE @oid8 END,
       @oid9 = CASE @d_id WHEN 9 THEN @o_id ELSE @oid9 END,
       @oid10 = CASE @d_id WHEN 10 THEN @o_id ELSE @oid10 END

END

COMMIT TRANSACTION d

-- return delivery data to client

SELECT @oid1,
       @oid2,
       @oid3,
       @oid4,

```

```

@oid5,
@oid6,
@oid7,
@oid8,
@oid9,
@oid10

GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

-----
-- File:      NEWORD.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
--
-- Creates neworder stored procedure
--
-- Interface Level:      4.20.000
--
-----

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_neworder' )
    DROP PROCEDURE tpcc_neworder
GO

CREATE PROCEDURE tpcc_neworder
    @w_id int,
    @d_id tinyint,
    @c_id int,
    @o_ol_cnt tinyint,
    @o_all_local tinyint,
    @i_id1 int = 0, @s_w_id1 int = 0, @ol_qty1
smallint = 0,
    @i_id2 int = 0, @s_w_id2 int = 0, @ol_qty2
smallint = 0,
    @i_id3 int = 0, @s_w_id3 int = 0, @ol_qty3
smallint = 0,

```

NEWORD.SQL

```

smallint = 0,      @i_id4  int = 0, @s_w_id4  int = 0, @ol_qty4
smallint = 0,      @i_id5  int = 0, @s_w_id5  int = 0, @ol_qty5
smallint = 0,      @i_id6  int = 0, @s_w_id6  int = 0, @ol_qty6
smallint = 0,      @i_id7  int = 0, @s_w_id7  int = 0, @ol_qty7
smallint = 0,      @i_id8  int = 0, @s_w_id8  int = 0, @ol_qty8
smallint = 0,      @i_id9  int = 0, @s_w_id9  int = 0, @ol_qty9
smallint = 0,      @i_id10 int = 0, @s_w_id10 int = 0, @ol_qty10
smallint = 0,      @i_id11 int = 0, @s_w_id11 int = 0, @ol_qty11
smallint = 0,      @i_id12 int = 0, @s_w_id12 int = 0, @ol_qty12
smallint = 0,      @i_id13 int = 0, @s_w_id13 int = 0, @ol_qty13
smallint = 0,      @i_id14 int = 0, @s_w_id14 int = 0, @ol_qty14
smallint = 0,      @i_id15 int = 0, @s_w_id15 int = 0, @ol_qty15

```

```

AS
DECLARE @w_tax      smallmoney,
        @d_tax      smallmoney,
        @c_last     char(16),
        @c_credit   char(2),
        @c_discount smallmoney,
        @i_price    smallmoney,
        @i_name     char(24),
        @i_data     char(50),
        @o_entry_d  datetime,
        @remote_flag int,
        @s_quantity smallint,
        @s_data     char(50),
        @s_dist     char(24),
        @li_no      int,
        @o_id       int,
        @commit_flag tinyint,
        @li_id      int,
        @li_s_w_id  int,
        @li_qty     smallint,
        @ol_number  int,
        @c_id_local int

```

```
BEGIN
```

```
BEGIN TRANSACTION n
```

```

-----
-- get district tax and next available order id and update
-- plus initialize local variables
-----

```

```

UPDATE district
SET   @d_tax      = d_tax,
      @o_id       = d_next_o_id,
      d_next_o_id = d_next_o_id + 1,

```

```

        @o_entry_d  = GETDATE(),
        @li_no      = 0,
        @commit_flag = 1
WHERE  d_w_id      = @w_id AND
      d_id        = @d_id

```

```
-----
-- process orderlines
-----
```

```

WHILE (@li_no < @o_ol_cnt)
BEGIN
    SELECT @li_no = @li_no + 1

```

```
-----
-- set i_id, s_w_id, and qty for this lineitem
-----
```

```

    SELECT @li_id = CASE @li_no
                   WHEN 1 THEN @i_id1
                   WHEN 2 THEN @i_id2
                   WHEN 3 THEN @i_id3
                   WHEN 4 THEN @i_id4
                   WHEN 5 THEN @i_id5
                   WHEN 6 THEN @i_id6
                   WHEN 7 THEN @i_id7
                   WHEN 8 THEN @i_id8
                   WHEN 9 THEN @i_id9
                   WHEN 10 THEN @i_id10
                   WHEN 11 THEN @i_id11
                   WHEN 12 THEN @i_id12
                   WHEN 13 THEN @i_id13
                   WHEN 14 THEN @i_id14
                   WHEN 15 THEN @i_id15

```

```
END,
```

```

    @li_s_w_id = CASE @li_no
                   WHEN 1 THEN @s_w_id1
                   WHEN 2 THEN @s_w_id2
                   WHEN 3 THEN @s_w_id3
                   WHEN 4 THEN @s_w_id4
                   WHEN 5 THEN @s_w_id5
                   WHEN 6 THEN @s_w_id6
                   WHEN 7 THEN @s_w_id7
                   WHEN 8 THEN @s_w_id8
                   WHEN 9 THEN @s_w_id9
                   WHEN 10 THEN @s_w_id10
                   WHEN 11 THEN @s_w_id11
                   WHEN 12 THEN @s_w_id12
                   WHEN 13 THEN @s_w_id13
                   WHEN 14 THEN @s_w_id14
                   WHEN 15 THEN @s_w_id15

```

```
END,
```

```

    @li_qty = CASE @li_no
                 WHEN 1 THEN @ol_qty1
                 WHEN 2 THEN @ol_qty2
                 WHEN 3 THEN @ol_qty3
                 WHEN 4 THEN @ol_qty4
                 WHEN 5 THEN @ol_qty5
                 WHEN 6 THEN @ol_qty6
                 WHEN 7 THEN @ol_qty7
                 WHEN 8 THEN @ol_qty8

```

```

        WHEN 9 THEN @ol_qty9
        WHEN 10 THEN @ol_qty10
        WHEN 11 THEN @ol_qty11
        WHEN 12 THEN @ol_qty12
        WHEN 13 THEN @ol_qty13
        WHEN 14 THEN @ol_qty14
        WHEN 15 THEN @ol_qty15
    END

-----
-- get item data (no one updates item)
-----
SELECT  @i_price    = i_price,
        @i_name     = i_name,
        @i_data     = i_data
FROM    item WITH (repeatableread)
WHERE   i_id        = @li_id

-----
-- update stock values
-----
UPDATE  stock
SET     s_ytd       = s_ytd + @li_qty,
        @s_quantity = s_quantity - @li_qty +
        CASE WHEN (s_quantity - @li_qty < 0)
THEN 91 ELSE 0 END,
        s_order_cnt = s_order_cnt + 1,
        s_remote_cnt = s_remote_cnt +
        CASE WHEN (@li_s_w_id = @w_id) THEN 0
ELSE 1 END,
        @s_data     = s_data,
        @s_dist     = CASE @d_id
        WHEN 1 THEN s_dist_01
        WHEN 2 THEN s_dist_02
        WHEN 3 THEN s_dist_03
        WHEN 4 THEN s_dist_04
        WHEN 5 THEN s_dist_05
        WHEN 6 THEN s_dist_06
        WHEN 7 THEN s_dist_07
        WHEN 8 THEN s_dist_08
        WHEN 9 THEN s_dist_09
        WHEN 10 THEN s_dist_10
        END
WHERE   s_i_id      = @li_id AND
        s_w_id      = @li_s_w_id

-----
-- if there actually is a stock (and item) with these ids, go to work
-----
IF (@@rowcount > 0)
BEGIN
-----
-- insert order_line data (using data from item and stock)
-----
INSERT INTO order_line VALUES( @o_id,
                                @d_id,
                                @w_id,
                                @li_no,
                                @li_id,
                                'dec 31, 1899',
                                @i_price * @li_qty,

```

```

                                @li_s_w_id,
                                @li_qty,
                                @s_dist)
-----
-- send line-item data to client
-----
SELECT  @i_name,
        @s_quantity,
        b_g = CASE WHEN ( (patindex('%ORIGINAL%',@i_data) >
0) AND
(patindex('%ORIGINAL%',@s_data) > 0) )
        THEN 'B' ELSE 'G' END,
        @i_price,
        @i_price * @li_qty
    END
    ELSE
    BEGIN
-----
-- no item (or stock) found - triggers rollback condition
-----
SELECT  '',0, '',0,0
        SELECT @commit_flag = 0
    END
    END
-----
-- get customer last name, discount, and credit rating
-----
SELECT  @c_last      = c_last,
        @c_discount = c_discount,
        @c_credit    = c_credit,
        @c_id_local = c_id
FROM    customer WITH (repeatableread)
WHERE   c_id         = @c_id AND
        c_w_id       = @w_id AND
        c_d_id       = @d_id

-----
-- insert fresh row into orders table
-----
INSERT INTO orders VALUES ( @o_id,
                            @d_id,
                            @w_id,
                            @c_id_local,
                            0,
                            @o_ol_cnt,
                            @o_all_local,
                            @o_entry_d)

-----
-- insert corresponding row into new-order table
-----
INSERT INTO new_order VALUES ( @o_id,
                                @d_id,
                                @w_id)

-----
-- select warehouse tax
-----

```

```

SELECT @w_tax = w_tax
FROM   warehouse WITH (repeatableread)
WHERE  w_id    = @w_id

IF (@commit_flag = 1)
    COMMIT TRANSACTION n
ELSE
-----
-- all that work for nuthin!!!
-----
    ROLLBACK TRANSACTION n
-----
-- return order data to client
-----
    SELECT  @w_tax,
            @d_tax,
            @o_id,
            @c_last,
            @c_discount,
            @c_credit,
            @o_entry_d,
            @commit_flag
END
GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER OFF
GO
SET ANSI_NULLS OFF
GO
-- 8666: full showplan text info (to see if rowset sharing)
--dbcc traceon(8666)
--go
-- prevent sort over tvf
dbcc traceon(8710)
go

use tpcc
go
IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_neworder_new' )
drop procedure tpcc_neworder_new
go
-- neworder_new v2.5 6/23/05 PeterCa
-- lq stock/order_line/client. upd district & ins neworder.
-- cust/warehouse select together, ins order separate
-- uses rownumber to distinct w any transform
-- uses in-memory sort for distinct on iid,wid
-- uses charindex
-- will rollback if (@i_idX,@s_w_idX pairs not unique) OR (@i_idX not
unique).
create proc tpcc_neworder_new
    @w_id          int,
    @d_id          tinyint,
    @c_id          int,
    @o_ol_cnt      tinyint,
    @o_all_local   tinyint,

```

```

    @i_id1 int = 0, @s_w_id1 int = 0, @ol_qty1 smallint = 0,
    @i_id2 int = 0, @s_w_id2 int = 0, @ol_qty2 smallint = 0,
    @i_id3 int = 0, @s_w_id3 int = 0, @ol_qty3 smallint = 0,
    @i_id4 int = 0, @s_w_id4 int = 0, @ol_qty4 smallint = 0,
    @i_id5 int = 0, @s_w_id5 int = 0, @ol_qty5 smallint = 0,
    @i_id6 int = 0, @s_w_id6 int = 0, @ol_qty6 smallint = 0,
    @i_id7 int = 0, @s_w_id7 int = 0, @ol_qty7 smallint = 0,
    @i_id8 int = 0, @s_w_id8 int = 0, @ol_qty8 smallint = 0,
    @i_id9 int = 0, @s_w_id9 int = 0, @ol_qty9 smallint = 0,
    @i_id10 int = 0, @s_w_id10 int = 0, @ol_qty10 smallint = 0,
    @i_id11 int = 0, @s_w_id11 int = 0, @ol_qty11 smallint = 0,
    @i_id12 int = 0, @s_w_id12 int = 0, @ol_qty12 smallint = 0,
    @i_id13 int = 0, @s_w_id13 int = 0, @ol_qty13 smallint = 0,
    @i_id14 int = 0, @s_w_id14 int = 0, @ol_qty14 smallint = 0,
    @i_id15 int = 0, @s_w_id15 int = 0, @ol_qty15 smallint = 0

as
begin
declare @o_id          int,
        @d_tax         smallmoney,
        @o_entry_d     datetime,
        @commit_flag   tinyint

begin transaction n

-- get district tax and next available order id and update
-- insert corresponding row into new-order table
-- plus initialize local variables

    update  district
    set     @d_tax          = d_tax,
            @o_id          = d_next_o_id,
            d_next_o_id   = d_next_o_id + 1,
            @o_entry_d     = getdate(),
            @commit_flag = 1

    output  deleted.d_next_o_id,@d_id,@w_id into new_order
    where   d_w_id         = @w_id and
            d_id          = @d_id

-- update stock from stock join (item join (params))
-- output to orderline, output to client
-- NOTE: @@rowcount != @ol_o_cnt
--       if (@i_idX,@s_w_idX pairs not unique) OR (@i_idX not unique).
update stock
    set     s_ytd          = s_ytd + info.ol_qty,
            s_quantity    = s_quantity - info.ol_qty +
                    case when (s_quantity - info.ol_qty < 10) then 91
else 0 end,
            s_order_cnt   = s_order_cnt + 1,
            s_remote_cnt  = s_remote_cnt +
                    case when (info.w_id = @w_id) then 0 else 1 end

output @o_id,@d_id,@w_id,info.lino,
       info.i_id,"dec 31, 1899",
       info.ol_qty,info.i_price * info.ol_qty,
       info.w_id,
       case @d_id when 1 then inserted.s_dist_01
              when 2 then inserted.s_dist_02

```

```

        when 3 then inserted.s_dist_03
        when 4 then inserted.s_dist_04
        when 5 then inserted.s_dist_05
        when 6 then inserted.s_dist_06
        when 7 then inserted.s_dist_07
        when 8 then inserted.s_dist_08
        when 9 then inserted.s_dist_09
        when 10 then inserted.s_dist_10
    end
into order_line

output info.i_name,inserted.s_quantity,
       case when ((charindex("ORIGINAL",info.i_data) > 0) and
                 (charindex("ORIGINAL",inserted.s_data) > 0)
)
       then "B" else "G" end,
       info.i_price,info.i_price*info.ol_qty

from
stock inner join

(select iid,wid,
      lino,ol_qty,
      i_price,
      i_name,
      i_data

from
      (select iid,wid,lino,qty,
            row_number() over (partition by iid,wid order by iid,wid)

from
      (select @i_id1,@s_w_id1,1,@ol_qty1 union all
      select @i_id2,@s_w_id2,2,@ol_qty2 union all
      select @i_id3,@s_w_id3,3,@ol_qty3 union all
      select @i_id4,@s_w_id4,4,@ol_qty4 union all
      select @i_id5,@s_w_id5,5,@ol_qty5 union all
      select @i_id6,@s_w_id6,6,@ol_qty6 union all
      select @i_id7,@s_w_id7,7,@ol_qty7 union all
      select @i_id8,@s_w_id8,8,@ol_qty8 union all
      select @i_id9,@s_w_id9,9,@ol_qty9 union all
      select @i_id10,@s_w_id10,10,@ol_qty10 union all
      select @i_id11,@s_w_id11,11,@ol_qty11 union all
      select @i_id12,@s_w_id12,12,@ol_qty12 union all
      select @i_id13,@s_w_id13,13,@ol_qty13 union all
      select @i_id14,@s_w_id14,14,@ol_qty14 union all
      select @i_id15,@s_w_id15,15,@ol_qty15) as
uol(iid,wid,lino,qty)
) as ol(iid,wid,lino,ol_qty,rownum)
inner join
      item (repeatableread) on i_id = iid -- filters out invalid items
      and rownum=1
) as info(i_id,w_id,lino,ol_qty,i_price,i_name,i_data)

on
      s_i_id      = info.i_id and
      s_w_id      = info.w_id

if (@@rowcount <> @o_ol_cnt) -- must have an invalid item
      select @commit_flag = 0 -- 2.4.2.3 requires rest to proceed

-- insert fresh row into orders table
insert into orders values ( @o_id,

```

```

        @d_id,
        @w_id,
        @c_id,
        0,
        @o_ol_cnt,
        @o_all_local,
        @o_entry_d)

-- get customer last name, discount, and credit rating
-- get warehouse tax
-- return order_data to client

      select w_tax,@d_tax,@o_id,
             c_last,c_discount,c_credit,
             @o_entry_d,@commit_flag

from
warehouse (repeatableread), customer (repeatableread)
where
      w_id      = @w_id and
      c_id      = @c_id and
      c_w_id    = @w_id and
      c_d_id    = @d_id

-- @@rowcount checks that previous select found a valid customer
if (@@commit_flag = 1) and (@@rowcount = 1)
      commit transaction n
else
      -- all that work for nothing.
      rollback transaction n

end
go

                                ORDSTAT.SQL

-----
--
-- File:      ORDSTAT.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
--
-- Creates order status stored procedure
--
-- Interface Level:      4.20.000
--
-----
SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_orderstatus' )
      DROP PROCEDURE tpcc_orderstatus
GO

CREATE PROCEDURE      tpcc_orderstatus

```

```

                @w_id      int,
                @d_id      tinyint,

                @c_id      int,
                @c_last    char(16) = ''

AS
DECLARE @c_balance    money,
        @c_first      char(16),
        @c_middle     char(2),
        @o_id         int,
        @o_entry_d    datetime,
        @o_carrier_id smallint,
        @cnt          smallint

BEGIN TRANSACTION o
IF (@c_id = 0)
BEGIN
-----
-- get customer id and info using last name
-----
SELECT @cnt = (count(*)+1)/2
FROM   customer WITH (repeatableread)
WHERE  c_last = @c_last AND
       c_w_id = @w_id AND
       c_d_id = @d_id

SET    rowcount @cnt

SELECT @c_id      = c_id,
       @c_balance = c_balance,
       @c_first   = c_first,
       @c_last    = c_last,
       @c_middle  = c_middle
FROM   customer WITH (repeatableread)
WHERE  c_last = @c_last AND
       c_w_id = @w_id AND
       c_d_id = @d_id
ORDER  BY c_w_id, c_d_id, c_last, c_first

SET rowcount 0
END
ELSE
BEGIN
-----
-- get customer info if by id
-----
SELECT @c_balance = c_balance,
       @c_first   = c_first,
       @c_middle  = c_middle,
       @c_last    = c_last
FROM   customer WITH (repeatableread)
WHERE  c_id = @c_id AND
       c_d_id = @d_id AND
       c_w_id = @w_id

SELECT @cnt = @@rowcount
END

-----
-- if no such customer

```

```

-----
IF (@cnt = 0)
BEGIN
    RAISERROR('Customer not found',18,1)
    GOTO custnotfound
END

-----
-- get order info
-----
SELECT @o_id      = o_id,
       @o_entry_d = o_entry_d,
       @o_carrier_id = o_carrier_id
FROM   orders WITH (serializable)
WHERE  o_c_id = @c_id AND
       o_d_id = @d_id AND
       o_w_id = @w_id
ORDER  BY o_id ASC

-----
-- select order lines for the current order
-----
SELECT ol_supply_w_id,
       ol_i_id,
       ol_quantity,
       ol_amount,
       ol_delivery_d
FROM   order_line WITH (repeatableread)
WHERE  ol_o_id = @o_id AND
       ol_d_id = @d_id AND
       ol_w_id = @w_id

custnotfound:

COMMIT TRANSACTION o

-----
-- return data to client
-----
SELECT @c_id,
       @c_last,
       @c_first,
       @c_middle,
       @o_entry_d,
       @o_carrier_id,
       @c_balance,
       @o_id
GO

-----
--
-- File:      PAYMENT.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
--
-- Creates payment stored procedure
-----

```

PAYMENT.SQL

```

--
--      Interface Level:      4.20.000
--
--
-----
SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_payment' )
    DROP PROCEDURE tpcc_payment
GO

CREATE PROCEDURE      tpcc_payment
    @w_id              int,
    @c_w_id            int,
    @h_amount          smallmoney,
    @d_id              tinyint,
    @c_d_id            tinyint,
    @c_id              int,
    @c_last            char(16) = ""

AS
DECLARE @w_street_1   char(20),
        @w_street_2   char(20),
        @w_city        char(20),
        @w_state        char(2),
        @w_zip          char(9),
        @w_name         char(10),
        @d_street_1    char(20),
        @d_street_2    char(20),
        @d_city         char(20),
        @d_state        char(2),
        @d_zip          char(9),
        @d_name         char(10),
        @c_first        char(16),
        @c_middle       char(2),
        @c_street_1    char(20),
        @c_street_2    char(20),
        @c_city         char(20),
        @c_state        char(2),
        @c_zip          char(9),
        @c_phone        char(16),
        @c_since        datetime,
        @c_credit       char(2),
        @c_credit_lim   money,
        @c_balance      money,
        @c_discount     smallmoney,
        @c_data         char(42),
        @datetime       datetime,
        @w_ytd          money,
        @d_ytd          money,
        @cnt            smallint,
        @val            smallint,
        @screen_data    char(200),
        @d_id_local     tinyint,
        @w_id_local     int,

```

```

    @c_id_local         int
SELECT  @screen_data   = ""

BEGIN TRANSACTION p
-- get payment date
SELECT  @datetime = GETDATE()

IF (@c_id = 0)
BEGIN
-- get customer id and info using last name
SELECT  @cnt        = COUNT(*)
FROM    customer WITH (repeatableread)
WHERE   c_last      = @c_last AND
        c_w_id      = @c_w_id AND
        c_d_id      = @c_d_id

SELECT  @val        = (@cnt + 1) / 2

SET     rowcount @val

SELECT  @c_id       = c_id
FROM    customer WITH (repeatableread)
WHERE   c_last      = @c_last AND
        c_w_id      = @c_w_id AND
        c_d_id      = @c_d_id

ORDER  BY c_last, c_first

SET     rowcount 0

END

-- get customer info and update balances
UPDATE  customer
SET     @c_balance   = c_balance      = c_balance - @h_amount,
        c_payment_cnt = c_payment_cnt + 1,
        c_ytd_payment = c_ytd_payment + @h_amount,
        @c_first     = c_first,
        @c_middle     = c_middle,
        @c_last       = c_last,
        @c_street_1   = c_street_1,
        @c_street_2   = c_street_2,
        @c_city        = c_city,
        @c_state       = c_state,
        @c_zip         = c_zip,
        @c_phone       = c_phone,
        @c_credit      = c_credit,
        @c_credit_lim = c_credit_lim,
        @c_discount    = c_discount,
        @c_since       = c_since,
        @c_id_local   = c_id

WHERE   c_id         = @c_id AND
        c_w_id       = @c_w_id AND
        c_d_id       = @c_d_id

-- if customer has bad credit get some more info
IF (@c_credit = "BC")
BEGIN
-- compute new info
SELECT  @c_data = convert(char(5),@c_id) +
              convert(char(4),@c_d_id) +

```



```

                convert(char(5),@c_w_id) +
                convert(char(4),@d_id) +
                convert(char(5),@w_id) +
                convert(char(19),@h_amount)

-- update customer info
UPDATE customer
SET      c_data          = @c_data + substring(c_data, 1, 458),
        @screen_data    = @c_data + substring(c_data, 1, 158)

WHERE    c_id            = @c_id AND
        c_w_id          = @c_w_id AND
        c_d_id          = @c_d_id
END

-- get district data and update year-to-date
UPDATE district
SET      d_ytd          = d_ytd + @h_amount,
        @d_street_1    = d_street_1,
        @d_street_2    = d_street_2,
        @d_city         = d_city,
        @d_state        = d_state,
        @d_zip          = d_zip,
        @d_name         = d_name,
        @d_id_local     = d_id

WHERE    d_w_id          = @w_id AND
        d_id            = @d_id

-- get warehouse data and update year-to-date
UPDATE warehouse
SET      w_ytd          = w_ytd + @h_amount,
        @w_street_1    = w_street_1,
        @w_street_2    = w_street_2,
        @w_city         = w_city,
        @w_state        = w_state,
        @w_zip          = w_zip,
        @w_name         = w_name,
        @w_id_local     = w_id

WHERE    w_id            = @w_id

-- create history record
INSERT INTO      history VALUES (@c_id_local,
                                @c_d_id,
                                @c_w_id,
                                @d_id_local,
                                @w_id_local,
                                @datetime,
                                @h_amount,
                                @w_name + ' ' + @d_name)

COMMIT TRANSACTION p

-- return data to client
SELECT  @c_id,
        @c_last,
        @datetime,
        @w_street_1,
        @w_street_2,
        @w_city,
        @w_state,
        @w_zip,

```

```

        @d_street_1,
        @d_street_2,
        @d_city,
        @d_state,
        @d_zip,
        @c_first,
        @c_middle,
        @c_street_1,
        @c_street_2,
        @c_city,
        @c_state,
        @c_zip,
        @c_phone,
        @c_since,
        @c_credit,
        @c_credit_lim,
        @c_discount,
        @c_balance,
        @screen_data

GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

```

STOCKLEV.SQL

```

-----
--
-- File:      STOCKLEV.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.62
--           Copyright Microsoft, 2005
--
--           Creates stock level stored procedure
--
--           Interface Level:      4.20.000
--
-----
SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_stocklevel' )
    DROP PROCEDURE tpcc_stocklevel
GO

CREATE PROCEDURE      tpcc_stocklevel
                    @w_id          int,
                    @d_id          tinyint,
                    @threshold    smallint

```

```

AS
DECLARE @o_id_low int,
        @o_id_high int

SELECT @o_id_low = (d_next_o_id - 20),
       @o_id_high = (d_next_o_id - 1)
FROM   district
WHERE  d_w_id = @w_id AND
       d_id = @d_id

SELECT COUNT(DISTINCT(s_i_id))
FROM   stock,
       order_line
WHERE  ol_w_id = @w_id AND
       ol_d_id = @d_id and
       ol_o_id BETWEEN @o_id_low AND
                    @o_id_high AND

       s_w_id = ol_w_id AND
       s_i_id = ol_i_id AND
       s_quantity < @threshold
OPTION (ORDER GROUP)
GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

```

VERSION.SQL

```

-----
-- File:      VERSION.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
--
-- Returns version level of TPC-C stored procs
--
-- 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.
--
-- Interface Level:      4.20.000
-----
USE tpcc
GO

IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_version' )
    DROP PROCEDURE tpcc_version
GO

```

```

CREATE PROCEDURE tpcc_version
AS
DECLARE @version char(8)

BEGIN
    SELECT @version = '4.20.000'

    SELECT @version AS 'Version'
END
GO

```

Loader Source

GETARGS.C

```

// File:      GETARGS.C
//           Microsoft TPC-C Kit Ver. 4.51
//           Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2003
// Purpose:   Source file for command line processing

// Includes
#include "tpcc.h"

//=====
// Function name: GetArgsLoader
//=====

void GetArgsLoader(int argc, char **argv, TPCC_LDR_ARGS *pargs)
{
    int i;
    char *ptr;

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

    /* init args struct with some useful values */
    pargs->server = SERVER;
    pargs->user = USER;
    pargs->password = PASSWORD;
    pargs->database = DATABASE;
    pargs->batch = BATCH;
    pargs->num_warehouses = UNDEF;
    pargs->tables_all = TRUE;
    pargs->table_item = FALSE;
    pargs->table_warehouse = FALSE;
}

```

```

pargs->table_customer      = FALSE;
pargs->table_orders        = FALSE;
pargs->loader_res_file     = LOADER_RES_FILE;
pargs->log_path            = LOADER_LOG_PATH;
pargs->pack_size           = DEFLDPACKSIZE;
pargs->starting_warehouse = DEF_STARTING_WAREHOUSE;
pargs->build_index         = BUILD_INDEX;
pargs->index_order         = INDEX_ORDER;
pargs->index_script_path   = INDEX_SCRIPT_PATH;
pargs->scale_down          = SCALE_DOWN;

```

```

/* check for zero command line args */

```

```

if ( argc == 1 )

```

```

    GetArgsLoaderUsage();

```

```

for ( i = 1; i < argc; ++i)

```

```

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

```

```

    ptr = argv[i];

```

```

    switch (ptr[1])
    {

```

```

        case '?':    /* Fall throught */
                    GetArgsLoaderUsage();
                    break;

```

```

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

```

```

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

```

```

        case 'S':
                    pargs->server = ptr+2;
                    break;

```

```

        case 'U':
                    pargs->user = ptr+2;
                    break;

```

```

        case 'b':
                    pargs->batch = atol(ptr+2);
                    break;

```

```

        case 'W':
                    pargs->num_warehouses = atol(ptr+2);
                    break;

```

```

        case 's':
                    pargs->starting_warehouse = atol(ptr+2);
                    break;

```

```

        case 't':

```

```

== 0)

```

```

TRUE;

```

```

0)

```

```

0)

```

```

{
    pargs->tables_all = FALSE;
    if (strcmp(ptr+2,"item") == 0)
        pargs->table_item = TRUE;
    else if (strcmp(ptr+2,"warehouse")
            pargs->table_warehouse =
            else if (strcmp(ptr+2,"customer") ==
            pargs->table_customer = TRUE;
            else if (strcmp(ptr+2,"orders") ==
            pargs->table_orders = TRUE;
            else
            {
                printf("\nUnrecognized command");
                GetArgsLoaderUsage();
                exit(1);
            }
            break;
        }

```

```

        case 'f':
            pargs->loader_res_file = ptr+2;
            break;

```

```

        case 'L':
            pargs->log_path = ptr+2;
            break;

```

```

        case 'p':
            pargs->pack_size = atol(ptr+2);
            break;

```

```

        case 'i':
            pargs->build_index = atol(ptr+2);
            break;

```

```

        case 'o':
            pargs->index_order = atol(ptr+2);
            break;

```

```

        case 'c':
            pargs->scale_down = atol(ptr+2);
            break;

```

```

        case 'd':
            pargs->index_script_path = ptr+2;
            break;

```

```

        default:
            GetArgsLoaderUsage();
            exit(-1);
            break;

```

```

    }

```

```

/* check for required args */

```

```

if (pargs->num_warehouses == UNDEF )

```

```

    {
        printf("Number of Warehouses is required\n");
        exit(-2);
    }
    return;
}

//=====
//
// Function name: GetArgsLoaderUsage
//
//=====

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

    printf("TPCCCLR:\n\n");
    printf("Parameter
Default\n");
    printf("-----\n");
    printf("-W Number of Warehouses to Load
\n");
    printf("-S Server
SERVER);
    printf("-U Username
USER);
    printf("-P Password
PASSWORD);
    printf("-D Database
DATABASE);
    printf("-b Batch Size
%ld\n", (long) BATCH);
    printf("-p TDS packet size
%ld\n", (long) DEF_LD_PACKET_SIZE);
    printf("-L Loader BCP Log Path
%s\n", LOADER_LOG_PATH);
    printf("-f Loader Results Output Filename
%s\n", LOADER_RES_FILE);
    printf("-s Starting Warehouse
%ld\n", (long) DEF_STARTING_WAREHOUSE);
    printf("-i Build Option (data = 0, data and index = 1)
%ld\n", (long) BUILD_INDEX);
    printf("-o Cluster Index Build Order (before = 1, after = 0)
%ld\n", (long) INDEX_ORDER);
    printf("-c Build Scaled Database (normal = 0, tiny = 1)
%ld\n", (long) SCALE_DOWN);
    printf("-d Index Script Path
%s\n", INDEX_SCRIPT_PATH);
    printf("-t Table to Load
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);
}

```

RANDOM.C

```

// File: RANDOM.C
// Microsoft TPC-C Kit Ver. 4.62
// Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2005
// Purpose: Random number generation routines for database
loader

// Includes
#include "tpcc.h"
#include "math.h"

// Defines
#define A 16807
#define M 2147483647
#define Q 127773 /* M div A */
#define R 2836 /* M mod A */
#define Thread __declspec(thread)

// Globals
long Thread Seed = 0; /* thread local seed */

/*****
*
*
* random -
*
* Implements a GOOD pseudo random number generator. This generator
*
* will/should? run the complete period before repeating.
*
*
* Copied from:
*
* Random Numbers Generators: Good Ones Are Hard to Find.
*
*/

```

```

*      Communications of the ACM - October 1988 Volume 31 Number 10
*
*
*
* Machine Dependencies:
*
*      long must be 2 ^ 31 - 1 or greater.
*
*
*
*****
/*****
* seed - load the Seed value used in irand and drand.  Should be used
before *
*      first call to irand or drand.
*
*****
*****/

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

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

    Seed = val;
}

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

```

```

* side effects:
*
*      seed get recomputed.
*
*****
*****/

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

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

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

    test = A * lo - R * hi;
    if ( test > 0 )
        Seed = test;
    else
        Seed = test + M;

    return( Seed );
}

/*****
*****/
*
*
* drand - returns a double pseudo random number between 0.0 and 1.0.
*
*      See irand.
*
*****
*****/
double drand()
{
#ifdef DEBUG
    printf("[%ld]DBG: Entering drand()...\n", (int) GetCurrentThreadId());
#endif

    return( (double)irand() / 2147483647.0);
}

//=====
// Function      : RandomNumber
//
// Description:
//=====
long RandomNumber(long lower, long upper)
{
    long rand_num;

```

```

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

    if ( upper == lower ) /* pgd 08-13-96 perf enhancement */
        return lower;

    upper++;

    if ( upper <= lower )
        rand_num = upper;
    else
        rand_num = lower + irand() % (upper - lower); /* pgd 08-13-
96 perf enhancement */

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

    return rand_num;
}

#if 0
//Original code pgd 08/13/96

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

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

    upper++;

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

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

    return rand_num;
}

```

```

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

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

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

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

    return rand_num;
}

```

STRINGS.C

```

// File: STRINGS.C
// Microsoft TPC-C Kit Ver. 4.51
// Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2003
// Purpose: Source file for database loader string functions

// Includes
#include "tpcc.h"
#include <string.h>
#include <ctype.h>

//=====
//
// Function name: MakeAddress
//
//=====

void MakeAddress(char *street_1,
                char *street_2,
                char *city,
                char *state,
                char *zip)
{

```

```

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

    MakeAlphaString (10, 20, ADDRESS_LEN, street_1);
    MakeAlphaString (10, 20, ADDRESS_LEN, street_2);
    MakeAlphaString (10, 20, ADDRESS_LEN, city);
    MakeAlphaString ( 2,  2, STATE_LEN, state);
    MakeZipNumberString( 9,  9, ZIP_LEN, zip);

#ifdef DEBUG
    printf("[%ld]DBG: MakeAddress: street_1: %s, street_2: %s, city: %s,
state: %s, zip: %s\n",
        (int) GetCurrentThreadId(), street_1, street_2,
city, state, zip);
#endif

    return;

}

//=====
//
// Function name: LastName
//
//=====
void LastName(int num,
              char *name)
{
    static char *n[] =
    {
        "BAR" , "OUGHT" , "ABLE" , "PRI" , "PRES",
        "ESE" , "ANTI" , "CALLY" , "ATION" , "EING"
    };

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

    if ((num >= 0) && (num < 1000))
    {
        strcpy(name, n[(num/100)%10]);
        strcat(name, n[(num/10)%10]);
        strcat(name, n[(num/1)%10]);

        if (strlen(name) < LAST_NAME_LEN)
        {
            PaddString(LAST_NAME_LEN, name);
        }
    }
    else
    {
        printf("\nError in LastName()... num <%ld> out of range
(0,999)\n", num);
        exit(-1);
    }
}

```

```

#ifdef DEBUG
    printf("[%ld]DBG: LastName: num = [%d] ==> [%d][%d][%d]\n",
        (int) GetCurrentThreadId(), num, num/100,
(num/10)%10, num%10);
    printf("[%ld]DBG: LastName: String = %s\n", (int)
GetCurrentThreadId(), name);
#endif

    return;

}

//=====
//
// Function name: MakeAlphaString
//
//=====

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

int MakeAlphaString( int x, int y, int z, char *str)
{
    int len;
    int i;
    char cc = 'a';
    static char chArray[] =
"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
    static int chArrayMax = 61;

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

    len= RandomNumber(x, y);

    for (i=0; i<len; i++)
        str[i] = chArray[RandomNumber(0, chArrayMax)];
    str[len] = 0;

    return len;
}

```

```

int MakeAlphaStringPadded( int  minLen, int  maxLen, int  padLen, char
*str)
{
    int          len;
    int          i;
    char         cc = 'a';
    static char  chArray[] =
"0123456789ABCDEFGHIJKLMNPOQRSTUVWXYZabcdefghijklmnopqrstuvwxy";
    static int   chArrayMax = 61;

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

    len= RandomNumber(minLen, maxLen);

    for (i=0; i<len; i++)
        str[i] = chArray[RandomNumber(0,chArrayMax)];
    if (len < padLen)
        memset(str+len, ' ', padLen - len);
    str[padLen] = 0;
    return padLen;
}

//=====
//
// Function name: MakeOriginalAlphaString
//
//=====
int MakeOriginalAlphaString(int  x,
                           int  y,
                           int  z,
                           char *str,
                           int  percent)
{
    int  len;
    int  val;
    int  start;

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

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

    // verify string is at least 8 chars in length
    if (x < 8)
    {
        printf("MakeOriginalAlphaString: string length must be >=
8\n");

```

```

        exit(-1);
    }

    // Make Alpha String
    len = MakeAlphaString(x,y, z, str);

    val = RandomNumber(1,100);
    if (val <= percent)
    {
        start = RandomNumber(0, len - 8);
        strncpy(str + start, "ORIGINAL", 8);
    }

#ifdef DEBUG
    printf("[%ld]DBG: MakeOriginalAlphaString: : %s\n",
(int) GetCurrentThreadId(), str);
#endif

    return len;
}

//=====
//
// Function name: MakeNumberString
//
//=====
int MakeNumberString(int  x, int  y, int  z, char *str)
{
    char tmp[16];

    //MakeNumberString is always called MakeZipNumberString(16, 16,
16, string)

    memset(str, '0', 16);
    itoa(RandomNumber(0, 99999999), tmp, 10);
    memcpy(str, tmp, strlen(tmp));

    itoa(RandomNumber(0, 99999999), tmp, 10);
    memcpy(str+8, tmp, strlen(tmp));

    str[16] = 0;

    return 16;
}

//=====
//
// Function name: MakeZipNumberString
//
//=====
int MakeZipNumberString(int  x, int  y, int  z, char *str)
{
    char tmp[16];

    //MakeZipNumberString is always called MakeZipNumberString(9, 9,
9, string)

    strcpy(str, "000011111");

```



```

        itoa(RandomNumber(0, 9999), tmp, 10);
        memcpy(str, tmp, strlen(tmp));
    }
    return 9;
}

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

    memset(str, ' ', len);
    str[len] = 0;
}

//=====
// Function name: InitAddress
//
// Description:
//
//=====
void InitAddress(char *street_1, char *street_2, char *city, char *state,
char *zip)
{
    memset(street_1, ' ', ADDRESS_LEN+1);
    memset(street_2, ' ', ADDRESS_LEN+1);
    memset(city, ' ', ADDRESS_LEN+1);

    street_1[ADDRESS_LEN+1] = 0;
    street_2[ADDRESS_LEN+1] = 0;
    city[ADDRESS_LEN+1] = 0;

    memset(state, ' ', STATE_LEN+1);
    state[STATE_LEN+1] = 0;

    memset(zip, ' ', ZIP_LEN+1);
    zip[ZIP_LEN+1] = 0;
}

//=====
//
// Function name: PaddString
//
//=====
void PaddString(int max, char *name)
{
    int        len;

```

```

len = strlen(name);
if ( len < max )
    memset(name+len, ' ', max - len);
name[max] = 0;

return;
}

```

TIME.C

```

// File:          TIME.C
//               Microsoft TPC-C Kit Ver. 4.62
//               Copyright Microsoft, 1996, 1997, 1998, 1999,
//               2000, 2001, 2002, 2005
// Purpose:       Source file for time functions

// Includes
#include "tpcc.h"

// Globals
static long start_sec;

//=====
//
// Function name: TimeNow
//
//=====

long TimeNow()
{
    long        time_now;
    struct      _timeb el_time;

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

    _ftime(&el_time);

    time_now = ((el_time.time - start_sec) * 1000) + el_time.millitm;

    return time_now;
}

```

TPCC.H

```

// File:          TPCC.H
//               Microsoft TPC-C Kit Ver. 4.51
//               Copyright Microsoft, 1996, 1997, 1998, 1999,
//               2000, 2001, 2002, 2003, 2005
// Purpose:       Header file for TPC-C database loader

```

```

// Build number of TPC Benchmark Kit
#define TPCKIT_VER    "4.51"

// General headers
#include <windows.h>
#include <winbase.h>
#include <stdlib.h>
#include <stdio.h>
#include <process.h>
#include <stddef.h>
#include <stdarg.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <sys\types.h>
#include <math.h>

// ODBC headers
#include <sql.h>
#include <sqlext.h>
#include <odbcss.h>

// General constants
#define MILLI          1000
#define FALSE          0
#define TRUE           1
#define UNDEF          -1
#define MINPRINTASCII 32
#define MAXPRINTASCII 126

// Default environment constants
#define SERVER          ""
#define DATABASE        "tpcc"
#define USER            "sa"
#define PASSWORD        ""

// Default loader arguments
#define BATCH           10000
#define DEFLDPACKSIZE  32768
#define LOADER_RES_FILE "C:\\MSTPCC.450\\SETUP\\LOGS\\load.out"
#define LOADER_LOG_PATH "C:\\MSTPCC.450\\SETUP\\LOGS\\"
#define LOADER_NURAND_C 123
#define DEF_STARTING_WAREHOUSE 1
#define BUILD_INDEX     1 // build both
data and indexes
#define INDEX_ORDER     1 // build
indexes before load
#define SCALE_DOWN      0 // build a normal
scale database
#define INDEX_SCRIPT_PATH "scripts"

typedef struct
{
    char *server;
    char *database;
    char *user;
    char *password;

```

```

        BOOL tables_all; // set
    if loading all tables
        BOOL table_item; // set
    if loading ITEM table specifically
        BOOL table_warehouse; // set if
loading WAREHOUSE, DISTRICT, and STOCK
        BOOL table_customer; // set
    if loading CUSTOMER and HISTORY
        BOOL table_orders; // set if
loading NEW-ORDER, ORDERS, ORDER-LINE
        long num_warehouses;
        long batch;
        long verbose;
        long pack_size;
        char *loader_res_file;
        char *log_path;
        char *synch_servername;
        long case_sensitivity;
        long starting_warehouse;
        long build_index;
        long index_order;
        long scale_down;
        char *index_script_path;
} TPCCLDR_ARGS;

// String length constants
#define SERVER_NAME_LEN 20
#define DATABASE_NAME_LEN 20
#define USER_NAME_LEN 20
#define PASSWORD_LEN 20
#define TABLE_NAME_LEN 20
#define I_DATA_LEN 50
#define I_NAME_LEN 24
#define BRAND_LEN 1
#define LAST_NAME_LEN 16
#define W_NAME_LEN 10
#define ADDRESS_LEN 20
#define STATE_LEN 2
#define ZIP_LEN 9
#define S_DIST_LEN 24
#define S_DATA_LEN 50
#define D_NAME_LEN 10
#define FIRST_NAME_LEN 16
#define MIDDLE_NAME_LEN 2
#define PHONE_LEN 16
#define CREDIT_LEN 2
#define C_DATA_LEN 500
#define H_DATA_LEN 24
#define DIST_INFO_LEN 24
#define MAX_OL_NEW_ORDER_ITEMS 15
#define MAX_OL_ORDER_STATUS_ITEMS 15
#define STATUS_LEN 25
#define OL_DIST_INFO_LEN 24
#define C_SINCE_LEN 23
#define H_DATE_LEN 23
#define OL_DELIVERY_D_LEN 23
#define O_ENTRY_D_LEN 23

// Functions in random.c
void seed();

```

```

long   irand();
double drand();
void   WUCreate();
short  WURand();
long   RandomNumber(long lower, long upper);

// Functions in getargs.c;
void   GetArgsLoader();
void   GetArgsLoaderUsage();

// Functions in time.c
long   TimeNow();

// Functions in strings.c
void   MakeAddress();
void   LastName();
int    MakeAlphaString();
int    MakeAlphaStringPadded();
int    MakeOriginalAlphaString();
int    MakeNumberString();
int    MakeZipNumberString();
void   InitString();
void   InitAddress();
void   PaddString();

```

TPCCLDR.C

```

//=====
//   File:          TPCCLDR.C
//               Microsoft TPC-C Kit Ver. 4.51
//               Copyright Microsoft, 1996, 1997, 1998, 1999,
//               2000, 2001, 2002, 2003
//   Purpose:      Source file for TPC-C database loader
//=====
// Includes
#include "tpcc.h"
#include "search.h"

// Defines
#define MAXITEMS          100000
#define MAXITEMS_SCALE_DOWN 100
#define CUSTOMERS_PER_DISTRICT 3000
#define CUSTOMERS_SCALE_DOWN 30
#define DISTRICT_PER_WAREHOUSE 10
#define ORDERS_PER_DISTRICT 3000
#define ORDERS_SCALE_DOWN 30
#define MAX_CUSTOMER_THREADS 2
#define MAX_ORDER_THREADS 3
#define MAX_MAIN_THREADS 4
#define MAX_SQL_ERRORS 10

// Functions declarations
void HandleErrorDBC (SQLHDBC hdbc1);
long  NURand();
void  LoadItem();
void  LoadWarehouse();
void  Stock();

```

```

void District();
void LoadCustomer();
void CustomerBufInit();
void CustomerBufLoad();
void LoadCustomerTable();
void LoadHistoryTable();
void LoadOrders();
void OrdersBufInit();
void OrdersBufLoad();
void LoadOrdersTable();
void LoadNewOrderTable();
void LoadOrderLineTable();
void GetPermutation();
void CheckForCommit();
void CheckForCommit_Big();
void OpenConnections();
void BuildIndex();
void FormatDate ();

// Shared memory structures
typedef struct
{
    double          ol_i_id;          ol;
    long            ol_i_id;          ol_supply_w_id;
    long            ol_quantity;
    double          ol_amount;
    char            ol_dist_info[DIST_INFO_LEN+1];
    char            ol_delivery_d[OL_DELIVERY_D_LEN+1];
} ORDER_LINE_STRUCT;

typedef struct
{
    long            o_id;
    short          o_d_id;
    long            o_w_id;
    long            o_c_id;
    short          o_carrier_id;
    short          o_ol_cnt;
    short          o_all_local;
    ORDER_LINE_STRUCT o_ol[15];
} ORDERS_STRUCT;

typedef struct
{
    long            c_id;
    short          c_d_id;
    long            c_w_id;
    char            c_first[FIRST_NAME_LEN+1];
    char            c_middle[MIDDLE_NAME_LEN+1];
    char            c_last[LAST_NAME_LEN+1];
    char            c_street_1[ADDRESS_LEN+1];
    char            c_street_2[ADDRESS_LEN+1];
    char            c_city[ADDRESS_LEN+1];
    char            c_state[STATE_LEN+1];
    char            c_zip[ZIP_LEN+1];
    char            c_phone[PHONE_LEN+1];
    char            c_credit[CREDIT_LEN+1];
    double          c_credit_lim;
    double          c_discount;
    char            c_balance[6];
}

```

```

double          c_ytd_payment;
short          c_payment_cnt;
short          c_delivery_cnt;
char           c_data[C_DATA_LEN+1];
double        h_amount;
char          h_data[H_DATA_LEN+1];
} CUSTOMER_STRUCT;

typedef struct
{
    char          c_last[LAST_NAME_LEN+1];
    char          c_first[FIRST_NAME_LEN+1];
    long         c_id;
} CUSTOMER_SORT_STRUCT;

typedef struct
{
    long         time_start;
} LOADER_TIME_STRUCT;

// Global variables
char  szLastError[300];

HENV  henv;

HDBC  v_hdbc;           // for SQL Server
version verification
HDBC  i_hdbc1;         // for ITEM table
HDBC  w_hdbc1;         // for WAREHOUSE,
DISTRICT, STOCK
HDBC  c_hdbc1;         // for CUSTOMER
HDBC  c_hdbc2;         // for HISTORY
HDBC  o_hdbc1;         // for ORDERS
HDBC  o_hdbc2;         // for NEW-ORDER

HDBC  o_hdbc3;         // for ORDER-LINE

HSTMT v_hstmt;        // for SQL Server
version verification
HSTMT i_hstmt1;
HSTMT w_hstmt1;
HSTMT c_hstmt1, c_hstmt2;
HSTMT o_hstmt1, o_hstmt2, o_hstmt3;

int          total_db_errors;

ORDERS_STRUCT orders_buf[ORDERS_PER_DISTRICT];
CUSTOMER_STRUCT customer_buf[CUSTOMERS_PER_DISTRICT];
long          orders_rows_loaded;
double       new_order_rows_loaded;
double       order_line_rows_loaded;
long         history_rows_loaded;
long         customer_rows_loaded;
double       stock_rows_loaded;
long         district_rows_loaded;
long         item_rows_loaded;
long         warehouse_rows_loaded;
long         main_time_start;
long         main_time_end;
long         max_items;

```

```

long          customers_per_district;
long         orders_per_district;
long         first_new_order;
long         last_new_order;

TPCCCLR_ARGS *aptr, argv;

//=====
//
// 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 = &argv;
GetArgsLoader(argc, argv, aptr);

printf("Build interface is ODBC.\n");

if (aptr->build_index == 0)
    printf("Data load only - no index creation.\n");
else
    printf("Data load and index creation.\n");

if (aptr->index_order == 0)
    printf("Clustered indexes will be created after bulk
load.\n");
else
    printf("Clustered indexes will be created before bulk
load.\n");

// set database scale values
if (aptr->scale_down == 1)
{
    printf("*** Scaled Down Database ***\n");
    max_items = MAXITEMS_SCALE_DOWN;
    customers_per_district = CUSTOMERS_SCALE_DOWN;
    orders_per_district = ORDERS_SCALE_DOWN;
    first_new_order = 0;
}

```

```

        last_new_order = 30;
    }
    else
    {
        max_items = MAXITEMS;
        customers_per_district = CUSTOMERS_PER_DISTRICT;
        orders_per_district = ORDERS_PER_DISTRICT;
        first_new_order = 2100;
        last_new_order = 3000;
    }

    // open connections to SQL Server
    OpenConnections();

    // open file for loader results
    fLoader = fopen(aptr->loader_res_file, "w");

    if (fLoader == NULL)
    {
        printf("Error, loader result file open failed.");
        exit(-1);
    }

    // start loading data
    sprintf(buffer, "TPC-C load started for %ld warehouses.\n", aptr-
>num_warehouses);
    if (aptr->scale_down == 1)
    {
        sprintf(buffer, "SCALED DOWN DATABASE.\n");
    }

    printf("%s", buffer);
    fprintf(fLoader, "%s", buffer);

    main_time_start = (TimeNow() / MILLI);

    // start parallel load threads
    if (aptr->tables_all || aptr->table_item)
    {
        fprintf(fLoader, "\nStarting loader threads for: item\n");

        hThread[0] = CreateThread(NULL,
                                0,
                                (LPTHREAD_START_ROUTINE) LoadItem,
                                NULL,
                                0,
                                &dwThreadID[0]);

        if (hThread[0] == NULL)
        {
            printf("Error, failed in creating creating thread =
0.\n");
            exit(-1);
        }
    }

    if (aptr->tables_all || aptr->table_warehouse)

```

```

        fprintf(fLoader, "Starting loader threads for:
warehouse\n");

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

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

        if (aptr->tables_all || aptr->table_customer)
        {
            fprintf(fLoader, "Starting loader threads for:
customer\n");

            hThread[2] = CreateThread(NULL,
                                    0,
                                    (LPTHREAD_START_ROUTINE) LoadCustomer,
                                    NULL,
                                    0,
                                    &dwThreadID[2]);

            if (hThread[2] == NULL)
            {
                printf("Error, failed in creating creating main
thread = 2.\n");
                exit(-1);
            }

            if (aptr->tables_all || aptr->table_orders)
            {
                fprintf(fLoader, "Starting loader threads for: orders\n");

                hThread[3] = CreateThread(NULL,
                                        0,
                                        (LPTHREAD_START_ROUTINE) LoadOrders,
                                        NULL,
                                        0,
                                        &dwThreadID[3]);

                if (hThread[3] == NULL)
                {
                    printf("Error, failed in creating creating main
thread = 3.\n");
                    exit(-1);
                }
            }
        }
    }

```

```

}
// Wait for threads to finish...
for (i=0; i<MAX_MAIN_THREADS; i++)
{
    if (hThread[i] != NULL)
    {
        WaitForSingleObject( hThread[i], INFINITE );
        CloseHandle(hThread[i]);
        hThread[i] = NULL;
    }
}

main_time_end = (TimeNow() / MILLI);

sprintf(buffer, "\nTPC-C load completed successfully in %ld
minutes.\n",
        (main_time_end - main_time_start)/60);

printf("%s",buffer);
fprintf(fLoader, "%s", buffer);

fclose(fLoader);

SQLFreeEnv(henv);

exit(0);

return 0;
}

//=====
//
// Function name: LoadItem
//
//=====
void LoadItem()
{
    int            i;
    long           i_id;
    long           i_im_id;
    char           i_name[I_NAME_LEN+1];
    double         i_price;
    char           i_data[I_DATA_LEN+1];
    char           name[20];
    long           time_start;
    RETCODE        rc;
    DBINT          rcint;
    char           bcphint[128];
    char           err_log_path[256];

    // Seed with unique number
    seed(11);

    printf("Loading item table...\n");

    //if build index before load
    if ((aptr->build_index == 1) && (aptr->index_order == 1))
        BuildIndex("idxitmcl");

```

```

InitString(i_name, I_NAME_LEN+1);
InitString(i_data, I_DATA_LEN+1);

sprintf(name, "%s..%s", aptr->database, "item");

strcpy(err_log_path, aptr->log_path);
strcat(err_log_path, "item.err");
rc = bcp_init(i_hdbc1, name, NULL, err_log_path, DB_IN);
if (rc != SUCCEED)
    HandleErrorDBC(i_hdbc1);

if ((aptr->build_index == 1) && (aptr->index_order == 1))
{
    sprintf(bcphint, "tablock, order (i_id), ROWS_PER_BATCH =
100000");
    rc = bcp_control(i_hdbc1, BCPHINTS, (void*) bcphint);
    if (rc != SUCCEED)
        HandleErrorDBC(i_hdbc1);
}

i = 0;
rc = bcp_bind(i_hdbc1, (BYTE *) &i_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(i_hdbc1);
rc = bcp_bind(i_hdbc1, (BYTE *) i_name, 0, I_NAME_LEN, NULL, 0, 0,
++i);
if (rc != SUCCEED)
    HandleErrorDBC(i_hdbc1);
rc = bcp_bind(i_hdbc1, (BYTE *) &i_price, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(i_hdbc1);
rc = bcp_bind(i_hdbc1, (BYTE *) i_data, 0, SQL_VARLEN_DATA, "", 1,
0, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(i_hdbc1);
rc = bcp_bind(i_hdbc1, (BYTE *) &i_im_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT4, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(i_hdbc1);

time_start = (TimeNow() / MILLI);

item_rows_loaded = 0;

for (i_id = 1; i_id <= max_items; i_id++)
{
    i_im_id = RandomNumber(1L, 10000L);

    MakeAlphaStringPadded(14, 24, I_NAME_LEN, i_name);

    i_price = ((float) RandomNumber(100L, 10000L))/100.0;

    MakeOriginalAlphaString(26, 50, I_DATA_LEN, i_data, 10);

    rc = bcp_sendrow(i_hdbc1);
    if (rc != SUCCEED)
        HandleErrorDBC(i_hdbc1);

    item_rows_loaded++;
}

```

```

        CheckForCommit(i_hdbc1, i_hstmt1, item_rows_loaded, "item",
&time_start);
    }

    rcint = bcp_done(i_hdbc1);
    if (rcint < 0)
        HandleErrorDBC(i_hdbc1);

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

    SQLFreeStmt(i_hstmt1, SQL_DROP);
    SQLDisconnect(i_hdbc1);
    SQLFreeConnect(i_hdbc1);

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

//=====
//
// Function   : LoadWarehouse
//
// Loads WAREHOUSE table and loads Stock and District as Warehouses are
// created
//
//=====
void LoadWarehouse()
{
    int         i;
    long        w_id;
    char        w_name[W_NAME_LEN+1];
    char        w_street_1[ADDRESS_LEN+1];
    char        w_street_2[ADDRESS_LEN+1];
    char        w_city[ADDRESS_LEN+1];
    char        w_state[STATE_LEN+1];
    char        w_zip[ZIP_LEN+1];
    double      w_tax;
    double      w_ytd;
    char        name[20];
    long        time_start;
    RETCODE rc;
    DBINT       rcint;
    char        bcphint[128];
    char        err_log_path[256];

    // Seed with unique number
    seed(2);

    printf("Loading warehouse table...\n");

    // if build index before load...
    if ((aptr->build_index == 1) && (aptr->index_order == 1))
        BuildIndex("idxwarcl");

    InitString(w_name, W_NAME_LEN+1);
    InitAddress(w_street_1, w_street_2, w_city, w_state, w_zip);

```

```

    sprintf(name, "%s..%s", aptr->database, "warehouse");

    strcpy(err_log_path, aptr->log_path);
    strcat(err_log_path, "warehouse.err");
    rc = bcp_init(w_hdbc1, name, NULL, err_log_path, DB_IN);

    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcphint, "tablock, order (w_id), ROWS_PER_BATCH =
%d", aptr->num_warehouses);
        rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcphint);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);
    }

    i = 0;
    rc = bcp_bind(w_hdbc1, (BYTE *) &w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &w_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &w_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_name, 0, W_NAME_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_street_1, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_street_2, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_city, 0, ADDRESS_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_state, 0, STATE_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_zip, 0, ZIP_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    time_start = (TimeNow() / MILLI);

    warehouse_rows_loaded = 0;

```

```

    for (w_id = (long)aptr->starting_warehouse; w_id <= aptr-
>num_warehouses; w_id++)
    {
        MakeAlphaStringPadded(6,10, W_NAME_LEN, w_name);

        MakeAddress(w_street_1, w_street_2, w_city, w_state,
w_zip);

        w_tax = ((float) RandomNumber(0L,2000L))/10000.00;

        w_ytd = 300000.00;

        rc = bcp_sendrow(w_hdbc1);
        if (rc != 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()
{
    int         i;
    short      d_id;
    long       d_w_id;
    char       d_name[D_NAME_LEN+1];
    char       d_street_1[ADDRESS_LEN+1];
    char       d_street_2[ADDRESS_LEN+1];
    char       d_city[ADDRESS_LEN+1];
    char       d_state[STATE_LEN+1];
    char       d_zip[ZIP_LEN+1];
    double     d_tax;
    double     d_ytd;
    char       name[20];
    long       d_next_o_id;
    long       time_start;
    long       w_id;
    RETCODE rc;

```

```

DBINT  rcint;
char   bcphint[128];
char   err_log_path[256];

// Seed with unique number
seed(4);

printf("Loading district table...\n");

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

InitString(d_name, D_NAME_LEN+1);
InitAddress(d_street_1, d_street_2, d_city, d_state, d_zip);
sprintf(name, "%s..%s", aptr->database, "district");

strcpy(err_log_path, aptr->log_path);
strcat(err_log_path, "district.err");
rc = bcp_init(w_hdbc1, name, NULL, err_log_path, DB_IN);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

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

    i = 0;
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_next_o_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_name, 0, D_NAME_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_street_1, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

```



```

    rc = bcp_bind(w_hdbc1, (BYTE *) d_street_2, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_city, 0, ADDRESS_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_state, 0, STATE_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_zip, 0, ZIP_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    d_ytd = 30000.0;

    d_next_o_id = orders_per_district+1;

    time_start = (TimeNow() / MILLI);

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

        for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
        {
            MakeAlphaStringPadded(6,10,D_NAME_LEN, d_name);

            MakeAddress(d_street_1, d_street_2, d_city,
d_state, d_zip);

            d_tax = ((float) RandomNumber(0L,2000L))/10000.00;

            rc = bcp_sendrow(w_hdbc1);
            if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);

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

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

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

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

    }

    return;
}
//=====

```

```

//
// Function : Stock
//
//=====
void Stock()
{
    int i;
    long s_i_id;
    long s_w_id;
    short s_quantity;
    char s_dist_01[S_DIST_LEN+1];
    char s_dist_02[S_DIST_LEN+1];
    char s_dist_03[S_DIST_LEN+1];
    char s_dist_04[S_DIST_LEN+1];
    char s_dist_05[S_DIST_LEN+1];
    char s_dist_06[S_DIST_LEN+1];
    char s_dist_07[S_DIST_LEN+1];
    char s_dist_08[S_DIST_LEN+1];
    char s_dist_09[S_DIST_LEN+1];
    char s_dist_10[S_DIST_LEN+1];
    long s_ytd;
    short s_order_cnt;
    short s_remote_cnt;
    char s_data[S_DATA_LEN+1];
    short len;
    char name[20];
    long time_start;
    RETCODE rc;
    DBINT rcint;
    char bcphint[128];
    char err_log_path[256];

    // Seed with unique number
    seed(3);

    // if build index before load...
    if ((aptr->build_index == 1) && (aptr->index_order == 1))
        BuildIndex("idxstkcl");

    sprintf(name, "%s..%s", aptr->database, "stock");

    strcpy(err_log_path, aptr->log_path);
    strcat(err_log_path, "stock.err");
    rc = bcp_init(w_hdbc1, name, NULL, err_log_path, DB_IN);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcphint, "tablock, order (s_i_id, s_w_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 10000));
        rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcphint);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);
    }

    i = 0;
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_i_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
}

```

```

    rc = bcp_bind(w_hdbc1, (BYTE *) &s_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_quantity, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_order_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_remote_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_data, 0, SQL_VARLEN_DATA, "", 1,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_01, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_02, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_03, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_04, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_05, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_06, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_07, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_08, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_09, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

```

```

    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_10, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    s_ytd = s_order_cnt = s_remote_cnt = 0;

    time_start = (TimeNow() / MILLI);

    printf("...Loading stock table\n");

    for (s_i_id=1; s_i_id <= max_items; s_i_id++)
    {
        for (s_w_id = (long)aptr->starting_warehouse; s_w_id <=
aptr->num_warehouses; s_w_id++)
        {
            s_quantity = (short)RandomNumber(10L,100L);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_01);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_02);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_03);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_04);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_05);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_06);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_07);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_08);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_09);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_10);

            len = MakeOriginalAlphaString(26,50, S_DATA_LEN,
s_data,10);

            rc = bcp_sendrow(w_hdbc1);
            if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);

            stock_rows_loaded++;
            CheckForCommit_Big(w_hdbc1, w_hstmt1,
stock_rows_loaded, "stock", &time_start);
        }
    }

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

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

    SQLFreeStmt(w_hstmt1, SQL_DROP);
    SQLDisconnect(w_hdbc1);
    SQLFreeConnect(w_hdbc1);

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

    return;
}
//=====

```

```

//
// Function   : LoadCustomer
//
//=====
void LoadCustomer()
{
    LOADER_TIME_STRUCT    customer_time_start;
    LOADER_TIME_STRUCT    history_time_start;
    long                  w_id;
    short                 d_id;
    DWORD                 dwThreadID[MAX_CUSTOMER_THREADS];
    HANDLE                 hThread[MAX_CUSTOMER_THREADS];
    char                   name[20];
    RETCODE                rc;
    DBINT                  rcint;
    char                   bcphint[128];
    char                   cmd[256];
    int                    num_procs;
    char                   err_log_path_cust[256];
    char                   err_log_path_hist[256];

    // Seed with unique number
    seed(5);

    printf("Loading customer and history tables...\n");

    // if build index before load...
    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        BuildIndex("idxcuscl");
        // check the number of processors on this system
        // if 8 or more processors, then build index on History.
        // if less than 8 processors, do not build the index
        num_procs = atoi(getenv( "NUMBER_OF_PROCESSORS" ));
        if ( num_procs >= 8 )
            BuildIndex("idxhiscl");
    }

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

    strcpy(err_log_path_cust, aptr->log_path);
    strcat(err_log_path_cust, "customer.err");
    rc = bcp_init(c_hdbc1, name, NULL, err_log_path_cust, DB_IN);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcphint, "tablock, order (c_w_id, c_d_id, c_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 30000));
        rc = bcp_control(c_hdbc1, BCPHINTS, (void*) bcphint);
        if (rc != SUCCEED)
            HandleErrorDBC(c_hdbc1);
    }

    sprintf(name, "%s..%s", aptr->database, "history");

    rc = bcp_init(c_hdbc2, name, NULL, "logs\\history.err", DB_IN);
    strcpy(err_log_path_hist, aptr->log_path);
    strcat(err_log_path_hist, "history.err");

```

```

rc = bcp_init(c_hdbc2, name, NULL, err_log_path_hist, DB_IN);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc2);

sprintf(bcphint, "tablock");
rc = bcp_control(c_hdbc2, BCPHINTS, (void*) bcphint);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc2);

customer_rows_loaded = 0;
history_rows_loaded = 0;

CustomerBufInit();

customer_time_start.time_start = (TimeNow() / MILLI);
history_time_start.time_start = (TimeNow() / MILLI);

for (w_id = (long)aptr->starting_warehouse; w_id <= aptr-
>num_warehouses; w_id++)
{
    for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
    {

        CustomerBufLoad(d_id, w_id);

        // Start parallel loading threads here...
        // Start customer table thread
        printf("...Loading customer table for: d_id = %d,
w_id = %d\n", d_id, w_id);

        hThread[0] = CreateThread(NULL,
0,
(LPTHREAD_START_ROUTINE) LoadCustomerTable,
&customer_time_start,
0,
&dwThreadID[0]);

        if (hThread[0] == NULL)
        {
            printf("Error, failed in creating creating
thread = 0.\n");
            exit(-1);
        }

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

        hThread[1] = CreateThread(NULL,
0,
(LPTHREAD_START_ROUTINE) LoadHistoryTable,
&history_time_start,
0,
&dwThreadID[1]);

```

```

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

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

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

        if (CloseHandle(hThread[1]) == FALSE)
        {
            printf("Error, failed in closing history
thread handle with errno: %d\n", GetLastError());
        }
    }

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

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

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

    // if build index after load...
    if ((aptr->build_index == 1) && (aptr->index_order == 0))
    {
        BuildIndex("idxcuscl");
        // check the number of processors on this system
        // if 8 or more processors, then build index on history.
        // if less than 8 processors, do not build the index
        num_procs = atoi(getenv( "NUMBER_OF_PROCESSORS" ));
        if (num_procs >= 8)
            BuildIndex("idxhiscl");
    }

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

    // Output the NURAND used for the loader into C_FIRST for C_ID =
1,
    // C_W_ID = 1, and C_D_ID = 1
    sprintf(cmd, "osql -S%s -U%s -P%s -d%s -e -Q\"update customer set
c_first = 'C_LOAD = %d' where c_id = 1 and c_w_id = 1 and c_d_id = 1\" >
%snurand_load.log",
        aptr->server,
        aptr->user,
        aptr->password,
        aptr->database,

```

```

        LOADER_NURAND_C,
        aptr->log_path);

    system(cmd);

    SQLFreeStmt(c_hstmt1, SQL_DROP);
    SQLDisconnect(c_hdbc1);
    SQLFreeConnect(c_hdbc1);

    SQLFreeStmt(c_hstmt2, SQL_DROP);
    SQLDisconnect(c_hdbc2);
    SQLFreeConnect(c_hdbc2);

    return;
}
//=====
//
// Function   : CustomerBufInit
//
//=====
void CustomerBufInit()
{
    long    i;

    for (i=0;i<customers_per_district;i++)
    {
        customer_buf[i].c_id = 0;
        customer_buf[i].c_d_id = 0;
        customer_buf[i].c_w_id = 0;

        strcpy(customer_buf[i].c_first,"");
        strcpy(customer_buf[i].c_middle,"");
        strcpy(customer_buf[i].c_last,"");
        strcpy(customer_buf[i].c_street_1,"");
        strcpy(customer_buf[i].c_street_2,"");
        strcpy(customer_buf[i].c_city,"");
        strcpy(customer_buf[i].c_state,"");
        strcpy(customer_buf[i].c_zip,"");
        strcpy(customer_buf[i].c_phone,"");
        strcpy(customer_buf[i].c_credit,"");

        customer_buf[i].c_credit_lim = 0;
        customer_buf[i].c_discount = (float) 0;

        strcpy(customer_buf[i].c_balance,"");

        customer_buf[i].c_ytd_payment = 0;
        customer_buf[i].c_payment_cnt = 0;
        customer_buf[i].c_delivery_cnt = 0;

        strcpy(customer_buf[i].c_data,"");

        customer_buf[i].h_amount = 0;

        strcpy(customer_buf[i].h_data,"");
    }
}
//=====
//
// Function   : CustomerBufLoad

```

```

//
// Fills shared buffer for HISTORY and CUSTOMER
//=====
void CustomerBufLoad(int d_id, long w_id)
{
    long i;
    CUSTOMER_SORT_STRUCT c[CUSTOMERS_PER_DISTRICT];

    for (i=0;i<customers_per_district;i++)
    {
        if (i < 1000)
            LastName(i, c[i].c_last);
        else
            LastName (NURand(255,0,999,LOADER_NURAND_C),
c[i].c_last);

        MakeAlphaStringPadded(8,16,FIRST_NAME_LEN, c[i].c_first);

        c[i].c_id = i+1;
    }

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

    for (i=0;i<customers_per_district;i++)
    {
        customer_buf[i].c_d_id = d_id;
        customer_buf[i].c_w_id = w_id;
        customer_buf[i].h_amount = 10.0;
        customer_buf[i].c_ytd_payment = 10.0;
        customer_buf[i].c_payment_cnt = 1;
        customer_buf[i].c_delivery_cnt = 0;
        customer_buf[i].c_id = c[i].c_id;
        strcpy(customer_buf[i].c_first, c[i].c_first);
        strcpy(customer_buf[i].c_last, c[i].c_last);
        customer_buf[i].c_middle[0] = 'O';
        customer_buf[i].c_middle[1] = 'E';
        MakeAddress(customer_buf[i].c_street_1,
            customer_buf[i].c_street_2,
            customer_buf[i].c_city,
            customer_buf[i].c_state,
            customer_buf[i].c_zip);
        MakeNumberString(16, 16, PHONE_LEN,
customer_buf[i].c_phone);

        if (RandomNumber(1L, 100L) > 10)
            customer_buf[i].c_credit[0] = 'G';
        else
            customer_buf[i].c_credit[0] = 'B';
        customer_buf[i].c_credit[1] = 'C';
        customer_buf[i].c_credit_lim = 50000.0;
        customer_buf[i].c_discount = ((float) RandomNumber(0L,
5000L)) / 10000.0;
        strcpy(customer_buf[i].c_balance, "-10.0");
        MakeAlphaStringPadded(300, 500, C_DATA_LEN,
customer_buf[i].c_data);

        // Generate HISTORY data
        MakeAlphaStringPadded(12, 24, H_DATA_LEN,
customer_buf[i].h_data);
    }
}

```

```

}
//=====
// Function : LoadCustomerTable
//
//=====
void LoadCustomerTable(LOADER_TIME_STRUCT *customer_time_start)
{
    long i;
    long c_id;
    short c_d_id;
    long c_w_id;
    char c_first[FIRST_NAME_LEN+1];
    char c_middle[MIDDLE_NAME_LEN+1];
    char c_last[LAST_NAME_LEN+1];
    char c_street_1[ADDRESS_LEN+1];
    char c_street_2[ADDRESS_LEN+1];
    char c_city[ADDRESS_LEN+1];
    char c_state[STATE_LEN+1];
    char c_zip[ZIP_LEN+1];
    char c_phone[PHONE_LEN+1];
    char c_credit[CREDIT_LEN+1];
    double c_credit_lim;
    double c_discount;
    char c_balance[6];
    double c_ytd_payment;
    short c_payment_cnt;
    short c_delivery_cnt;
    char c_data[C_DATA_LEN+1];
    char c_since[C_SINCE_LEN+1];
    RETCODE rc;

    i = 0;
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_discount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_credit_lim, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_last, 0, LAST_NAME_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_first, 0, FIRST_NAME_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);
}

```

```

    rc = bcp_bind(c_hdbc1, (BYTE *) c_credit, 0, CREDIT_LEN, NULL, 0, 0,
    ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_balance, 0, 5, NULL, 0,
    SQLCHARACTER, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_ytd_payment, 0, SQL_VARLEN_DATA,
    NULL, 0, SQLFLT8, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_payment_cnt, 0, SQL_VARLEN_DATA,
    NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_delivery_cnt, 0, SQL_VARLEN_DATA,
    NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0, ADDRESS_LEN, NULL, 0,
    0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0, ADDRESS_LEN, NULL, 0, 0,
    ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_city, 0, ADDRESS_LEN, NULL, 0, 0,
    ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_state, 0, STATE_LEN, NULL, 0, 0,
    ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_zip, 0, ZIP_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_phone, 0, PHONE_LEN, NULL, 0, 0,
    ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_since, 0, C_SINCE_LEN, NULL, 0,
    SQLCHARACTER, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0, MIDDLE_NAME_LEN, NULL,
    0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_data, 0, C_DATA_LEN, NULL, 0, 0,
    ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    for (i = 0; i < customers_per_district; i++)
    {
        c_id = customer_buf[i].c_id;
        c_d_id = customer_buf[i].c_d_id;
        c_w_id = customer_buf[i].c_w_id;

```

```

strcpy(c_first, customer_buf[i].c_first);
strcpy(c_middle, customer_buf[i].c_middle);
strcpy(c_last, customer_buf[i].c_last);
strcpy(c_street_1, customer_buf[i].c_street_1);
strcpy(c_street_2, customer_buf[i].c_street_2);
strcpy(c_city, customer_buf[i].c_city);
strcpy(c_state, customer_buf[i].c_state);
strcpy(c_zip, customer_buf[i].c_zip);
strcpy(c_phone, customer_buf[i].c_phone);
strcpy(c_credit, customer_buf[i].c_credit);

FormatDate(&c_since);

c_credit_lim = customer_buf[i].c_credit_lim;
c_discount = customer_buf[i].c_discount;
strcpy(c_balance, customer_buf[i].c_balance);
c_ytd_payment = customer_buf[i].c_ytd_payment;
c_payment_cnt = customer_buf[i].c_payment_cnt;
c_delivery_cnt = customer_buf[i].c_delivery_cnt;
strcpy(c_data, customer_buf[i].c_data);

// Send data to server
rc = bcp_sendrow(c_hdbc1);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

customer_rows_loaded++;
CheckForCommit(c_hdbc1, c_hstmt1, customer_rows_loaded,
"customer", &customer_time_start->time_start);
}
}
//=====
//
// Function : LoadHistoryTable
//
//=====
void LoadHistoryTable(LOADER_TIME_STRUCT *history_time_start)
{
    long i;
    long c_id;
    short c_d_id;
    long c_w_id;
    double h_amount;
    char h_data[H_DATA_LEN+1];
    char h_date[H_DATE_LEN+1];
    RETCODE rc;

    i = 0;
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL, 0,
    SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
    SQLINT2, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
    0, SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

```

```

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &h_date, 0, H_DATE_LEN, NULL, 0,
SQLCHARACTER, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &h_amount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) h_data, 0, H_DATA_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

for (i = 0; i < customers_per_district; i++)
{
    c_id = customer_buf[i].c_id;
    c_d_id = customer_buf[i].c_d_id;
    c_w_id = customer_buf[i].c_w_id;
    h_amount = customer_buf[i].h_amount;
    strcpy(h_data, customer_buf[i].h_data);

    FormatDate(&h_date);

    // send to server
    rc = bcp_sendrow(c_hdbc2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    history_rows_loaded++;
    CheckForCommit(c_hdbc2, c_hstmt2, history_rows_loaded,
"history", &history_time_start->time_start);
}
}
//=====
//
// Function : LoadOrders
//
//=====
void LoadOrders()
{
    LOADER_TIME_STRUCT    orders_time_start;
    LOADER_TIME_STRUCT    new_order_time_start;
    LOADER_TIME_STRUCT    order_line_time_start;
    long                  w_id;
    short                 d_id;
    DWORD                 dwThreadID[MAX_ORDER_THREADS];
    HANDLE                 hThread[MAX_ORDER_THREADS];
    char                  name[20];
    RETCODE               rc;
    char                  bcp_hint[128];
    char                  err_log_path_ord[256];

```

```

char                  err_log_path_nord[256];
char                  err_log_path_ord1[256];

// seed with unique number
seed(6);

printf("Loading orders...\n");

// if build index before load...
if ((aptr->build_index == 1) && (aptr->index_order == 1))
{
    BuildIndex("idxordc1");
    BuildIndex("idxnodc1");
    BuildIndex("idxodlc1");
}

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

rc = bcp_init(o_hdbc1, name, NULL, "logs\\orders.err", DB_IN);
strcpy(err_log_path_ord, aptr->log_path);
strcat(err_log_path_ord, "orders.err");
rc = bcp_init(o_hdbc1, name, NULL, err_log_path_ord, DB_IN);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);

if ((aptr->build_index == 1) && (aptr->index_order == 1))
{
    sprintf(bcp_hint, "tablock, order (o_w_id, o_d_id, o_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 3000));
    rc = bcp_control(o_hdbc1, BCPHINTS, (void*) bcp_hint);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
}

sprintf(name, "%s..%s", aptr->database, "new_order");

rc = bcp_init(o_hdbc2, name, NULL, "logs\\neword.err", DB_IN);
strcpy(err_log_path_nord, aptr->log_path);
strcat(err_log_path_nord, "neword.err");
rc = bcp_init(o_hdbc2, name, NULL, err_log_path_nord, DB_IN);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc2);

if ((aptr->build_index == 1) && (aptr->index_order == 1))
{
    sprintf(bcp_hint, "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*) bcp_hint);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);
}

sprintf(name, "%s..%s", aptr->database, "order_line");

rc = bcp_init(o_hdbc3, name, NULL, "logs\\ordline.err", DB_IN);
strcpy(err_log_path_ord1, aptr->log_path);
strcat(err_log_path_ord1, "ordline.err");
rc = bcp_init(o_hdbc3, name, NULL, err_log_path_ord1, DB_IN);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc3);

```

```

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcphint, "tablock, order (ol_w_id, ol_d_id,
ol_o_id, ol_number), ROWS_PER_BATCH = %u", (aptr->num_warehouses *
300000));
        rc = bcp_control(o_hdbc3, BCPHINTS, (void*) bcphint);
        if (rc != SUCCEEDED)
            HandleErrorDBC(o_hdbc3);
    }

    orders_rows_loaded      = 0;
    new_order_rows_loaded  = 0;
    order_line_rows_loaded = 0;

    OrdersBufInit();

    orders_time_start.time_start = (TimeNow() / MILLI);
    new_order_time_start.time_start = (TimeNow() / MILLI);
    order_line_time_start.time_start = (TimeNow() / MILLI);

    for (w_id = (long)aptr->starting_warehouse; w_id <= aptr-
>num_warehouses; w_id++)
    {
        for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
        {
            OrdersBufLoad(d_id, w_id);

            // start parallel loading threads here...
            // start Orders table thread
            printf("...Loading Order Table for: d_id = %d, w_id
= %d\n", d_id, w_id);

            hThread[0] = CreateThread(NULL,
0,
(LPTHREAD_START_ROUTINE) LoadOrdersTable,
&orders_time_start,
0,
&dwThreadID[0]);

            if (hThread[0] == NULL)
            {
                printf("Error, failed in creating creating
thread = 0.\n");
                exit(-1);
            }

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

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

```

```

0,
&dwThreadID[1]);

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

            // start Order-Line table thread
            printf("...Loading Order-Line Table for: d_id = %d,
w_id = %d\n", d_id, w_id);

            hThread[2] = CreateThread(NULL,
0,
(LPTHREAD_START_ROUTINE) LoadOrderLineTable,
&order_line_time_start,
0,
&dwThreadID[2]);

            if (hThread[2] == NULL)
            {
                printf("Error, failed in creating creating
thread = 2.\n");
                exit(-1);
            }

            WaitForSingleObject( hThread[0], INFINITE );
            WaitForSingleObject( hThread[1], INFINITE );
            WaitForSingleObject( hThread[2], INFINITE );

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

            if (CloseHandle(hThread[1]) == FALSE)
            {
                printf("Error, failed in closing NewOrder
thread handle with errno: %d\n", GetLastError());
            }

            if (CloseHandle(hThread[2]) == FALSE)
            {
                printf("Error, failed in closing OrderLine
thread handle with errno: %d\n", GetLastError());
            }
        }

        printf("Finished loading orders.\n");

        return;
    }
}
//=====

```



```

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

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

        for (j=0;j<=14;j++)
        {
            orders_buf[i].o_ol[j].ol = 0;
            orders_buf[i].o_ol[j].ol_i_id = 0;
            orders_buf[i].o_ol[j].ol_supply_w_id = 0;
            orders_buf[i].o_ol[j].ol_quantity = 0;
            orders_buf[i].o_ol[j].ol_amount = 0;
            strcpy(orders_buf[i].o_ol[j].ol_dist_info,"");
        }
    }
}
//=====
//
// Function   : OrdersBufLoad
//
// Fills shared buffer for ORDERS, NEWORDER, and ORDERLINE
//
//=====
void OrdersBufLoad(short d_id, long w_id)
{
    int     cust[ORDERS_PER_DISTRICT+1];
    long    o_id;
    long    ol;

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

    GetPermutation(cust, orders_per_district);

    for (o_id=0;o_id<orders_per_district;o_id++)
    {
        // Generate ORDER and NEW-ORDER data
        orders_buf[o_id].o_d_id = d_id;
        orders_buf[o_id].o_w_id = w_id;
        orders_buf[o_id].o_id = o_id+1;
        orders_buf[o_id].o_c_id = cust[o_id+1];
        orders_buf[o_id].o_ol_cnt = (short)RandomNumber(5L, 15L);

        if (o_id < first_new_order)

```

```

    {
        orders_buf[o_id].o_carrier_id =
(short)RandomNumber(1L, 10L);
        orders_buf[o_id].o_all_local = 1;
    }
    else
    {
        orders_buf[o_id].o_carrier_id = 0;
        orders_buf[o_id].o_all_local = 1;
    }

    for (ol=0; ol<orders_buf[o_id].o_ol_cnt; ol++)
    {
        orders_buf[o_id].o_ol[ol].ol = ol+1;
        orders_buf[o_id].o_ol[ol].ol_i_id =
RandomNumber(1L, max_items);
        orders_buf[o_id].o_ol[ol].ol_supply_w_id = w_id;
        orders_buf[o_id].o_ol[ol].ol_quantity = 5;
        MakeAlphaString(24, 24, OL_DIST_INFO_LEN,
&orders_buf[o_id].o_ol[ol].ol_dist_info);

        // Generate ORDER-LINE data
        if (o_id < first_new_order)
        {
            orders_buf[o_id].o_ol[ol].ol_amount = 0;
            // Added to insure ol_delivery_d set
properly during load

            FormatDate(&orders_buf[o_id].o_ol[ol].ol_delivery_d);
        }
        else
        {
            orders_buf[o_id].o_ol[ol].ol_amount =
RandomNumber(1,999999)/100.0;
            // Added to insure ol_delivery_d set
properly during load

            // odbc datetime format

            strcpy(orders_buf[o_id].o_ol[ol].ol_delivery_d,"1899-12-31
00:00:00.000");
        }
    }
}
//=====
//
// Function   : LoadOrdersTable
//
//=====
void LoadOrdersTable(LOADER_TIME_STRUCT *orders_time_start)
{
    int     i;
    long    o_id;
    short   o_d_id;
    long    o_w_id;
    long    o_c_id;
    short   o_carrier_id;
    short   o_ol_cnt;
    short   o_all_local;

```

```

char          o_entry_d[O_ENTRY_D_LEN+1];
RETCODE      rc;
DBINT        rcint;

// bind ORDER data
i = 0;
rc = bcp_bind(o_hdbc1, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_carrier_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_ol_cnt, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_all_local, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_entry_d, 0, O_ENTRY_D_LEN,
NULL, 0, SQLCHARACTER, ++i);
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);
}

```

```

if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
{
    rcint = bcp_done(o_hdbc1);
    if (rcint < 0)
        HandleErrorDBC(o_hdbc1);

    SQLFreeStmt(o_hstmt1, SQL_DROP);
    SQLDisconnect(o_hdbc1);
    SQLFreeConnect(o_hdbc1);

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

    // build non-clustered index
    if (aptr->build_index == 1)
        BuildIndex("idxordnc");
}
}
//=====
//
// Function      : LoadNewOrderTable
//
//=====
void LoadNewOrderTable(LOADER_TIME_STRUCT *new_order_time_start)
{
    long         i;
    long         o_id;
    short        o_d_id;
    long         o_w_id;
    RETCODE      rc;
    DBINT        rcint;

    // Bind NEW-ORDER data
    i = 0;
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);

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

        rc = bcp_sendrow(o_hdbc2);
        if (rc != SUCCEEDED)
            HandleErrorDBC(o_hdbc2);

        new_order_rows_loaded++;
        CheckForCommit_Big(o_hdbc2, o_hstmt2,
new_order_rows_loaded, "new_order", &new_order_time_start->time_start);

```

```

}
if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
{
    rcint = bcp_done(o_hdbc2);
    if (rcint < 0)
        HandleErrorDBC(o_hdbc2);

    SQLFreeStmt(o_hstmt2, SQL_DROP);
    SQLDisconnect(o_hdbc2);
    SQLFreeConnect(o_hdbc2);

    // if build index after load...
    if ((aptr->build_index == 1) && (aptr->index_order == 0))
        BuildIndex("idxnodcl");
}
}
//=====
//
// Function   : LoadOrderLineTable
//
//=====
void LoadOrderLineTable(LOADER_TIME_STRUCT *order_line_time_start)
{
    long        i;
    long        j;
    long        o_id;
    short       o_d_id;
    long        o_w_id;
    double      ol;
    long        ol_i_id;
    long        ol_supply_w_id;
    short       ol_quantity;
    double      ol_amount;
    char        ol_dist_info[DIST_INFO_LEN+1];
    char        ol_delivery_d[OL_DELIVERY_D_LEN+1];
    RETCODE     rc;
    DBINT       rcint;

    // bind ORDER-LINE data
    i = 0;
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_i_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
}

```

```

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_delivery_d, 0,
OL_DELIVERY_D_LEN, NULL, 0, SQLCHARACTER, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_amount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_supply_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_quantity, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) ol_dist_info, 0, DIST_INFO_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

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

        for (j=0; j < orders_buf[i].o_ol_cnt; j++)
        {
            ol           = orders_buf[i].o_ol[j].ol;
            ol_i_id     = orders_buf[i].o_ol[j].ol_i_id;
            ol_supply_w_id =
orders_buf[i].o_ol[j].ol_supply_w_id;
            ol_quantity  = orders_buf[i].o_ol[j].ol_quantity;
            ol_amount    = orders_buf[i].o_ol[j].ol_amount;

            strcpy(ol_delivery_d, orders_buf[i].o_ol[j].ol_delivery_d);

            strcpy(ol_dist_info, orders_buf[i].o_ol[j].ol_dist_info);

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

            order_line_rows_loaded++;

            CheckForCommit_Big(o_hdbc3, o_hstmt3,
order_line_rows_loaded, "order_line", &order_line_time_start->time_start);
        }
    }

    if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
    {
        rcint = bcp_done(o_hdbc3);
        if (rcint < 0)
            HandleErrorDBC(o_hdbc3);

        SQLFreeStmt(o_hstmt3, SQL_DROP);
        SQLDisconnect(o_hdbc3);
    }
}

```

```

        SQLFreeConnect(o_hdbc3);
        // if build index after load...
        if ((aptr->build_index == 1) && (aptr->index_order == 0))
            BuildIndex("idxodlcl");
    }
}
//=====
//
// Function   : GetPermutation
//
//=====
void GetPermutation(int perm[], int n)
{
    int i, r, t;

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

    for (i=1;i<=n;i++)
    {
        r = RandomNumber(i,n);
        t = perm[i];
        perm[i] = perm[r];
        perm[r] = t;
    }
}
//=====
//
// Function   : CheckForCommit
//
//=====
void CheckForCommit(HDBC hdbc,
                   HSTMT hstmt,
                   long rows_loaded,
                   char *table_name,
                   long *time_start)
{
    long    time_end, time_diff;

    if ( !(rows_loaded % aptr->batch) )
    {
        time_end = (TimeNow() / MILLI);
        time_diff = time_end - *time_start;

        printf("-> Loaded %ld rows into %s in %ld sec - Total = %d
(%d rows)\n",
               aptr->batch,
               table_name,
               time_diff,
               rows_loaded,
               (float) aptr->batch / (time_diff ? time_diff
: 1L));

        *time_start = time_end;
    }

    return;
}
//=====

```

```

//
// Function   : CheckForCommit_Big
//
//=====
void CheckForCommit_Big(HDBC hdbc,
                       HSTMT hstmt,
                       double rows_loaded,
                       char *table_name,
                       long *time_start)
{
    long    time_end, time_diff;

    if ( !(fmod(rows_loaded,aptr->batch) ) )
    {
        time_end = (TimeNow() / MILLI);
        time_diff = time_end - *time_start;

        printf("-> Loaded %ld rows into %s in %ld sec - Total =
%.0f (%.2f rps)\n",
               aptr->batch,
               table_name,
               time_diff,
               rows_loaded,
               (float) aptr->batch / (time_diff ? time_diff
: 1L));

        *time_start = time_end;
    }

    return;
}
//=====
//
// Function   : OpenConnections
//
//=====
void OpenConnections()
{
    RETCODE    rc;

    char        szDriverString[300];
    char        szDriverStringOut[1024];
    SQLSMALLINT cbDriverStringOut;

    SQLAllocHandle(SQL_HANDLE_ENV, SQL_NULL_HANDLE, &henv );

    SQLSetEnvAttr(henv, SQL_ATTR_ODBC_VERSION, (void*)SQL_OV_ODBC3, 0
);

    SQLAllocHandle(SQL_HANDLE_DBC, henv , &i_hdbc1);
    SQLAllocHandle(SQL_HANDLE_DBC, henv , &w_hdbc1);
    SQLAllocHandle(SQL_HANDLE_DBC, henv , &c_hdbc1);
    SQLAllocHandle(SQL_HANDLE_DBC, henv , &c_hdbc2);
    SQLAllocHandle(SQL_HANDLE_DBC, henv , &o_hdbc1);
    SQLAllocHandle(SQL_HANDLE_DBC, henv , &o_hdbc2);
    SQLAllocHandle(SQL_HANDLE_DBC, henv , &o_hdbc3);
}

```

```

    SQLSetConnectAttr(i_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
    SQLSetConnectAttr(w_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
    SQLSetConnectAttr(c_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
    SQLSetConnectAttr(c_hdbc2, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
    SQLSetConnectAttr(o_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
    SQLSetConnectAttr(o_hdbc2, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
    SQLSetConnectAttr(o_hdbc3, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );

    // Open connections to SQL Server
    // Connection 1
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
aptr->server,
aptr->user,
aptr->password,
aptr->database );

    rc = SQLSetConnectOption (i_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(i_hdbc1);

    rc = SQLDriverConnect ( i_hdbc1,
NULL,
(SQLCHAR*)&szDriverString[0]
,
SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0] ,
sizeof(szDriverStringOut),
&cbDriverStringOut,
SQL_DRIVER_NOPROMPT );

    if ( (rc != SUCCEED) &&
(rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(i_hdbc1);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }

    // Connection 2
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
aptr->server,
aptr->user,
aptr->password,
aptr->database );

    rc = SQLSetConnectOption (w_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);

    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

```

```

rc = SQLDriverConnect ( w_hdbc1,
NULL,
(SQLCHAR*)&szDriverString[0] ,
SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0] ,
sizeof(szDriverStringOut),
&cbDriverStringOut,
SQL_DRIVER_NOPROMPT
);

    if ( (rc != SUCCEED) &&
(rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(w_hdbc1);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }

    // Connection 3
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
aptr->server,
aptr->user,
aptr->password,
aptr->database );

    rc = SQLSetConnectOption (c_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);

    rc = SQLDriverConnect ( c_hdbc1,
NULL,
(SQLCHAR*)&szDriverString[0] ,
SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0] ,
sizeof(szDriverStringOut),
&cbDriverStringOut,
SQL_DRIVER_NOPROMPT
);

    if ( (rc != SUCCEED) &&
(rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(c_hdbc1);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }

    // Connection 4
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
aptr->server,
aptr->user,
aptr->password,
aptr->database );

```

```

    rc = SQLSetConnectOption (c_hdbc2, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc2);

    rc = SQLDriverConnect ( c_hdbc2,
                            NULL,
                            (SQLCHAR*)&szDriverString[0] ,
                            SQL_NTS,
                            (SQLCHAR*)&szDriverStringOut[0],
                            sizeof(szDriverStringOut),
                            &cbDriverStringOut,
                            SQL_DRIVER_NOPROMPT
);
    if ( (rc != SUCCEED) &&
        (rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(c_hdbc2);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }
    // Connection 5
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
            aptr->server,
            aptr->user,
            aptr->password,
            aptr->database );

    rc = SQLSetConnectOption (o_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc1);

    rc = SQLDriverConnect ( o_hdbc1,
                            NULL,
                            (SQLCHAR*)&szDriverString[0] ,
                            SQL_NTS,
                            (SQLCHAR*)&szDriverStringOut[0],
                            sizeof(szDriverStringOut),
                            &cbDriverStringOut,
                            SQL_DRIVER_NOPROMPT
);
    if ( (rc != SUCCEED) &&
        (rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(o_hdbc1);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }

    // Connection 6
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,

```

```

            aptr->server,
            aptr->user,
            aptr->password,
            aptr->database );

    rc = SQLSetConnectOption (o_hdbc2, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc2);

    rc = SQLDriverConnect ( o_hdbc2,
                            NULL,
                            (SQLCHAR*)&szDriverString[0] ,
                            SQL_NTS,
                            (SQLCHAR*)&szDriverStringOut[0],
                            sizeof(szDriverStringOut),
                            &cbDriverStringOut,
                            SQL_DRIVER_NOPROMPT
);
    if ( (rc != SUCCEED) &&
        (rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(o_hdbc2);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }

    // Connection 7
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
            aptr->server,
            aptr->user,
            aptr->password,
            aptr->database );

    rc = SQLSetConnectOption (o_hdbc3, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = SQLDriverConnect ( o_hdbc3,
                            NULL,
                            (SQLCHAR*)&szDriverString[0] ,
                            SQL_NTS,
                            (SQLCHAR*)&szDriverStringOut[0],
                            sizeof(szDriverStringOut),
                            &cbDriverStringOut,
                            SQL_DRIVER_NOPROMPT
);
    if ( (rc != SUCCEED) &&
        (rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(o_hdbc3);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }

```

```

    }
}
//=====
//
// Function name: BuildIndex
//
//=====
void BuildIndex(char *index_script)
{
    char cmd[256];

    printf("Starting index creation: %s\n",index_script);

    sprintf(cmd, "osql -S%s -U%s -P%s -e -i%s\\%s.sql > %s%s.log",
            aptr->server,
            aptr->user,
            aptr->password,
            aptr->index_script_path,
            index_script,
            aptr->log_path,
            index_script);

    system(cmd);

    printf("Finished index creation: %s\n",index_script);
}
//=====
//
// Function name: HandleErrorDBC
//
//=====
void HandleErrorDBC (SQLHDBC hdbc1)
{
    SQLCHAR          SqlState[6], Msg[SQL_MAX_MESSAGE_LENGTH];
    SQLLEN           NativeError;
    SQLSMALLINT i, MsgLen;
    SQLRETURN rc2;
    char             timebuf[128];
    char             datebuf[128];
    char             err_log_path[256];
    FILE             *fp1;

    i = 1;
    while (( rc2 = SQLGetDiagRec(SQL_HANDLE_DBC , hdbc1, i, SqlState ,
    &NativeError,
                                Msg, sizeof(Msg) , &MsgLen )) !=
    SQL_NO_DATA )
    {
        printf( szLastError , "%s" , Msg );

        _strtime(timebuf);
        _strdate(datebuf);

        printf( "[%s : %s] %s\n==>SQLState: %s\n" , datebuf,
timebuf, szLastError, SqlState);

        strcpy(err_log_path,aptr->log_path);
        strcat(err_log_path,"tpccldr.err");
        fp1 = fopen(err_log_path,"a+");
    }
}

```

```

    if (fp1 == NULL)
        printf("ERROR: Unable to open errorlog file.\n");
    else
    {
        fprintf(fp1, "[%s : %s] %s\nSQLState: %s\n" ,
datebuf, timebuf, szLastError, SqlState);
        fclose(fp1);
    }
    i++;
}
//=====
//
// Function : HandleErrorSTMT
//
//=====
void HandleErrorSTMT (HSTMT hstmt1)
{
    SQLCHAR          SqlState[6], Msg[SQL_MAX_MESSAGE_LENGTH];
    SQLLEN           NativeError;
    SQLSMALLINT i, MsgLen;
    SQLRETURN rc2;
    char             timebuf[128];
    char             datebuf[128];
    char             err_log_path[256];
    FILE             *fp1;

    i = 1;
    while (( rc2 = SQLGetDiagRec(SQL_HANDLE_STMT , hstmt1, i, SqlState
, &NativeError,
                                Msg, sizeof(Msg) , &MsgLen )) !=
    SQL_NO_DATA )
    {
        if (total_db_errors >= MAX_SQL_ERRORS)
        {
            printf(">>>> Maximum SQL errors of %d exceeded.
Terminating TPCCldr.<<<<\n",total_db_errors);
            exit(9);
        }
        total_db_errors++;

        printf( szLastError , "%s" , Msg );

        _strtime(timebuf);
        _strdate(datebuf);

        printf( "[%s : %s] %s\nSQLState: %s\n" , datebuf, timebuf,
szLastError, SqlState);

        strcpy(err_log_path,aptr->log_path);
        strcat(err_log_path,"tpccldr.err");
        fp1 = fopen(err_log_path,"a+");
        if (fp1 == NULL)
            printf("ERROR: Unable to open errorlog file.\n");
        else
        {
            fprintf(fp1, "[%s : %s] %s\nSQLState: %s\n" ,
datebuf, timebuf, szLastError, SqlState);
            fclose(fp1);
        }
    }
}

```

```

        }
        i++;
    }
}
//=====
//
// Function   : FormatDate
//
//=====
void FormatDate ( char* szTimeCOutput )
{
    struct tm when;
    time_t now;

    time( &now );
    when = *localtime( &now );

    mktime( &when );

    // odbc datetime format
    strftime( szTimeCOutput , 30 , "%Y-%m-%d %H:%M:%S.000", &when );

    return;
}

```


Appendix C - Tunable Parameters

BIOS.TXT

```
Platform -> ACPI -> Hot Addable Memory -> Disable
Platform -> Console Manager Delay -> 00
Advanced -> PCI Hot-Plug Resources -> Disabled
```

BOOT.INI

```
[boot loader]
timeout=10
default=multi(0)disk(0)rdisk(0)partition(1)\WINDOWS
[operating systems]
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows Server 2003
Datacenter x64 Edition" /noexecute=optout /fastdetect
```

User Rights Assignment

The Group Policy Editor of the OS was used to modify an entry under User Rights Assignment. Specifically, the right to “Lock pages in memory” was given to the Administrators group so that SQL Server 2005 could use large amounts of physical memory.

Hyperthreading.txt

OS Processor <-> Physical/Logical Mapping				
OS Processor	Phys. Package	Core	Logical	Processor
0	0	0	0	0
1	0	0	1	1
2	0	1	0	0
3	0	1	1	1
4	1	0	0	0
5	1	0	1	1
6	1	1	0	0
7	1	1	1	1
8	2	0	0	0
9	2	0	1	1
10	2	1	0	0
11	2	1	1	1

12	3	0	0
13	3	0	1
14	3	1	0
15	3	1	1
16	4	0	0
17	4	0	1
18	4	1	0
19	4	1	1
20	5	0	0
21	5	0	1
22	5	1	0
23	5	1	1
24	6	0	0
25	6	0	1
26	6	1	0
27	6	1	1
28	7	0	0
29	7	0	1
30	7	1	0
31	7	1	1

Microsoft SQL Server Startup Parameters

StartSQL.cmd

```
SET MAXOUTSTANDINGWRITE=500
"C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Binn\sqlservr.exe" -c
-x -T3502 -T8011 -T8012 -T8018 -T8019 -T8020 -T661 -T834 -T677 -T8193 -
T8744

rem pause
rem -T661 - Disable the ghost record removal process
rem -T677 - Disable checks in Access Methods, flag not needed in RTM,
disabled by default.
rem -T834 - Use Large Pages
rem -T3502 - Display checkpoint information in errorlog
rem -T8011 - Disable ring buffer for resource monitor
rem -T8012 - Disable ring buffer for schedulers
rem -T8018 - Disable exception ring buffer
rem -T8019 - Disable stack collection for exception ring buffers
rem -T8020 - Disable working set trimming
rem -T8193 - Enable Large pages support
rem -T8744 - Disable pre-fetch
```

Microsoft SQL Server Configuration Parameters

Sydbtune.ver

```

1> 2> 3> 4> 5> 6> 7> 8> 9> 10> 11> 12> -----
--
--
-- File:   VERSION.SQL
--
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
--
-- Copyright Microsoft, 2005
--
--
-- - Extracts current version of SQL Server
--
-----
USE master
1> 2> 3> 4> 5>
SELECT CONVERT(char(20), SERVERPROPERTY('ProductVersion')),
       CONVERT(char(20), SERVERPROPERTY('ProductLevel')),
       CONVERT(char(29), SERVERPROPERTY('Edition'))
-----
9.00.2007.00      RTM      Enterprise Edition (64-bit)
(1 row affected)
1> 2> 3>
SELECT CONVERT(char(30), GETDATE(), 21)
-----
2006-01-30 21:45:53.140
(1 row affected)
1>
1> 2> 3> 4> 5> 6> 7> 8> 9> 10> 11> 12> 13> 14>
-----
--
--
-- File:   CONFIG.SQL
--
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
--
-- Copyright Microsoft, 2005
--
--
-- - Collects SQL Server configuration parameters
--

```

```

--
--
-----
PRINT ' '
SELECT CONVERT(char(30), GETDATE(), 21)
PRINT ' '
-----
2006-01-30 21:45:53.420
(1 row affected)
1> 2> 3> Configuration option 'show advanced options' changed from 1 to 1.
Run the RECONFIGURE statement to install.

sp_configure 'show advanced',1
1> 2> 3>
RECONFIGURE WITH OVERRIDE
1> 2> 3>
sp_configure
name                minimum    maximum    config_value
run_value
-----
Ad Hoc Distributed Queries                0          1          0
0
affinity I/O mask                        -2147483648 2147483647 0
0
affinity mask                            -2147483648 2147483647 -1
-1
affinity64 I/O mask                      -2147483648 2147483647 0
0
affinity64 mask                          -2147483648 2147483647 0
0
Agent XPs                                0          1          0
0
allow updates                            0          1          0
0
awe enabled                               0          1          0
0
blocked process threshold                0          86400     0
0
c2 audit mode                            0          1          0
0
clr enabled                              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
Database Mail XPs                       0          1          0
0
default full-text language               0 2147483647 1033
1033

```

default language	0	9999	0	recovery interval (min)	0	32767	32767
0				32767			
default trace enabled	0	1	1	remote access	0	1	1
1				1			
disallow results from triggers	0	1	0	remote admin connections	0	1	0
0				0			
fill factor (%)	0	100	0	remote login timeout (s)	0	2147483647	20
0				20			
ft crawl bandwidth (max)	0	32767	100	remote proc trans	0	1	0
100				0			
ft crawl bandwidth (min)	0	32767	0	remote query timeout (s)	0	2147483647	600
0				600			
ft notify bandwidth (max)	0	32767	100	Replication XPs	0	1	0
100				0			
ft notify bandwidth (min)	0	32767	0	scan for startup procs	0	1	0
0				0			
in-doubt xact resolution	0	2	0	server trigger recursion	0	1	1
0				1			
index create memory (KB)	704	2147483647	0	set working set size	0	1	0
0				0			
lightweight pooling	0	1	1	show advanced options	0	1	1
1				1			
locks	5000	2147483647	0	SMO and DMO XPs	0	1	1
0				1			
max degree of parallelism	0	64	1	SQL Mail XPs	0	1	0
1				0			
max full-text crawl range	0	256	4	transform noise words	0	1	0
4				0			
max server memory (MB)	16	2147483647	252500	two digit year cutoff	1753	9999	2049
252500				2049			
max text repl size (B)	0	2147483647	65536	user connections	0	32767	0
65536				0			
max worker threads	128	32767	656	user options	0	32767	0
656				0			
media retention	0	365	0	Web Assistant Procedures	0	1	0
0				0			
min memory per query (KB)	512	2147483647	1024	xp_cmdshell	0	1	0
1024				0			
min server memory (MB)	0	2147483647	0	1>			
0							
nested triggers	0	1	1				
1							
network packet size (B)	512	32767	4096				
4096							
Ole Automation Procedures	0	1	0				
0							
open objects	0	2147483647	0				
0							
PH timeout (s)	1	3600	60				
60							
precompute rank	0	1	0	SP Read Cache State	Disabled		
0				SP Write Cache State	Enabled		
priority boost	0	1	1	Cache Page size:	16		
1				Write Cache Mirrored:	YES		
query governor cost limit	0	2147483647	0	Low Watermark:	20		
0				High Watermark:	80		
query wait (s)	-1	2147483647	-1	SPA Cache pages:	27253		
-1				SPB Cache pages:	0		
				Unassigned Cache Pages:	0		

Storage Configuration Information

Log DPE-Cache Configuration

SP Read Cache State	Disabled
SP Write Cache State	Enabled
Cache Page size:	16
Write Cache Mirrored:	YES
Low Watermark:	20
High Watermark:	80
SPA Cache pages:	27253
SPB Cache pages:	0
Unassigned Cache Pages:	0

```

Read Hit Ratio:                N/A
Write Hit Ratio:               0
Prct Dirty Cache Pages =     0
Prct Cache Pages Owned =     0
SPA Read Cache State          Disabled
SPB Read Cache State          Disabled
SPA Write Cache State         Enabled
SPB Write Cache State         Enabled
System Buffer (spA):          454 MB
System Buffer (spB):          454 MB
SPS Test Day:                 Saturday
SPS Test Time:                17:00
SPA Physical Memory Size =    1022
SPB Physical Memory Size =    1022
Physical memory size of Front-End = Switch not supported
Physical memory size of Back-End = Switch not supported
SPA Free Memory Size =       56
SPB Free Memory Size =       56
Free Memory Size of Front-End = Switch not supported
Free Memory Size of Back-End = Switch not supported
SPA Read Cache Size =        0
SPB Read Cache Size =        0
SPA Write Cache Size =       512
SPB Write Cache Size =       512
SPA Optimized Raid 3 Memory Size = 0
SPB Optimized Raid 3 Memory Size = 0

```

Log DPE LUN Configurations

Lun 0

Statistics logging is disabled.
 Certain fields are not printed if statistics logging is not enabled.

```

Prefetch size (blocks) =      0
Prefetch multiplier =        4
Segment size (blocks) =      0
Segment multiplier =         4
Maximum prefetch (blocks) =   4096
Prefetch Disable Size (blocks) = 4097
Prefetch idle count =        40

```

```

Prefetching: NO
Prefetched data retained   YES

```

Read cache configured according to specified parameters.

```

Total Hard Errors:           0
Total Soft Errors:           0
Total Queue Length:         0
Name                         LUN 0
Minimum latency reads N/A

```

```

RAID Type:                   RAID1/0
RAIDGroup ID:                0
State:                        Bound
Stripe Crossing:             0
Element Size:                256
Current owner:               SP A
Offset:                       0
Auto-trespass:               DISABLED
Auto-assign:                 DISABLED
Write cache:                 ENABLED
Read cache:                  DISABLED
Idle Threshold:              0
Idle Delay Time:             20
Write Aside Size:            1023
Default Owner:               SP A
Rebuild Priority:            ASAP
Verify Priority:             ASAP
Prct Reads Forced Flushed:   0
Prct Writes Forced Flushed: 0
Prct Rebuilt:                100
Prct Bound:                  100
LUN Capacity (Megabytes):    652463
LUN Capacity (Blocks):      1336245760

```

```

UID:
60:06:01:60:83:40:0F:00:E4:59:0A:58:72:84:DA:11
Bus 0 Enclosure 0 Disk 4 Queue Length:      134
Bus 0 Enclosure 0 Disk 2 Queue Length:      167
Bus 0 Enclosure 0 Disk 0 Queue Length:      178
Bus 0 Enclosure 1 Disk 3 Queue Length:       0
Bus 0 Enclosure 1 Disk 1 Queue Length:       0
Bus 0 Enclosure 0 Disk 3 Queue Length:      134
Bus 0 Enclosure 0 Disk 1 Queue Length:      168
Bus 0 Enclosure 1 Disk 4 Queue Length:       0
Bus 0 Enclosure 1 Disk 2 Queue Length:       0
Bus 0 Enclosure 1 Disk 0 Queue Length:       0
Bus 0 Enclosure 0 Disk 4 Hard Read Errors:   0
Bus 0 Enclosure 0 Disk 2 Hard Read Errors:   0
Bus 0 Enclosure 0 Disk 0 Hard Read Errors:   0
Bus 0 Enclosure 1 Disk 3 Hard Read Errors:   0
Bus 0 Enclosure 1 Disk 1 Hard Read Errors:   0
Bus 0 Enclosure 0 Disk 3 Hard Read Errors:   0
Bus 0 Enclosure 0 Disk 1 Hard Read Errors:   0
Bus 0 Enclosure 1 Disk 4 Hard Read Errors:   0
Bus 0 Enclosure 1 Disk 2 Hard Read Errors:   0
Bus 0 Enclosure 1 Disk 0 Hard Read Errors:   0
Bus 0 Enclosure 0 Disk 4 Hard Write Errors:  0
Bus 0 Enclosure 0 Disk 2 Hard Write Errors:  0
Bus 0 Enclosure 0 Disk 0 Hard Write Errors:  0
Bus 0 Enclosure 1 Disk 3 Hard Write Errors:  0
Bus 0 Enclosure 1 Disk 1 Hard Write Errors:  0
Bus 0 Enclosure 0 Disk 3 Hard Write Errors:  0
Bus 0 Enclosure 0 Disk 1 Hard Write Errors:  0
Bus 0 Enclosure 1 Disk 4 Hard Write Errors:  0
Bus 0 Enclosure 1 Disk 2 Hard Write Errors:  0
Bus 0 Enclosure 1 Disk 0 Hard Write Errors:  0
Bus 0 Enclosure 0 Disk 4 Soft Read Errors:   0
Bus 0 Enclosure 0 Disk 2 Soft Read Errors:   0
Bus 0 Enclosure 0 Disk 0 Soft Read Errors:   0

```

```

Bus 0 Enclosure 1 Disk 3 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 1 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 3 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 1 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 4 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 2 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 0 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 4 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 2 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 0 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 3 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 1 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 3 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 1 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 4 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 2 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 0 Soft Write Errors: 0

Bus 0 Enclosure 0 Disk 4 Enabled
Bus 0 Enclosure 0 Disk 2 Enabled
Bus 0 Enclosure 0 Disk 0 Enabled
Bus 0 Enclosure 1 Disk 3 Enabled
Bus 0 Enclosure 1 Disk 1 Enabled
Bus 0 Enclosure 0 Disk 3 Enabled
Bus 0 Enclosure 0 Disk 1 Enabled
Bus 0 Enclosure 1 Disk 4 Enabled
Bus 0 Enclosure 1 Disk 2 Enabled

Bus 0 Enclosure 1 Disk 0 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

Lun 1

```

Statistics logging is disabled.
Certain fields are not printed if statistics
logging is not enabled.
Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 4096
Prefetch Disable Size (blocks) = 4097
Prefetch idle count = 40

Prefetching: NO

```

```

Prefetched data retained YES
Read cache configured according to
specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name LUN 1
Minimum latency reads N/A

RAID Type: RAID1/0
RAIDGroup ID: 1
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP A
Offset: 0
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: ENABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: ASAP
Verify Priority: ASAP
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity (Megabytes): 684273
LUN Capacity (Blocks): 1401392640
UID:
60:06:01:60:83:40:0F:00:F2:AA:86:6D:72:84:DA:11
Bus 0 Enclosure 0 Disk 5 Queue Length: 0
Bus 0 Enclosure 0 Disk 8 Queue Length: 0
Bus 0 Enclosure 0 Disk 6 Queue Length: 0
Bus 0 Enclosure 1 Disk 8 Queue Length: 0
Bus 0 Enclosure 1 Disk 6 Queue Length: 0
Bus 0 Enclosure 0 Disk 9 Queue Length: 0
Bus 0 Enclosure 0 Disk 7 Queue Length: 0
Bus 0 Enclosure 1 Disk 9 Queue Length: 0
Bus 0 Enclosure 1 Disk 7 Queue Length: 0
Bus 0 Enclosure 1 Disk 5 Queue Length: 0
Bus 0 Enclosure 0 Disk 5 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 8 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 6 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 8 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 6 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 9 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 7 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 9 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 7 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 5 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 5 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 8 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 6 Hard Write Errors: 0

```

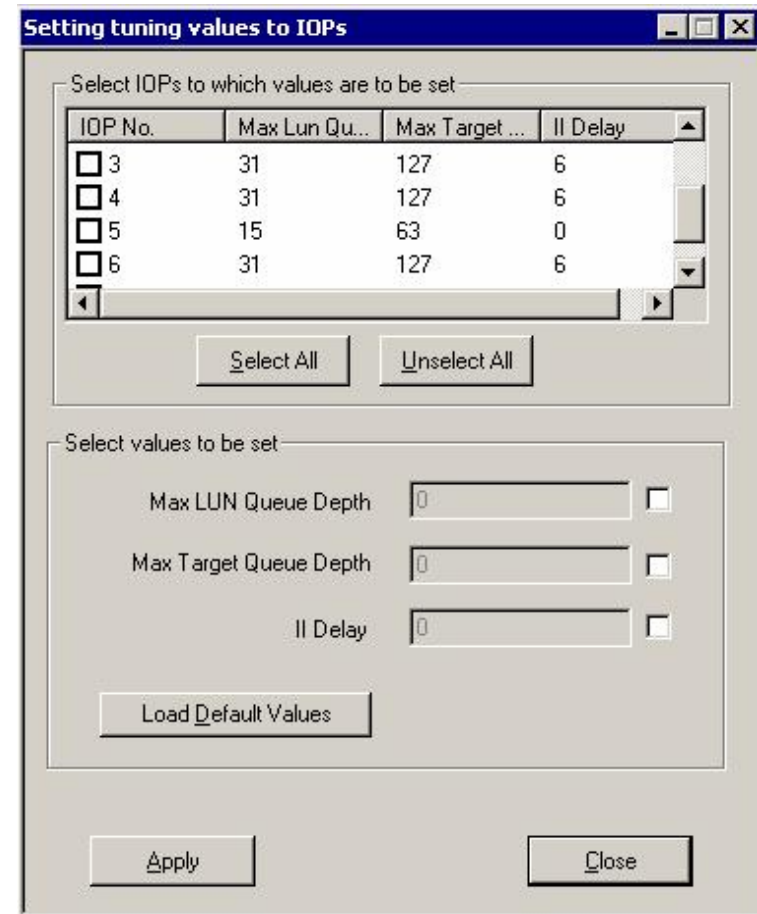
```

Bus 0 Enclosure 1 Disk 8 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 6 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 9 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 7 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 9 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 7 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 5 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 5 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 8 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 6 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 8 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 6 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 9 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 7 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 9 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 7 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 5 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 5 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 8 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 6 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 8 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 6 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 9 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 7 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 9 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 7 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 5 Soft Write Errors: 0

Bus 0 Enclosure 0 Disk 5 Enabled
Bus 0 Enclosure 0 Disk 8 Enabled
Bus 0 Enclosure 0 Disk 6 Enabled
Bus 0 Enclosure 1 Disk 8 Enabled
Bus 0 Enclosure 1 Disk 6 Enabled
Bus 0 Enclosure 0 Disk 9 Enabled
Bus 0 Enclosure 0 Disk 7 Enabled
Bus 0 Enclosure 1 Disk 9 Enabled
Bus 0 Enclosure 1 Disk 7 Enabled
Bus 0 Enclosure 1 Disk 5 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

Fibre Channel HBAUtility Settings



Windows Directory C:\WINDOWS
 System Directory C:\WINDOWS\system32
 Boot Device \Device\HarddiskVolume1
 Locale United States
 Hardware Abstraction Layer Version = "5.2.3790.1830
 (srv03_spl_rtm.050324-1447)"
 User Name TPCC-ZORRO\Administrator
 Time Zone Pacific Standard Time
 Total Physical Memory 262,014.41 MB
 Available Physical Memory 1.30 GB
 Total Virtual Memory 254.41 GB
 Available Virtual Memory 4.45 GB
 Page File Space 4.00 GB
 Page File C:\pagefile.sys

[Hardware Resources]

[Conflicts/Sharing]

Resource	Device	
I/O Port 0x00000000-0x00001FFF	PCI bus	
I/O Port 0x00000000-0x00001FFF	Direct memory access controller	
I/O Port 0x00002000-0x00002FFF	PCI bus	
I/O Port 0x00002000-0x00002FFF	Intel(R) P64H2 PCI to PCI Bridge - 1460	
I/O Port 0x00002000-0x00002FFF	Adaptec ASC-48300 SAS/SATA Host Adapter	
IRQ 10	Intel(R) 82801DB/DBM SMBus Controller - 24C3	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
IRQ 10	Intel(R) P64H2 PCI Hot Plug Controller - 1462	
Memory Address 0xE4F00000-0xE4FFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460	
Memory Address 0xE4F00000-0xE4FFFFFF	PCI standard PCI-to-PCI bridge	
Memory Address 0xE8000000-0xECFFFFFF	PCI bus	
Memory Address 0xE8000000-0xECFFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460	
Memory Address 0xE8000000-0xECFFFFFF	PCI standard PCI-to-PCI bridge	
Memory Address 0xE8000000-0xECFFFFFF	Unisys Intelligent Fibre Channel Fabric Bus Adapter	
Memory Address 0xF0E00000-0xF0FFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460	

Memory Address 0xF0E00000-0xF0FFFFFF	PCI standard PCI-to-PCI bridge
Memory Address 0xF0F00000-0xF0FFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xF0F00000-0xF0FFFFFF	PCI standard PCI-to-PCI bridge
I/O Port 0x00003000-0x0000FFFF	PCI bus
I/O Port 0x00003000-0x0000FFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460
I/O Port 0x00003000-0x0000FFFF	Intel(R) PRO/1000 MT Dual Port Network Connection #2
Memory Address 0xDFF00000-0xDFFFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xDFF00000-0xDFFFFFFF	PCI standard PCI-to-PCI bridge
Memory Address 0xE2000000-0xE2FFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xE2000000-0xE2FFFFFF	PCI standard PCI-to-PCI bridge
Memory Address 0xE2000000-0xE2FFFFFF	Unisys Intelligent Fibre Channel Fabric Bus Adapter
Memory Address 0xE1000000-0xE4FFFFFF	PCI bus
Memory Address 0xE1000000-0xE4FFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xE1000000-0xE4FFFFFF	PCI standard PCI-to-PCI bridge
Memory Address 0xE1000000-0xE4FFFFFF	Unisys Intelligent Fibre Channel Fabric Bus Adapter
Memory Address 0xEBE00000-0xEBEFFFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xEBE00000-0xEBEFFFFFFF	PCI standard PCI-to-PCI bridge
Memory Address 0xE9000000-0xE9FFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xE9000000-0xE9FFFFFF	PCI standard PCI-to-PCI bridge
Memory Address 0xE9000000-0xE9FFFFFF	Unisys Intelligent Fibre Channel Fabric Bus Adapter
Memory Address 0xED000000-0xF0FFFFFF	PCI bus
Memory Address 0xED000000-0xF0FFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xED000000-0xF0FFFFFF	PCI standard PCI-to-PCI bridge
Memory Address 0xED000000-0xF0FFFFFF	Unisys Intelligent Fibre Channel Fabric Bus Adapter
Memory Address 0xE4E00000-0xE4EFFFFFFF	Intel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xE4E00000-0xE4EFFFFFFF	PCI standard PCI-to-PCI bridge


```

Memory Address 0xA0000-0xFFFF PCI bus
Memory Address 0xA0000-0xFFFF UNISYS Console Manager 3

Memory Address 0xDC000000-0xE0FFFFFF PCI bus
Memory Address 0xDC000000-0xE0FFFFFF Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xDC000000-0xE0FFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xDC000000-0xE0FFFFFF Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xDFE00000-0xDFEFFFFFF Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xDFE00000-0xDFEFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xDD000000-0xDDFFFFFF Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xDD000000-0xDDFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xDD000000-0xDDFFFFFF Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xEBF00000-0xEBFFFFFF Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xEBF00000-0xEBFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xEE000000-0xEEFFFFFF Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xEE000000-0xEEFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xEE000000-0xEEFFFFFF Unisys Intelligent Fibre Channel
Fabric Bus Adapter

[DMA]

Resource Device Status
Channel 4 Direct memory access controller OK

[Forced Hardware]

Device PNP Device ID

[I/O]

Resource Device Status
0x00000000-0x00001FFF PCI bus OK
0x00000000-0x00001FFF Direct memory access controller OK
0x00000800-0x0000081F Intel(R) 82801DB/DBM USB Universal Host Controller
- 24C2 OK
0x00000820-0x0000083F Intel(R) 82801DB/DBM USB Universal Host Controller
- 24C4 OK
0x00000840-0x0000085F Intel(R) 82801DB/DBM USB Universal Host Controller
- 24C7 OK
0x00001000-0x000010FF UNISYS Console Manager 3 OK
0x000003B0-0x000003BB UNISYS Console Manager 3 OK
0x000003C0-0x000003DF UNISYS Console Manager 3 OK

```

```

0x00001110-0x0000111F Unisys BMC OK
0x00001100-0x0000110F Unisys BMC OK
0x00000010-0x0000001F Motherboard resources OK
0x00000024-0x00000025 Motherboard resources OK
0x00000028-0x00000029 Motherboard resources OK
0x0000002C-0x0000002D Motherboard resources OK
0x00000030-0x00000031 Motherboard resources OK
0x00000034-0x00000035 Motherboard resources OK
0x00000038-0x00000039 Motherboard resources OK
0x0000003C-0x0000003D Motherboard resources OK
0x00000050-0x00000053 Motherboard resources OK
0x00000060-0x00000060 Motherboard resources OK
0x00000064-0x00000064 Motherboard resources OK
0x00000072-0x00000077 Motherboard resources OK
0x00000080-0x00000080 Motherboard resources OK
0x00000090-0x0000009F Motherboard resources OK
0x000000A4-0x000000A5 Motherboard resources OK
0x000000A8-0x000000A9 Motherboard resources OK
0x000000AC-0x000000AD Motherboard resources OK
0x000000B0-0x000000B5 Motherboard resources OK
0x000000B8-0x000000B9 Motherboard resources OK
0x000000BC-0x000000BD Motherboard resources OK
0x0000002E-0x0000002F Motherboard resources OK
0x000004D0-0x000004D1 Motherboard resources OK
0x00000CF9-0x00000CF9 Motherboard resources OK
0x00000D00-0x00000D7F Motherboard resources OK
0x00000E80-0x00000EBF Motherboard resources OK
0x00001300-0x0000133F Motherboard resources OK
0x000013F8-0x000013FF Motherboard resources OK
0x00001454-0x00001454 Motherboard resources OK
0x000014D4-0x000014D4 Motherboard resources OK
0x00001500-0x0000157F Motherboard resources OK
0x000023F8-0x000023FF Motherboard resources OK
0x00000081-0x0000008F Direct memory access controller OK
0x000000C0-0x000000DF Direct memory access controller OK
0x000000F0-0x000000FE Numeric data processor OK
0x00000020-0x00000021 Programmable interrupt controller OK
0x000000A0-0x000000A1 Programmable interrupt controller OK
0x00000070-0x00000071 System CMOS/real time clock OK
0x00000061-0x00000061 System speaker OK
0x00000040-0x00000043 System timer OK
0x000003F8-0x000003FF Communications Port (COM1) OK
0x00000880-0x0000088F Intel(R) 82801DB Ultra ATA Storage Controller-24CB
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
0x00000860-0x0000087F Intel(R) 82801DB/DBM SMBus Controller - 24C3 OK

0x00002000-0x00002FFF PCI bus OK
0x00002000-0x00002FFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0x00002000-0x00002FFF Adaptec ASC-48300 SAS/SATA Host Adapter OK

0x00003000-0x0000FFFF PCI bus OK
0x00003000-0x0000FFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

```

```

0x00003000-0x0000FFFF Intel(R) PRO/1000 MT Dual Port Network Connection #2 OK
0x00003040-0x0000307F Intel(R) PRO/1000 MT Dual Port Network Connection OK

```

[IRQs]

```

Resource      Device Status
IRQ 9  Microsoft ACPI-Compliant System          OK
IRQ 16 Intel(R) 82801DB/DBM USB Universal Host Controller - 24C2 OK
IRQ 19 Intel(R) 82801DB/DBM USB Universal Host Controller - 24C4 OK
IRQ 18 Intel(R) 82801DB/DBM USB Universal Host Controller - 24C7 OK
IRQ 23 Intel(R) 82801DB/DBM USB 2.0 Enhanced Host Controller - 24CD OK
IRQ 22 Texas Instruments OHCI Compliant IEEE 1394 Host Controller OK
IRQ 13 Numeric data processor OK
IRQ 8  System CMOS/real time clock OK
IRQ 0  System timer OK
IRQ 4  Communications Port (COM1) OK
IRQ 14 Primary IDE Channel OK
IRQ 15 Secondary IDE Channel OK
IRQ 10 Intel(R) 82801DB/DBM SMBus Controller - 24C3 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
IRQ 48 Adaptec ASC-48300 SAS/SATA Host Adapter OK
IRQ 72 Intel(R) PRO/1000 MT Dual Port Network Connection #2 OK
IRQ 73 Intel(R) PRO/1000 MT Dual Port Network Connection OK
IRQ 96 Emulex LP 10000 - Unisys VI OK
IRQ 97 Emulex LP 10000 - Unisys VI OK
IRQ 120 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
IRQ 144 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
IRQ 168 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
IRQ 192 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
IRQ 672 Emulex LP 10000 - Unisys VI OK
IRQ 673 Emulex LP 10000 - Unisys VI OK
IRQ 696 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
IRQ 720 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
IRQ 744 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
IRQ 768 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK

```

[Memory]

```

Resource      Device Status
0xA0000-0xFFFF PCI bus OK
0xA0000-0xFFFF UNISYS Console Manager 3 OK
0xF500000-0xF7FFFFFF PCI bus OK

```

```

0xF7FFFC00-0xF7FFFFFF Intel(R) 82801DB/DBM USB 2.0 Enhanced Host Controller - 24CD OK
0xF6000000-0xF6FFFFFF UNISYS Console Manager 3 OK
0xF7EFFF00-0xF7EFFFFF UNISYS Console Manager 3 OK
0xF7EFE800-0xF7EFFFFF Texas Instruments OHCI Compliant IEEE 1394 Host Controller OK
0xF7EF8000-0xF7EFBFFF Texas Instruments OHCI Compliant IEEE 1394 Host Controller OK
0xF7EFC000-0xF7EFCFFF Unisys BMC OK
0xF7EFD000-0xF7EFDFFF Unisys BMC OK
0xC0000-0xFFFF Motherboard resources OK
0xF7FFF800-0xF7FFBFFF Intel(R) 82801DB Ultra ATA Storage Controller-24CB OK
0xF3000000-0xF4FFFFFF PCI bus OK
0xF4F00000-0xF4FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK
0xF3F00000-0xF3FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK
0xF4FC0000-0xF4FFFFFF Adaptec ASC-48300 SAS/SATA Host Adapter OK
0xF3FE0000-0xF3FFFFFF Adaptec ASC-48300 SAS/SATA Host Adapter OK
0xF1000000-0xF2FFFFFF PCI bus OK
0xF2F00000-0xF2FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK
0xF2FE0000-0xF2FFFFFF Intel(R) PRO/1000 MT Dual Port Network Connection #2 OK
0xF2FC0000-0xF2FDFFFF Intel(R) PRO/1000 MT Dual Port Network Connection OK
0xF2E00000-0xF2EFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK
0xF1F00000-0xF1FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK
0xF2EFE000-0xF2EFEFFF Emulex LP 10000 - Unisys VI OK
0xF2EFFC00-0xF2EFFF00 Emulex LP 10000 - Unisys VI OK
0xF2EFD000-0xF2EFDFFF Emulex LP 10000 - Unisys VI OK
0xF2EFF800-0xF2EFF8FF Emulex LP 10000 - Unisys VI OK
0xF1FFFC00-0xF1FFF000 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
0xED000000-0xF0FFFFFF PCI bus OK
0xED000000-0xF0FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK
0xED000000-0xF0FFFFFF PCI standard PCI-to-PCI bridge OK
0xED000000-0xF0FFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
0xF0F00000-0xF0FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK
0xF0F00000-0xF0FFFFFF PCI standard PCI-to-PCI bridge OK
0xEE000000-0xEEFFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK
0xEE000000-0xEEFFFFFF PCI standard PCI-to-PCI bridge OK
0xEE000000-0xEEFFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
0xF0FFF000-0xF0FFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
0xEEFFFC00-0xEEFFF000 Intel(R) P64H2 PCI Hot Plug Controller - 1462 OK
0xF0E00000-0xF0EFFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

```

```

0xF0E00000-0xF0EFFFFFF PCI standard PCI-to-PCI bridge OK
0xF0EFF000-0xF0EFFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xEDFFFC00-0xEDFFFCFF Intel(R) P64H2 PCI Hot Plug Controller - 1462
OK
0xE8000000-0xECFFFFFF PCI bus OK
0xE8000000-0xECFFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xE8000000-0xECFFFFFF PCI standard PCI-to-PCI bridge OK
0xE8000000-0xECFFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xEBF00000-0xEBFFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xEBF00000-0xEBFFFFFF PCI standard PCI-to-PCI bridge OK
0xE9000000-0xE9FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xE9000000-0xE9FFFFFF PCI standard PCI-to-PCI bridge OK
0xE9000000-0xE9FFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xEBFFF000-0xEBFFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xE9FFFC00-0xE9FFFCFF Intel(R) P64H2 PCI Hot Plug Controller - 1462
OK
0xEBE00000-0xEBEFFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xEBE00000-0xEBEFFFFFF PCI standard PCI-to-PCI bridge OK
0xEBEFF000-0xEBEFFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xE8FFFC00-0xE8FFFCFF Intel(R) P64H2 PCI Hot Plug Controller - 1462
OK
0xE5000000-0xE7FFFFFF PCI bus OK
0xE6F00000-0xE6FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xE5F00000-0xE5FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xE6FFE000-0xE6FFFFFF Emulex LP 10000 - Unisys VI OK
0xE6FFFC00-0xE6FFFCFF Emulex LP 10000 - Unisys VI OK
0xE6FFD000-0xE6FFDFFF Emulex LP 10000 - Unisys VI OK
0xE6FFF800-0xE6FFF8FF Emulex LP 10000 - Unisys VI OK
0xE5FFFC00-0xE5FFFCFF Intel(R) P64H2 PCI Hot Plug Controller - 1462
OK
0xE1000000-0xE4FFFFFF PCI bus OK
0xE1000000-0xE4FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xE1000000-0xE4FFFFFF PCI standard PCI-to-PCI bridge OK
0xE1000000-0xE4FFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xE4F00000-0xE4FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xE4F00000-0xE4FFFFFF PCI standard PCI-to-PCI bridge OK
0xE2000000-0xE2FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xE2000000-0xE2FFFFFF PCI standard PCI-to-PCI bridge OK
0xE2000000-0xE2FFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xE4FFF000-0xE4FFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xE2FFFC00-0xE2FFFCFF Intel(R) P64H2 PCI Hot Plug Controller - 1462
OK

```

```

0xE4E00000-0xE4EFFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xE4E00000-0xE4EFFFFFF PCI standard PCI-to-PCI bridge OK
0xE4EFF000-0xE4EFFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xE1FFFC00-0xE1FFFCFF Intel(R) P64H2 PCI Hot Plug Controller - 1462
OK
0xDC000000-0xE0FFFFFF PCI bus OK
0xDC000000-0xE0FFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xDC000000-0xE0FFFFFF PCI standard PCI-to-PCI bridge OK
0xDC000000-0xE0FFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xDFF00000-0xDFFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xDFF00000-0xDFFFFFF PCI standard PCI-to-PCI bridge OK
0xDD000000-0xDDFFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xDD000000-0xDDFFFFFF PCI standard PCI-to-PCI bridge OK
0xDD000000-0xDDFFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xDFFF0000-0xDFFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xDDFFFC00-0xDDFFFCFF Intel(R) P64H2 PCI Hot Plug Controller - 1462
OK
0xDFE00000-0xDFEFFFFFF Intel(R) P64H2 PCI to PCI Bridge - 1460 OK

0xDFE00000-0xDFEFFFFFF PCI standard PCI-to-PCI bridge OK
0xDFEFF000-0xDFEFFFFFF Unisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xDCFFFC00-0xDCFFFCFF Intel(R) P64H2 PCI Hot Plug Controller - 1462
OK

```

[Components]

[Multimedia]

[Audio Codecs]

CODEC	Manufacturer	Description	Status	File	Version	Size
		Creation Date				
c:\windows\system32\imaadp32.acm	Microsoft Corporation		OK			
	C:\WINDOWS\system32\IMAADP32.ACM	5.2.3790.1830				
(srv03_sp1_rtm.050324-1447)	24.00 KB (24,576 bytes)	3/25/2005				
11:00 AM						
c:\windows\system32\msadp32.acm	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSADP32.ACM	5.2.3790.1830				
(srv03_sp1_rtm.050324-1447)	23.50 KB (24,064 bytes)	3/25/2005				
11:00 AM						
c:\windows\system32\msg711.acm	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSG711.ACM	5.2.3790.1830				
(srv03_sp1_rtm.050324-1447)	13.50 KB (13,824 bytes)	3/25/2005				
11:00 AM						
c:\windows\system32\msgsm32.acm	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSGSM32.ACM	5.2.3790.1830				

```
(srv03_sp1_rtm.050324-1447) 34.50 KB (35,328 bytes) 3/25/2005
11:00 AM
c:\windows\system32\tsoft32.acm DSP GROUP, INC. OK
C:\WINDOWS\system32\TSSOFT32.ACM 1.01 13.50 KB (13,824
bytes) 3/25/2005 11:00 AM
```

[Video Codecs]

CODEC	Manufacturer	Description	Status	File	Version	Size
		Creation Date				
c:\windows\system32\msyuv.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\MSYUV.DLL		5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	21.00 KB (21,504 bytes)	3/24/2005 9:21 AM
c:\windows\system32\msvidc32.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\MSVIDC32.DLL		5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	43.00 KB (44,032 bytes)	3/25/2005 11:00 AM
c:\windows\system32\iyuv_32.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\IYUV_32.DLL		5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	52.50 KB (53,760 bytes)	3/24/2005 9:19 AM
c:\windows\system32\tsbyuv.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\TSBYUV.DLL		5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	12.50 KB (12,800 bytes)	3/24/2005 9:34 AM
c:\windows\system32\msrle32.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\MSRLE32.DLL		5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	15.50 KB (15,872 bytes)	3/25/2005 11:00 AM

[CD-ROM]

```
Item Value
Drive D:
Description CD-ROM Drive
Media Loaded No
Media Type CD-ROM
Name TOSHIBA CD/DVDW SD-R6472
Manufacturer (Standard CD-ROM drives)
Status OK
Transfer Rate Not Available
SCSI Target ID 0
PNP Device ID IDE\CDROMTOSHIBA_CD/DVDW_SD-
R6472_____TR50____\355A3134313231303837202020202020202020
```

[Sound Device]

```
Item Value
```

[Display]

```
Item Value
Name UNISYS Console Manager 3
PNP Device ID
PCI\VEN_1002&DEV_4C52&SUBSYS_C2201018&REV_64\4&29817089&0&08F0
```

```
Adapter Type ATI MACH64, Unisys Corporation compatible
Adapter Description UNISYS Console Manager 3
```

```
Adapter RAM 4.00 MB (4,194,304 bytes)
Installed Drivers vga.dll,cm3disp.dll
Driver Version 8.0.0.25
INF File oem1.inf (cm3 section)
Color Planes 1
Color Table Entries 65536
Resolution 1024 x 768 x 60 hertz
Bits/Pixel 16
Memory Address 0xF6000000-0xF6FFFFFF
I/O Port 0x00001000-0x000010FF
Memory Address 0xF7E00000-0xF7EFFFFF
Memory Address 0xA00000-0xFFFFF
I/O Port 0x000003B0-0x000003BB
I/O Port 0x000003C0-0x000003DF
```

[Infrared]

```
Item Value
```

[Input]

[Keyboard]

```
Item Value
Description USB Human Interface Device
Name Enhanced (101- or 102-key)
Layout 00000409
PNP Device ID USB\VID_0557&PID_2221&MI_00\6&14CD2FAC&0&0000
Number of Function Keys 12
```

[Pointing Device]

```
Item Value
Hardware Type USB Human Interface Device
Number of Buttons 5
Status OK
PNP Device ID USB\VID_0557&PID_2221&MI_01\6&14CD2FAC&0&0001
Power Management Supported No
Double Click Threshold 6
Handedness Right Handed Operation
```

[Modem]

```
Item Value
```

[Network]

[Adapter]

```
Item Value
Name [00000001] Intel(R) PRO/1000 MT Dual Port Network Connection
Adapter Type Ethernet 802.3
Product Type Intel(R) PRO/1000 MT Dual Port Network Connection
Installed Yes
```

PNP Device ID
PCI\VEN_8086&DEV_1079&SUBSYS_10798086&REV_03\4&226B0D81&0&09E8

Last Reset 1/23/2006 8:06 PM
Index 1
Service Name E1000
IP Address 0.0.0.0
IP Subnet 0.0.0.0
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 08:00:0B:1E:1A:19
Memory Address 0xF2FC0000-0xF2FDFFFF
I/O Port 0x00003040-0x0000307F
IRQ Channel IRQ 73

Name [00000002] Intel(R) PRO/1000 MT Dual Port Network Connection

Adapter Type Ethernet 802.3
Product Type Intel(R) PRO/1000 MT Dual Port Network Connection
Installed Yes
PNP Device ID
PCI\VEN_8086&DEV_1079&SUBSYS_10798086&REV_03\4&226B0D81&0&08E8

Last Reset 1/23/2006 8:06 PM
Index 2
Service Name E1000
IP Address 192.59.13.7
IP Subnet 255.255.255.0
Default IP Gateway 192.59.13.250
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 08:00:0B:1E:1A:18
Memory Address 0xF2FE0000-0xF2FFFFFF
I/O Port 0x00003000-0x0000FFFF
IRQ Channel IRQ 72

Name [00000003] 1394 Net Adapter
Adapter Type Not Available
Product Type 1394 Net Adapter
Installed Yes
PNP Device ID V1394\NIC1394\CD00008000B00
Last Reset 1/23/2006 8:06 PM
Index 3
Service Name NIC1394
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000004] RAS Async Adapter

Adapter Type Not Available
Product Type RAS Async Adapter
Installed Yes
PNP Device ID Not Available
Last Reset 1/23/2006 8:06 PM
Index 4
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 [00000005] WAN Miniport (L2TP)
Adapter Type Not Available
Product Type WAN Miniport (L2TP)
Installed Yes
PNP Device ID ROOT\MS_L2TPMINIPOINT\0000
Last Reset 1/23/2006 8:06 PM
Index 5
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

Name [00000006] WAN Miniport (PPTP)
Adapter Type Wide Area Network (WAN)
Product Type WAN Miniport (PPTP)
Installed Yes
PNP Device ID ROOT\MS_PPTPMINIPOINT\0000
Last Reset 1/23/2006 8:06 PM
Index 6
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

Name [00000007] WAN Miniport (PPPOE)
Adapter Type Wide Area Network (WAN)
Product Type WAN Miniport (PPPOE)
Installed Yes
PNP Device ID ROOT\MS_PPPOEMINIPOINT\0000
Last Reset 1/23/2006 8:06 PM
Index 7
Service Name RasPppoe
IP Address Not Available

IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 33:50:6F:45:30:30

Name [00000008] Direct Parallel
Adapter Type Not Available
Product Type Direct Parallel
Installed Yes
PNP Device ID ROOT\MS_PTMINIPORT\0000
Last Reset 1/23/2006 8:06 PM
Index 8
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

Name [00000009] WAN Miniport (IP)
Adapter Type Not Available
Product Type WAN Miniport (IP)
Installed Yes
PNP Device ID ROOT\MS_NDISWANIP\0000
Last Reset 1/23/2006 8:06 PM
Index 9
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

Name [00000010] Console Manager Network Connection
Adapter Type Not Available
Product Type Console Manager Network Connection
Installed Yes
PNP Device ID USB\VID_0432&PID_0012\5&2873F1A0&0&1
Last Reset 1/23/2006 8:06 PM
Index 10
Service Name USB_RNDIS
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

[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

[WinSock]

Item Value
 File c:\windows\system32\wsock32.dll
 Size 24.50 KB (25,088 bytes)
 Version 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)

[Ports]

[Serial]

Item Value
 Name Communications Port (COM1)
 Status OK
 PNP Device ID ACPI\PNP0501\15
 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
 I/O Port 0x000003F8-0x000003FF
 IRQ Channel IRQ 4

[Parallel]

Item Value

[Storage]

[Drives]

Item Value
 Drive C:
 Description Local Fixed Disk
 Compressed No
 File System NTFS
 Size 33.89 GB (36,388,605,952 bytes)
 Free Space 11.40 GB (12,245,856,256 bytes)
 Volume Name
 Volume Serial Number 7C3C1A2B

Drive D:
 Description CD-ROM Disc

[Disks]

Item Value
 Description Disk drive
 Manufacturer (Standard disk drives)
 Model ADAPTEC RAID 1 SCSI Disk Device
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 1
 SCSI Bus 7
 SCSI Logical Unit 0
 SCSI Port 3
 SCSI Target ID 0
 Sectors/Track 63
 Size 33.90 GB (36,396,864,000 bytes)
 Total Cylinders 4,425
 Total Sectors 71,087,625
 Total Tracks 1,128,375
 Tracks/Cylinder 255
 Partition Disk #0, Partition #0
 Partition Size 33.89 GB (36,388,606,464 bytes)

Partition Starting Offset 32,256 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model DGC RAID 10 0206
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 70
Sectors/Track 63
Size 637.17 GB (684,154,114,560 bytes)
Total Cylinders 83,177
Total Sectors 1,336,238,505
Total Tracks 21,210,135
Tracks/Cylinder 255
Partition Disk #2, Partition #0
Partition Size 637.17 GB (684,154,082,304 bytes)
Partition Starting Offset 32,256 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model DGC RAID 10 0206
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 71
Sectors/Track 63
Size 668.23 GB (717,507,624,960 bytes)
Total Cylinders 87,232
Total Sectors 1,401,382,080
Total Tracks 22,244,160
Tracks/Cylinder 255
Partition Disk #1, Partition #0
Partition Size 668.23 GB (717,507,592,704 bytes)
Partition Starting Offset 32,256 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 0
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040

Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #72, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #72, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #72, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #72, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 1
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #71, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #71, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #71, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #71, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 2
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616

Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #70, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #70, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #70, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #70, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 3
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #69, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #69, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #69, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #69, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 4
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)

Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #68, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #68, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #68, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #68, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 5
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #67, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #67, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #67, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #67, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 6
Sectors/Track 63

Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #66, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #66, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #66, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #66, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 7
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #65, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #65, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #65, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #65, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 8

Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #64, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #64, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #64, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #64, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 9
 Sectors/Track 63
 Size 239.26 GB (256,900,170,240 bytes)
 Total Cylinders 31,233
 Total Sectors 501,758,145
 Total Tracks 7,964,415
 Tracks/Cylinder 255
 Partition Disk #63, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #63, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #63, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #63, Partition #3
 Partition Size 202.15 GB (217,056,913,920 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0

SCSI Target ID 60
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #12, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #12, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #12, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #12, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 61
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #11, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #11, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #11, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #11, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0

SCSI Port 0
SCSI Target ID 62
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #10, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #10, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #10, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #10, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 63
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #9, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #9, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #9, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #9, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0

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SCSI Logical Unit      0
SCSI Port              0
SCSI Target ID        64
Sectors/Track         63
Size                  119.62 GB (128,445,972,480 bytes)
Total Cylinders        15,616
Total Sectors         250,871,040
Total Tracks          3,982,080
Tracks/Cylinder       255
Partition              Disk #8, Partition #0
Partition Size         11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition              Disk #8, Partition #1
Partition Size         16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition              Disk #8, Partition #2
Partition Size         8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition              Disk #8, Partition #3
Partition Size         82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

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Description           Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer           Unisys Corporation
Model UNISYS          VirtualStorage 01.0
Bytes/Sector           512
Media Loaded           Yes
Media Type              Fixed hard disk
Partitions             4
SCSI Bus               0
SCSI Logical Unit      0
SCSI Port              0
SCSI Target ID        65
Sectors/Track         63
Size                  119.62 GB (128,445,972,480 bytes)
Total Cylinders        15,616
Total Sectors         250,871,040
Total Tracks          3,982,080
Tracks/Cylinder       255
Partition              Disk #7, Partition #0
Partition Size         11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition              Disk #7, Partition #1
Partition Size         16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition              Disk #7, Partition #2
Partition Size         8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition              Disk #7, Partition #3
Partition Size         82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

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Description           Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer           Unisys Corporation
Model UNISYS          VirtualStorage 01.0
Bytes/Sector           512
Media Loaded           Yes
Media Type              Fixed hard disk
Partitions             4

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SCSI Bus              0
SCSI Logical Unit      0
SCSI Port              0
SCSI Target ID        66
Sectors/Track         63
Size                  119.62 GB (128,445,972,480 bytes)
Total Cylinders        15,616
Total Sectors         250,871,040
Total Tracks          3,982,080
Tracks/Cylinder       255
Partition              Disk #6, Partition #0
Partition Size         11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition              Disk #6, Partition #1
Partition Size         16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition              Disk #6, Partition #2
Partition Size         8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition              Disk #6, Partition #3
Partition Size         82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

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Description           Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer           Unisys Corporation
Model UNISYS          VirtualStorage 01.0
Bytes/Sector           512
Media Loaded           Yes
Media Type              Fixed hard disk
Partitions             4
SCSI Bus               0
SCSI Logical Unit      0
SCSI Port              0
SCSI Target ID        67
Sectors/Track         63
Size                  119.62 GB (128,445,972,480 bytes)
Total Cylinders        15,616
Total Sectors         250,871,040
Total Tracks          3,982,080
Tracks/Cylinder       255
Partition              Disk #5, Partition #0
Partition Size         11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition              Disk #5, Partition #1
Partition Size         16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition              Disk #5, Partition #2
Partition Size         8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition              Disk #5, Partition #3
Partition Size         82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

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Description           Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer           Unisys Corporation
Model UNISYS          VirtualStorage 01.0
Bytes/Sector           512
Media Loaded           Yes
Media Type              Fixed hard disk

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Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 68
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #4, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #4, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #4, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #4, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 69
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #3, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #3, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #3, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #3, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes

Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 50
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #22, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #22, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #22, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #22, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 51
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #21, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #21, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #21, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #21, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512

Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 52
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #20, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #20, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #20, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #20, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 53
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #19, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #19, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #19, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #19, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0

Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 54
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #18, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #18, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #18, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #18, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 55
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #17, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #17, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #17, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #17, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation

Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 59
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #13, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #13, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #13, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #13, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 56
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #16, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #16, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #16, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #16, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver

Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 57
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #15, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #15, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #15, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #15, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 58
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #14, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #14, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #14, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #14, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 40
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #32, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #32, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #32, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #32, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 41
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #31, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #31, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #31, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #31, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 42
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #30, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #30, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #30, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #30, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 43
 Sectors/Track 63
 Size 239.26 GB (256,900,170,240 bytes)
 Total Cylinders 31,233
 Total Sectors 501,758,145
 Total Tracks 7,964,415
 Tracks/Cylinder 255
 Partition Disk #29, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #29, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #29, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #29, Partition #3
 Partition Size 202.15 GB (217,056,913,920 bytes)

Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 44
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #28, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #28, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #28, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #28, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 45
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #27, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #27, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #27, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #27, Partition #3

Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 46
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #26, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #26, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #26, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #26, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 47
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #25, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #25, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #25, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes

Partition Disk #25, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 48
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #24, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #24, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #24, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #24, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 49
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #23, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #23, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #23, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)

Partition Starting Offset 30,491,112,960 bytes
Partition Disk #23, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 20
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #52, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #52, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #52, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #52, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 21
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #51, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #51, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #51, Partition #2

Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #51, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 22
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #50, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #50, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #50, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #50, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 23
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #49, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #49, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes

Partition Disk #49, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #49, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 24
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #48, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #48, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #48, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #48, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 25
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #47, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #47, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)

Partition Starting Offset 12,280,343,040 bytes
Partition Disk #47, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #47, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 29
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #43, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #43, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #43, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #43, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 26
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #46, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #46, Partition #1

Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #46, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #46, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 27
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #45, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #45, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #45, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #45, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 28
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #44, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes

Partition Disk #44, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #44, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #44, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 10
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #62, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #62, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #62, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #62, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 11
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #61, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)

Partition Starting Offset 32,256 bytes
 Partition Disk #61, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #61, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #61, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 12
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #60, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #60, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #60, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #60, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 13
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #59, Partition #0

Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #59, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #59, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #59, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 14
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #58, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #58, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #58, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #58, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 15
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255

Partition Disk #57, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #57, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #57, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #57, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 16
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #56, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #56, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #56, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #56, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 17
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080

Tracks/Cylinder 255
 Partition Disk #55, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #55, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #55, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #55, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 18
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #54, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #54, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #54, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #54, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 19
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040

Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #53, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #53, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #53, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #53, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 30
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #42, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #42, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #42, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #42, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 31
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616

Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #41, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #41, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #41, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #41, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 32
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #40, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #40, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #40, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #40, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 33
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)

Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #39, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #39, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #39, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #39, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 34
 Sectors/Track 63
 Size 119.62 GB (128,445,972,480 bytes)
 Total Cylinders 15,616
 Total Sectors 250,871,040
 Total Tracks 3,982,080
 Tracks/Cylinder 255
 Partition Disk #38, Partition #0
 Partition Size 11.44 GB (12,280,310,784 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #38, Partition #1
 Partition Size 16.96 GB (18,210,769,920 bytes)
 Partition Starting Offset 12,280,343,040 bytes
 Partition Disk #38, Partition #2
 Partition Size 8.70 GB (9,343,918,080 bytes)
 Partition Starting Offset 30,491,112,960 bytes
 Partition Disk #38, Partition #3
 Partition Size 82.53 GB (88,610,941,440 bytes)
 Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 35
 Sectors/Track 63

Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #37, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #37, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #37, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #37, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 36
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #36, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #36, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #36, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #36, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 37

Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #35, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #35, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #35, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #35, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 38
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #34, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #34, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #34, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #34, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0

SCSI Target ID 39
Sectors/Track 63
Size 119.62 GB (128,445,972,480 bytes)
Total Cylinders 15,616
Total Sectors 250,871,040
Total Tracks 3,982,080
Tracks/Cylinder 255
Partition Disk #33, Partition #0
Partition Size 11.44 GB (12,280,310,784 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #33, Partition #1
Partition Size 16.96 GB (18,210,769,920 bytes)
Partition Starting Offset 12,280,343,040 bytes
Partition Disk #33, Partition #2
Partition Size 8.70 GB (9,343,918,080 bytes)
Partition Starting Offset 30,491,112,960 bytes
Partition Disk #33, Partition #3
Partition Size 82.53 GB (88,610,941,440 bytes)
Partition Starting Offset 39,835,031,040 bytes

[SCSI]

Item Value
Name Adaptec ASC-48300 SAS/SATA Host Adapter
Manufacturer Adaptec
Status OK
PNP Device ID
PCI\VEN_9005&DEV_0410&SUBSYS_04109005&REV_08\4&2AAD566B&0&08F8
Memory Address 0xF4FC0000-0xF4FFFFFF
Memory Address 0xF3FE0000-0xF3FFFFFF
I/O Port 0x00002000-0x00002FFF
IRQ Channel IRQ 48
Name Adaptec Processor Device (Pseudo)
Manufacturer Adaptec
Status OK
PNP Device ID
SCSI\PROCESSOR&VEN_ADAPTEC&PROD_HOSTRAID&REV_1.0\5&344567F4&0&77E0
Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&35728DA7&0&0008E8
Memory Address 0xEE000000-0xEEFFFFFF
Memory Address 0xF0FFF000-0xF0FFFFFF
IRQ Channel IRQ 120
Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&17F7F795&0&0008F8
Memory Address 0xED000000-0xF0FFFFFF
Memory Address 0xF0EFF000-0xF0EFFFFF

IRQ Channel IRQ 144
Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&63CB3C2&0&0008E8
Memory Address 0xE9000000-0xE9FFFFFF
Memory Address 0xEBFFF000-0xEBFFFFFF
IRQ Channel IRQ 168
Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&34FD2864&0&0008F8
Memory Address 0xE8000000-0xECFFFFFF
Memory Address 0xEBEFF000-0xEBFFFFFF
IRQ Channel IRQ 192
Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&11E963DD&0&0008E8
Memory Address 0xE2000000-0xE2FFFFFF
Memory Address 0xE4FFF000-0xE4FFFFFF
IRQ Channel IRQ 696
Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&4A36EF4&0&0008F8
Memory Address 0xE1000000-0xE4FFFFFF
Memory Address 0xE4EFF000-0xE4EFFFFF
IRQ Channel IRQ 720
Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&274DCB0&0&0008E8
Memory Address 0xDD000000-0xDDFFFFFF
Memory Address 0xDFFFF000-0xDFFFFFFF
IRQ Channel IRQ 744
Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&2BC6862C&0&0008F8
Memory Address 0xDC000000-0xE0FFFFFF

Memory Address 0xDFFFFFF00-0xDFFFFFFF
IRQ Channel IRQ 768

[IDE]

Item Value
Name Intel(R) 82801DB Ultra ATA Storage Controller-24CB
Manufacturer Intel
Status OK
PNP Device ID
PCI\VEN_8086&DEV_24CB&SUBSYS_24C28086&REV_02\3&267A616A&0&F9

I/O Port 0x00000880-0x0000088F
Memory Address 0xF7FFF800-0xF7FFFBFF

Name Primary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device ID PCI\IDE\IDECHANNEL\4&291FD35B&0&0
I/O Port 0x000001F0-0x000001F7
I/O Port 0x000003F6-0x000003F6
IRQ Channel IRQ 14

Name Secondary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device ID PCI\IDE\IDECHANNEL\4&291FD35B&0&1
I/O Port 0x00000170-0x00000177
I/O Port 0x00000376-0x00000376
IRQ Channel IRQ 15

[Printing]

Name Driver Port Name Server Name

[Problem Devices]

Device PNP Device ID Error Code
Console Manager Network Connection USB\VID_0432&PID_0012\5&2873F1A0&0&1
This device is disabled.
1394 Net Adapter V1394\NIC1394\CD00008000B00 This device is disabled.
Intel(R) P64H2 PCI to PCI Bridge - 1460
PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&13C0B0C5&0&E8
This device cannot start.
Intel(R) P64H2 PCI to PCI Bridge - 1460
PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&3BCEF44&0&E8 This device cannot start.
Not Available ACPI\UNO4500\0 The drivers for this device are not installed.
Not Available ACPI\UNO4501\0 The drivers for this device are not installed.

[USB]

Device PNP Device ID
Intel(R) 82801DB/DBM USB Universal Host Controller - 24C2
PCI\VEN_8086&DEV_24C2&SUBSYS_24C28086&REV_02\3&267A616A&0&E8

Intel(R) 82801DB/DBM USB Universal Host Controller - 24C4
PCI\VEN_8086&DEV_24C4&SUBSYS_24C28086&REV_02\3&267A616A&0&E9

Intel(R) 82801DB/DBM USB Universal Host Controller - 24C7
PCI\VEN_8086&DEV_24C7&SUBSYS_24C28086&REV_02\3&267A616A&0&EA

Intel(R) 82801DB/DBM USB 2.0 Enhanced Host Controller - 24CD
PCI\VEN_8086&DEV_24CD&SUBSYS_24C08086&REV_02\3&267A616A&0&EF

[Software Environment]

[System Drivers]

Name	Description	File	Type	Started	Start Mode	State	Status
	Error Control	Accept	Pause	Accept	Stop		
abiosdsk	Abiosdsk		Not Available	Kernel Driver	No		
	Disabled	Stopped	OK	Ignore	No	No	
acpi	Microsoft ACPI Driver	c:\windows\system32\drivers\acpi.sys	Kernel Driver	Yes	Boot	Running	OK
acpiec	ACPIEC	c:\windows\system32\drivers\acpiec.sys	Kernel Driver	No	Disabled	Stopped	OK
adp94xx	adp94xx	c:\windows\system32\drivers\adp94xx.sys	Kernel Driver	Yes	Boot	Running	OK
adpu160m	adpu160m		Not Available	Kernel Driver	No		
	Disabled	Stopped	OK	Normal	No	No	
adpu320	adpu320		Not Available	Kernel Driver	No	Disabled	
	Stopped	OK	Normal	No	No		
afd	AFD	c:\windows\system32\drivers\afd.sys	Kernel Driver	Yes	System	Running	OK
	System	Running	OK	Normal	No	Yes	
aic78u2	aic78u2		Not Available	Kernel Driver	No	Disabled	
	Stopped	OK	Normal	No	No		
aic78xx	aic78xx		Not Available	Kernel Driver	No	Disabled	
	Stopped	OK	Normal	No	No		
aliide	AliIde		Not Available	Kernel Driver	No	Disabled	
	Stopped	OK	Normal	No	No		
amdide	AmdIde		Not Available	Kernel Driver	No	Disabled	
	Stopped	OK	Normal	No	No		
arc	arc		Not Available	Kernel Driver	No	Disabled	
	Stopped	OK	Normal	No	No		
arp1394	1394 ARP Client Protocol						
	Manual	Stopped	OK	Normal	No	No	
asyncmac	RAS Asynchronous Media Driver						
	Manual	Stopped	OK	Normal	No	No	
atapi	Standard IDE/ESDI Hard Disk Controller						
	Running	OK	Normal	No	Yes		
atdisk	Atdisk		Not Available	Kernel Driver	No	Disabled	
	Stopped	OK	Ignore	No	No		
atmarpc	ATM ARP Client Protocol						
	Manual	Stopped	OK	Normal	No	No	
audstub	Audio Stub Driver						
	Kernel Driver	Yes	Manual	Running	OK	Normal	No
	Kernel Driver	Yes	Manual	Running	OK	Normal	Yes

```

beep Beep c:\windows\system32\drivers\beep.sys Kernel Driver Yes
System Running OK Normal No Yes
cdac15ba CdaC15BA c:\windows\system32\drivers\cdac15ba.sys
Kernel Driver Yes Auto Running OK Normal No Yes

cdad10ba CdaD10BA c:\windows\system32\drivers\cdad10ba.sys
Kernel Driver Yes Auto Running OK Normal No Yes

cdfs Cdfs c:\windows\system32\drivers\cdfs.sys File System Driver
Yes Disabled Running OK Normal No Yes
cdrom CD-ROM Driver c:\windows\system32\drivers\cdrom.sys Kernel Driver
Yes System Running OK Normal No Yes
changer Changer Not Available Kernel Driver No System Stopped OK
Ignore No No
clusdisk Cluster Disk Driver
c:\windows\system32\drivers\clusdisk.sys Kernel Driver No
Disabled Stopped OK Normal No No
cm3 cm3 c:\windows\system32\drivers\cm3mini.sys Kernel Driver
Yes Manual Running OK Ignore No Yes
cmdide CmdIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No
cpqccissm cpqccissm Not Available Kernel Driver No
Disabled Stopped OK Normal No No
crcdisk CRC Disk Filter Driver c:\windows\system32\drivers\crcdisk.sys
Kernel Driver Yes Boot Running OK Normal No Yes

dfsdriver DfsDriver c:\windows\system32\drivers\dfs.sys File
System Driver Yes Boot Running OK Normal No Yes
disk Disk Driver c:\windows\system32\drivers\disk.sys Kernel Driver
Yes Boot Running OK Normal No Yes
dmboot dmboot c:\windows\system32\drivers\dmboot.sys Kernel Driver
No Disabled Stopped OK Normal No No
dmio Logical Disk Manager Driver c:\windows\system32\drivers\dmio.sys
Kernel Driver Yes Boot Running OK Normal No Yes

dmload dmload c:\windows\system32\drivers\dmload.sys Kernel Driver
Yes Boot Running OK Normal No Yes
dpti2o dpti2o Not Available Kernel Driver No Disabled
Stopped OK Normal No No
e1000 Intel(R) PRO/1000 Device Driver
c:\windows\system32\drivers\elg5132e.sys Kernel Driver Yes
Manual Running OK Normal No Yes
elxadjct elxadjct c:\windows\system32\drivers\elxadjct.sys
Kernel Driver Yes Boot Running OK Normal No Yes

elxstor elxstor c:\windows\system32\drivers\elxstor.sys Kernel Driver
Yes Boot Running OK Normal No Yes
em em \\?\c:\windows\system32\drivers\em.sys Kernel Driver
Yes Manual Running OK Normal No Yes
fastfat Fastfat c:\windows\system32\drivers\fastfat.sys File System
Driver No Disabled Stopped OK Normal No No
fdc Fdc c:\windows\system32\drivers\fdc.sys Kernel Driver No
System Stopped OK Ignore No No
fips Fips c:\windows\system32\drivers\fips.sys Kernel Driver Yes
System Running OK Normal No Yes
flpydisk Flpydisk c:\windows\system32\drivers\flpydisk.sys
Kernel Driver No System Stopped OK Ignore No No

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```

fltmgr FltMgr c:\windows\system32\drivers\fltmgr.sys File System
Driver Yes Boot Running OK Normal No Yes
ftdisk Volume Manager Driver c:\windows\system32\drivers\ftdisk.sys
Kernel Driver Yes Boot Running OK Normal No Yes

gpc Generic Packet Classifier
c:\windows\system32\drivers\msgpc.sys Kernel Driver Yes Manual
Running OK Normal No Yes
hidusb Microsoft HID Class Driver
c:\windows\system32\drivers\hidusb.sys Kernel Driver Yes
Manual Running OK Ignore No Yes
hpciss hpciss Not Available Kernel Driver No Disabled
Stopped OK Normal No No
http HTTP c:\windows\system32\drivers\http.sys Kernel Driver No
Manual Stopped OK Normal No No
i2omgmt i2omgmt Not Available Kernel Driver No System Stopped OK
Normal No No
ifba Unisys Intelligent Fibre Channel Adapter SCSI Processor
c:\windows\system32\drivers\ifba.sys Kernel Driver Yes Manual
Running OK Normal No Yes
ifdisk Unisys Intelligent Fibre Channel Fabric Disk Driver
c:\windows\system32\drivers\ifdisk.sys Kernel Driver Yes
System Running OK Normal No Yes
ifip Unisys Intelligent Fibre Channel Fabric Bus Enumerator
c:\windows\system32\drivers\ifip.sys Kernel Driver Yes Boot
Running OK Normal No Yes
ifxp Unisys Intelligent Fibre Channel Fabric Bus Adapter
c:\windows\system32\drivers\ifxp.sys Kernel Driver Yes Boot
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 Yes System
Running OK Normal No Yes
intelide IntelIde c:\windows\system32\drivers\intelide.sys
Kernel Driver Yes Boot Running OK Normal No Yes

intelppm Intel Processor Driver
c:\windows\system32\drivers\intelppm.sys Kernel Driver Yes
Manual Running OK Normal No Yes
ip6fw IPv6 Windows Firewall Driver
c:\windows\system32\drivers\ip6fw.sys Kernel Driver No Manual
Stopped OK Normal No No
ipfilterdriver IP Traffic Filter Driver
c:\windows\system32\drivers\ipfltdrv.sys Kernel Driver No
Manual Stopped OK Normal No No
ipinip IP in IP Tunnel Driver c:\windows\system32\drivers\ipinip.sys
Kernel Driver No Manual Stopped OK Normal No No

ipnat IP Network Address Translator
c:\windows\system32\drivers\ipnat.sys Kernel Driver No Manual
Stopped OK Normal No No
ipsec IPSEC driver c:\windows\system32\drivers\ipsec.sys Kernel Driver
Yes System Running OK Normal No Yes
isapnp PnP ISA/EISA Bus Driver
c:\windows\system32\drivers\isapnp.sys Kernel Driver Yes
Boot Running OK Critical No Yes

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kbdclass Keyboard Class Driver
c:\windows\system32\drivers\kbdclass.sys Kernel Driver Yes
System Running OK Normal No Yes
kbdhid Keyboard HID Driver c:\windows\system32\drivers\kbdhid.sys
Kernel Driver Yes System Running OK Ignore No Yes
kldbgdrv kldbgdrv \??\c:\windows\system32\kldbgdrv.sys Kernel
Driver No Manual Stopped OK Normal No No
ksecdd KSecDD c:\windows\system32\drivers\ksecdd.sys Kernel Driver
Yes Boot Running OK Normal No Yes
ksthunk Kernel Streaming WOW64 Thunk Service
c:\windows\system32\drivers\ksthunk.sys Kernel Driver Yes
Manual Running OK Normal No Yes
lp6nds35 lp6nds35 Not Available Kernel Driver No
Disabled Stopped OK Normal No No
lpkdrv Kernel Driver Yes Manual Running OK Normal No Yes
mmdd c:\windows\system32\drivers\mmdd.sys Kernel Driver Yes
System Running OK Ignore No Yes
modem Modem c:\windows\system32\drivers\modem.sys Kernel Driver No
Manual Stopped OK Ignore No No
mouclass Mouse Class Driver
c:\windows\system32\drivers\mouclass.sys Kernel Driver Yes
System Running OK Normal No Yes
mouhid Mouse HID Driver c:\windows\system32\drivers\mouhid.sys
Kernel Driver Yes Manual Running OK Ignore No Yes
mountmgr Mount Point Manager
c:\windows\system32\drivers\mountmgr.sys Kernel Driver Yes
Boot Running OK Normal No Yes
mraid35x mraid35x Not Available Kernel Driver No
Disabled Stopped OK Normal No No
mrxdav WebDav Client Redirector
c:\windows\system32\drivers\mrxdav.sys File System Driver
No Manual Stopped OK Normal No No
mrxsmb MRXSMB c:\windows\system32\drivers\mrxsmb.sys File System
Driver Yes System Running OK Normal No Yes
msfs Msfs c:\windows\system32\drivers\msfs.sys File System Driver
Yes System Running OK Normal No Yes
mssmbios Microsoft System Management BIOS Driver
c:\windows\system32\drivers\mssmbios.sys Kernel Driver Yes
Manual Running OK Normal No Yes
mup Mup c:\windows\system32\drivers\mup.sys File System Driver
Yes Boot Running OK Normal No Yes
ndis NDIS System Driver c:\windows\system32\drivers\ndis.sys Kernel
Driver Yes Boot Running OK Normal No Yes
ndistapi Remote Access NDIS TAPI Driver
c:\windows\system32\drivers\ndistapi.sys Kernel Driver Yes
Manual Running OK Normal No Yes
ndisuio NDIS Usermode I/O Protocol
c:\windows\system32\drivers\ndisuio.sys Kernel Driver No
Manual Stopped OK Normal No No
ndiswan Remote Access NDIS WAN Driver
c:\windows\system32\drivers\ndiswan.sys Kernel Driver Yes
Manual Running OK Normal No Yes
ndproxy NDIS Proxy c:\windows\system32\drivers\ndproxy.sys Kernel
Driver Yes Manual Running OK Normal No Yes

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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
nic1394 1394 Net Driver c:\windows\system32\drivers\nic1394.sys
Kernel Driver No Manual 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
ohci1394 Texas Instruments OHCI Compliant IEEE 1394 Host Controller
c:\windows\system32\drivers\ohci1394.sys Kernel Driver Yes
Boot Running OK Normal No Yes
parport Parport c:\windows\system32\drivers\parport.sys Kernel Driver
No Manual Stopped OK Ignore No No
partmgr Partition Manager c:\windows\system32\drivers\partmgr.sys
Kernel Driver Yes Boot Running OK Normal No Yes
pci PCI Bus Driver c:\windows\system32\drivers\pci.sys Kernel Driver
Yes Boot Running OK Critical No Yes
pciide PCIIDE c:\windows\system32\drivers\pciide.sys Kernel Driver
Yes Boot Running OK Normal No Yes
pcmcia Pcmcia c:\windows\system32\drivers\pcmcia.sys Kernel Driver
No Disabled Stopped OK Normal No No
pdcomp PDCOMP Not Available Kernel Driver No Manual Stopped OK
Ignore No No
pdframe PDFRAME Not Available Kernel Driver No Manual Stopped OK
Ignore No No
pdreli PDRELI Not Available Kernel Driver No Manual Stopped OK
Ignore No No
pdrframe PDRFRAME Not Available Kernel Driver No Manual
Stopped OK Ignore No No
performancemonitor PerformanceMonitor
c:\windows\system32\drivers\performancemonitor.sys Kernel Driver
No Manual Stopped OK Normal No No
pptpminiport WAN Miniport (PPTP)
c:\windows\system32\drivers\raspttp.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
ql2300 ql2300 Not Available Kernel Driver No Disabled
Stopped OK Normal No No
rasacd Remote Access Auto Connection Driver
c:\windows\system32\drivers\rasacd.sys Kernel Driver Yes
System Running OK Normal No Yes
rasl2tp WAN Miniport (L2TP) c:\windows\system32\drivers\rasl2tp.sys
Kernel Driver Yes Manual Running OK Normal No Yes
rasppoe Remote Access PPOE Driver
c:\windows\system32\drivers\rasppoe.sys Kernel Driver Yes
Manual Running OK Normal No Yes

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raspti Direct Parallel c:\windows\system32\drivers\raspti.sys
Kernel Driver Yes Manual Running OK Normal No Yes

rdbss Rdbss c:\windows\system32\drivers\rdbss.sys File System Driver
Yes System Running OK Normal No Yes

rdpcdd RDPCCD 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 Security Driver c:\windows\system32\drivers\secdrv.sys
Kernel Driver Yes Auto Running OK Normal No Yes

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 Manual Running OK Ignore No Yes

sfloppy High-Capacity Floppy Disk Drive
c:\windows\system32\drivers\sfloppy.sys Kernel Driver No
Manual Stopped OK Normal No No

simbad Simbad 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

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

tbdriver TbDriver c:\windows\system32\drivers\tbdriver.sys
Kernel Driver Yes Boot Running OK Normal No Yes

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

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update Microcode Update Driver
c:\windows\system32\drivers\update.sys Kernel Driver Yes
Manual Running OK Normal No Yes

usbccgp Microsoft USB Generic Parent Driver
c:\windows\system32\drivers\usbccgp.sys Kernel Driver Yes
Manual Running OK Normal No Yes

usbhci Microsoft USB 2.0 Enhanced Host Controller Miniport Driver
c:\windows\system32\drivers\usbhci.sys Kernel Driver Yes
Manual Running OK Normal No Yes

usbhub USB2 Enabled Hub c:\windows\system32\drivers\usbhub.sys
Kernel Driver Yes Manual Running OK Normal No Yes

usbstor USB Mass Storage Driver
c:\windows\system32\drivers\usbstor.sys Kernel Driver No
Manual Stopped OK Normal No No

usbuhci Microsoft USB Universal Host Controller Miniport Driver
c:\windows\system32\drivers\usbuhci.sys Kernel Driver Yes
Manual Running OK Normal No Yes

usb_rndis USB Remote NDIS Network Device Driver
c:\windows\system32\drivers\usb8023.sys Kernel Driver No
Manual Stopped OK Normal No No

vga vga c:\windows\system32\drivers\vgapnp.sys Kernel Driver
No Manual Stopped OK Ignore No No

vgasave VGA Display Controller. c:\windows\system32\drivers\vga.sys
Kernel Driver Yes System Running OK Ignore No Yes

viaide ViaIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No

volsnap Storage volumes c:\windows\system32\drivers\volsnap.sys
Kernel Driver Yes Boot Running OK Normal No Yes

wanarp Remote Access IP ARP Driver
c:\windows\system32\drivers\wanarp.sys Kernel Driver Yes
Manual Running OK Normal No Yes

wdica WDICA Not Available Kernel Driver No Manual Stopped OK
Ignore No No

wlbs Network Load Balancing c:\windows\system32\drivers\wlbs.sys Kernel
Driver No Manual Stopped OK Normal No No

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[Signed Drivers]

Device Name	Signed	Device Class	Driver Version	Driver Date
Unisys Intelligent Fibre Channel Fabric Disk Driver	Yes	Fabric Disk Driver	2.58.0.7	7/26/2004
Not Available				
SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&062B008610				
00001000000000000000000000000000				
Unisys Intelligent Fibre Channel Fabric Disk Driver	Yes	Fabric Disk Driver	2.58.0.7	7/26/2004
Not Available				
SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&062B008610				
00001000000000000000000000000000				
Unisys Intelligent Fibre Channel Fabric Disk Driver	Yes	Fabric Disk Driver	2.58.0.7	7/26/2004
Not Available				
SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&062B008610				
00001000000000000000000000000000				

Microcode Update Device (Standard system devices)	No	SYSTEM	5.2.3790.1830	10/1/2002	machine.inf	Not Available	TbDriver	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\SYSTEM\0001							Not Available	Not Available	Not Available	Not Available	
Plug and Play Software Device Enumerator	No	SYSTEM	5.2.3790.1830	10/1/2002	machine.inf	Not Available	Security Driver	Not Available	LEGACYDRIVER	Not Available	Not Available
Available	ROOT\SYSTEM\0000						Not Available	Not Available	Not Available	Not Available	
Terminal Server Mouse Driver (Standard system devices)	No	SYSTEM	5.2.3790.1830	10/1/2002	machine.inf	Not Available	RDPWD	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\RDP_MOU\0000							Not Available	Not Available	Not Available	ROOT\LEGACY_RDPWD\0000	
Terminal Server Keyboard Driver	No	SYSTEM	5.2.3790.1830	10/1/2002	machine.inf	Not Available	RDPCDD	Not Available	LEGACYDRIVER	Not Available	Not Available
Available	ROOT\RDP_KBD\0000						Not Available	Not Available	Not Available	ROOT\LEGACY_RDPCDD\0000	
Terminal Server Device Redirector	No	SYSTEM	5.2.3790.1830	10/1/2002	machine.inf	Not Available	Remote Access Auto Connection Driver	Not Available	LEGACYDRIVER	Not Available	Not Available
Available	ROOT\RDPDR\0000						Not Available	Not Available	Not Available	Not Available	
Direct Parallel	No	NET	5.2.3790.1830	10/1/2002	Microsoft netrasa.inf	Not Available	PerformanceMonitor	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MS_PTMINIPORT\0000							Not Available	Not Available	Not Available	Not Available	
WAN Miniport (PPTP)	No	NET	5.2.3790.1830	10/1/2002	Microsoft netrasa.inf	Not Available	PCIIde	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MS_PPTPMINIPORT\0000							Not Available	Not Available	Not Available	ROOT\LEGACY_PCIIIDE\0000	
WAN Miniport (PPPOE)	No	NET	5.2.3790.1830	10/1/2002	Microsoft netrasa.inf	Not Available	Partition Manager	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MS_PPPOEMINIPORT\0000							Not Available	Not Available	Not Available	Not Available	
WAN Miniport (IP)	No	NET	5.2.3790.1830	10/1/2002	Microsoft netrasa.inf	Not Available	Null	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MS_NDISWANIP\0000							Not Available	Not Available	Not Available	ROOT\LEGACY_NULL\0000	
WAN Miniport (L2TP)	No	NET	5.2.3790.1830	10/1/2002	Microsoft netrasa.inf	Not Available	NetBios over Tcpip	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MS_L2TPMINIPORT\0000							Not Available	Not Available	Not Available	Not Available	
Video Codecs (Standard system devices)	No	MEDIA	5.2.3790.1830	10/1/2002	wave.inf	Not Available	NDProxy	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MEDIA\MS_MMVID							Not Available	Not Available	Not Available	ROOT\LEGACY_NDPROXY\0000	
Legacy Video Capture Devices (Standard system devices)	No	MEDIA	5.2.3790.1830	10/1/2002	wave.inf	Not Available	NDIS Usermode I/O Protocol	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MEDIA\MS_MMVCD							Not Available	Not Available	Not Available	Not Available	
Media Control Devices (Standard system devices)	No	MEDIA	5.2.3790.1830	10/1/2002	wave.inf	Not Available	Remote Access NDIS TAPI Driver	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MEDIA\MS_MMMCI							Not Available	Not Available	Not Available	Not Available	
Legacy Audio Drivers (Standard system devices)	No	MEDIA	5.2.3790.1830	10/1/2002	wave.inf	Not Available	NDIS System Driver	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MEDIA\MS_MMDRV							Not Available	Not Available	Not Available	Not Available	
Audio Codecs (Standard system devices)	No	MEDIA	5.2.3790.1830	10/1/2002	wave.inf	Not Available	mountmgr	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\MEDIA\MS_MMACM							Not Available	Not Available	Not Available	Not Available	
Remote Access IP ARP Driver	Not Available	LEGACYDRIVER					mnmdd	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\LEGACY_WANARP\0000							Not Available	Not Available	Not Available	Not Available	
volsnap	Not Available	LEGACYDRIVER					ksecdd	Not Available	LEGACYDRIVER	Not Available	Not Available
Available	Not Available	Not Available					Not Available	Not Available	Not Available	Not Available	
VGA Display Controller.	Not Available	LEGACYDRIVER					kldbgdrv	Not Available	LEGACYDRIVER	Not Available	Not Available
ROOT\LEGACY_VGASAVE\0000							Not Available	Not Available	Not Available	Not Available	
TDTCP	Not Available	LEGACYDRIVER					IPSEC driver	Not Available	LEGACYDRIVER	Not Available	Not Available
Available	Not Available	Not Available					Not Available	Not Available	Not Available	Not Available	
TCP/IP Protocol Driver	Not Available	LEGACYDRIVER					IP Network Address Translator	Not Available	LEGACYDRIVER	Not Available	Not Available
Available	Not Available	Not Available					Not Available	Not Available	Not Available	Not Available	
ROOT\LEGACY_TCPIP\0000							HTTP	Not Available	LEGACYDRIVER	Not Available	Not Available
							Available	Not Available	Not Available	Not Available	Not Available
							Available	Not Available	Not Available	Not Available	Not Available

Generic Packet Classifier Not Available LEGACYDRIVER Not Available
 Not Available Not Available Not Available Not Available
 ROOT\LEGACY_GPC\0000

Fips Not Available LEGACYDRIVER Not Available Not Available Not Available
 Available Not Available Not Available ROOT\LEGACY_FIPS\0000
 em Not Available LEGACYDRIVER Not Available Not Available Not Available
 Available Not Available Not Available ROOT\LEGACY_EM\0000
 elxstor Not Available LEGACYDRIVER Not Available Not Available Not Available
 Available Not Available Not Available ROOT\LEGACY_ELXSTOR\0000

elxadjct Not Available LEGACYDRIVER Not Available Not Available
 Not Available Not Available Not Available
 ROOT\LEGACY_ELXADJCT\0000

dmload Not Available LEGACYDRIVER Not Available Not Available Not Available
 Available Not Available Not Available ROOT\LEGACY_DMLOAD\0000

dmboot Not Available LEGACYDRIVER Not Available Not Available Not Available
 Available Not Available Not Available ROOT\LEGACY_DMBOOT\0000

CRC Disk Filter Driver Not Available LEGACYDRIVER Not Available Not Available
 Available Not Available Not Available Not Available
 ROOT\LEGACY_CRCDISK\0000

CdaD10BA Not Available LEGACYDRIVER Not Available Not Available
 Not Available Not Available Not Available Not Available
 ROOT\LEGACY_CDAD10BA\0000

CdaC15BA Not Available LEGACYDRIVER Not Available Not Available
 Not Available Not Available Not Available
 ROOT\LEGACY_CDAC15BA\0000

Beep Not Available LEGACYDRIVER Not Available Not Available Not Available
 Available Not Available Not Available ROOT\LEGACY_BEEP\0000

1394 ARP Client Protocol Not Available LEGACYDRIVER Not Available
 Not Available Not Available Not Available Not Available
 ROOT\LEGACY_ARP1394\0000

AFD Not Available LEGACYDRIVER Not Available Not Available Not Available
 Available Not Available Not Available ROOT\LEGACY_AFD\0000

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD281176OFFSET9465A5600LENGTH
 14A19FAA00

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD281176OFFSET719697600LENGTH
 22CF0E000

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD281176OFFSET2DBF72A00LENGTH
 43D724C00

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD281176OFFSET7E00LENGTH2DBF6
 AC00

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD281174OFFSET9465A5600LENGTH
 14A19FAA00

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD281174OFFSET719697600LENGTH
 22CF0E000

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD281174OFFSET2DBF72A00LENGTH
 43D724C00

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD281174OFFSET7E00LENGTH2DBF6
 AC00

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD28117A0FFSET9465A5600LENGTH
 14A19FAA00

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD28117A0FFSET719697600LENGTH
 22CF0E000

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATUREAD28117A0FFSET2DBF72A00LENGTH
 43D724C00

Generic volume No VOLUME 5.2.3790.1830 10/1/2002 Microsoft
 volume.inf Not Available
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1200
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Logical Disk Manager No SYSTEM 5.2.3790.1830 10/1/2002
(Standard system devices) machine.inf  Not Available
ROOT\DMIO\0000

ACPI Fixed Feature Button No SYSTEM 5.2.3790.1830 10/1/2002
(Standard system devices) machine.inf  Not Available
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Intel Processor No PROCESSOR 5.2.3790.1830 10/1/2002
Intel cpu.inf Not Available ACPI\GENUINEINTEL_-
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Intel cpu.inf Not Available ACPI\GENUINEINTEL_-
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Intel(R) P64H2 PCI Hot Plug Controller - 1462 No SYSTEM
5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
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Unisys Intelligent Fibre Channel Adapter SCSI Processor No SYSTEM
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Unisys Intelligent Fibre Channel Fabric Bus Adapter No SCSIADAPTER
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PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3790.1830
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Intel(R) P64H2 PCI to PCI Bridge - 1460 No SYSTEM 5.2.3790.1830
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Intel(R) P64H2 I/O Advanced Programmable Interrupt Controller - 1461
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Unisys Intelligent Fibre Channel Adapter SCSI Processor No SYSTEM
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Unisys Intelligent Fibre Channel Adapter SCSI Processor No SYSTEM
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Emulex LP 10000 - Unisys VI No UNISYS_VI Not Available Not
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Unisys Intelligent Fibre Channel Adapter SCSI Processor No SYSTEM
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Intel(R) P64H2 PCI Hot Plug Controller - 1462 No SYSTEM
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Unisys Intelligent Fibre Channel Adapter SCSI Processor No SYSTEM
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Emulex LP 10000 - Unisys VI No UNISYS_VI Not Available Not Available Emulex oem12.inf Not Available PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\4&28BE6AA6&0&09F8

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Intel(R) PRO/1000 MT Dual Port Network Connection No NET 8.1.8.0 10/1/2002 Intel netelg3e.inf Not Available PCI\VEN_8086&DEV_1079&SUBSYS_10798086&REV_03\4&226B0D81&0&08E8

Intel(R) P64H2 PCI to PCI Bridge - 1460 No SYSTEM 5.2.3790.1830 10/1/2002 Intel machine.inf Not Available PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&1070020&0&E8

Intel(R) P64H2 I/O Advanced Programmable Interrupt Controller - 1461 No SYSTEM 5.2.3790.1830 10/1/2002 Intel machine.inf Not Available PCI\VEN_8086&DEV_1461&SUBSYS_00000000&REV_04\3&1070020&0&E0

PCI bus No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\2

Adaptec Processor Device (Pseudo) No SCSIADAPTER 1.0.317.627 4/28/2005 Adaptec oem0.inf Not Available SCSI\PROCESSOR&VEN_ADAPTEC&PROD_HOSTRAID&REV_1.0\5&344567F4&0&77E0

Disk drive No DISKDRIVE 5.2.3790.1830 10/1/2002 (Standard disk drives) disk.inf Not Available SCSI\DISK&VEN_ADAPTEC&PROD_RAID_1&REV_1.0\5&344567F4&0&700

Adaptec ASC-48300 SAS/SATA Host Adapter No SCSIADAPTER 1.0.317.627 4/28/2005 Adaptec oem0.inf Not Available PCI\VEN_9005&DEV_0410&SUBSYS_04109005&REV_08\4&2AAD566B&0&08F8

Intel(R) P64H2 PCI to PCI Bridge - 1460 No SYSTEM 5.2.3790.1830 10/1/2002 Intel machine.inf Not Available PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&13C0B0C5&0&F8

Intel(R) P64H2 I/O Advanced Programmable Interrupt Controller - 1461 No SYSTEM 5.2.3790.1830 10/1/2002 Intel machine.inf Not Available PCI\VEN_8086&DEV_1461&SUBSYS_00000000&REV_04\3&13C0B0C5&0&F0

Intel(R) P64H2 PCI to PCI Bridge - 1460 No SYSTEM 5.2.3790.1830 10/1/2002 Intel machine.inf Not Available PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&13C0B0C5&0&E8

Intel(R) P64H2 I/O Advanced Programmable Interrupt Controller - 1461 No SYSTEM 5.2.3790.1830 10/1/2002 Intel machine.inf Not Available PCI\VEN_8086&DEV_1461&SUBSYS_00000000&REV_04\3&13C0B0C5&0&E0

PCI bus No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\1

Intel(R) 82801DB/DBM SMBus Controller - 24C3 No SYSTEM 5.2.3790.1830 10/1/2002 Intel machine.inf Not Available PCI\VEN_8086&DEV_24C3&SUBSYS_24C28086&REV_02\3&267A616A&0&FB

Secondary IDE Channel No HDC 5.2.3790.1830 10/1/2002 (Standard IDE ATA/ATAPI controllers) mshdc.inf Not Available PCIIDE\IDECHANNEL\4&291FD35B&0&1

CD-ROM Drive No CDROM 5.2.3790.1830 10/1/2002 (Standard CD-ROM drives) cdrom.inf Not Available IDE\CDROMTOSHIBA_CD\DVDW_SDR6472_____TR50_____\355A31343132313038372020202020202020

Primary IDE Channel No HDC 5.2.3790.1830 10/1/2002 (Standard IDE ATA/ATAPI controllers) mshdc.inf Not Available PCIIDE\IDECHANNEL\4&291FD35B&0&0

Intel(R) 82801DB Ultra ATA Storage Controller-24CB No HDC 5.2.3790.1830 10/1/2002 Intel mshdc.inf Not Available PCI\VEN_8086&DEV_24CB&SUBSYS_24C28086&REV_02\3&267A616A&0&F9

Communications Port No PORTS 5.2.3790.1830 10/1/2002 (Standard port types) msports.inf Not Available ACPI\PNP0501\15

Generic Bus No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A05\2

System timer No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0100\14

System speaker No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0800\14

System CMOS/real time clock No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0B00\14

Programmable interrupt controller No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0000\14

Numeric data processor No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0C04\14

Direct memory access controller No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0200\1E

Motherboard resources No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0C02\0

Intel(R) 82801DB LPC Interface Controller - 24C0 No SYSTEM 5.2.3790.1830 10/1/2002 Intel machine.inf Not Available PCI\VEN_8086&DEV_24C0&SUBSYS_00000000&REV_02\3&267A616A&0&F8


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Unisys BMC No SYSTEM 1.0.0.12 5/11/2005 Unisys
Corporation oem3.inf Not Available
PCI\VEN_1018&DEV_C310&SUBSYS_C3101018&REV_00\4&29817089&0&18F0

1394 Net Adapter No NET 5.2.3790.1830 10/1/2002
Microsoft net1394.inf Not Available
V1394\NIC1394\CD00008000B00
Texas Instruments OHCI Compliant IEEE 1394 Host Controller No 1394
5.2.3790.1830 10/1/2002 Texas Instruments 1394.inf
Not Available
PCI\VEN_104C&DEV_8023&SUBSYS_8023104C&REV_00\4&29817089&0&10F0

Default Monitor No MONITOR 5.2.3790.1830 10/1/2002
(Standard monitor types) monitor.inf Not Available
DISPLAY\DEFAULT_MONITOR\5&39915350&0&22446688&01&01
UNISYS Console Manager 3 No DISPLAY 8.0.0.25 6/28/2005
Unisys Corporation oem1.inf Not Available
PCI\VEN_1002&DEV_4C52&SUBSYS_C2201018&REV_64\4&29817089&0&08F0

Intel(R) 82801 PCI Bridge - 244E No SYSTEM 5.2.3790.1830
10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_244E&SUBSYS_00000000&REV_82\3&267A616A&0&F0

USB Root Hub No USB 5.2.3790.1830 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
USB\ROOT_HUB20\4&1EC5C38A&0
Intel(R) 82801DB/DBM USB 2.0 Enhanced Host Controller - 24CD No
USB 5.2.3790.1830 10/1/2002 Intel usbport.inf Not
Available
PCI\VEN_8086&DEV_24CD&SUBSYS_24C08086&REV_02\3&267A616A&0&EF

HID-compliant mouse No MOUSE 5.2.3790.1830 10/1/2002
Microsoft msmouse.inf Not Available
HID\VID_0557&PID_2221&MI_01\7&1236125D&0&0000
USB Human Interface Device No HIDCLASS 5.2.3790.1830
10/1/2002 (Standard system devices) input.inf Not
Available USB\VID_0557&PID_2221&MI_01\6&14CD2FAC&0&0001
HID Keyboard Device No KEYBOARD 5.2.3790.1830 10/1/2002
(Standard keyboards) keyboard.inf Not Available
HID\VID_0557&PID_2221&MI_00\7&360D501F&0&0000
USB Human Interface Device No HIDCLASS 5.2.3790.1830
10/1/2002 (Standard system devices) input.inf Not
Available USB\VID_0557&PID_2221&MI_00\6&14CD2FAC&0&0000
USB Composite Device No USB 5.2.3790.1830 10/1/2002
(Standard USB Host Controller) usb.inf Not Available
USB\VID_0557&PID_2221\5&DE732DA&0&1
USB Root Hub No USB 5.2.3790.1830 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
USB\ROOT_HUB4&354A38F3&0
Intel(R) 82801DB/DBM USB Universal Host Controller - 24C7 No USB
5.2.3790.1830 10/1/2002 Intel usbport.inf Not Available
PCI\VEN_8086&DEV_24C7&SUBSYS_24C28086&REV_02\3&267A616A&0&EA

Console Manager Network Connection No NET 8.0.0.13
5/17/2005 Unisys Corporation oem2.inf Not Available
USB\VID_0432&PID_0012\5&2873F1A0&0&1
USB Root Hub No USB 5.2.3790.1830 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
USB\ROOT_HUB4&2498C13B&0

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Intel(R) 82801DB/DBM USB Universal Host Controller - 24C4 No USB
5.2.3790.1830 10/1/2002 Intel usbport.inf Not Available
PCI\VEN_8086&DEV_24C4&SUBSYS_24C28086&REV_02\3&267A616A&0&E9

USB Root Hub No USB 5.2.3790.1830 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
USB\ROOT_HUB4&2699692C&0
Intel(R) 82801DB/DBM USB Universal Host Controller - 24C2 No USB
5.2.3790.1830 10/1/2002 Intel usbport.inf Not Available
PCI\VEN_8086&DEV_24C2&SUBSYS_24C28086&REV_02\3&267A616A&0&E8

PCI bus No SYSTEM 5.2.3790.1830 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\0
Microsoft ACPI-Compliant System No SYSTEM 5.2.3790.1830
10/1/2002 Microsoft acpi.inf Not Available
ACPI_HAL\PNP0C08\0
ACPI Multiprocessor x64-based PC No COMPUTER 5.2.3790.1830
10/1/2002 (Standard computers) hal.inf Not Available
ROOT\ACPI_HAL\0000
Not Available Not Available Not Available Not Available Not Available
Not Available Not Available Not Available HTREE\ROOT\0

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[Environment Variables]

Variable	Value	User Name
ComSpec	%SystemRoot%\system32\cmd.exe	<SYSTEM>
Path	%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;C:\Program Files (x86)\Microsoft SQL Server\80\Tools\Binn\;C:\Program Files\Microsoft SQL Server\90\Tools\Binn\;C:\Program Files (x86)\Microsoft SQL Server\90\Tools\Binn\;C:\Program Files (x86)\Microsoft SQL Server\90\DTS\Binn\;C:\Program Files (x86)\Microsoft SQL Server\90\Tools\Binn\VSShell\Common7\IDE\;C:\Program Files (x86)\Microsoft Visual Studio 8\Common7\IDE\PrivateAssemblies\	<SYSTEM>
windir	%SystemRoot%	<SYSTEM>
FP_NO_HOST_CHECK	NO	<SYSTEM>
OS	Windows_NT	<SYSTEM>
PROCESSOR_ARCHITECTURE	AMD64	<SYSTEM>
PROCESSOR_LEVEL	15	<SYSTEM>
PROCESSOR_IDENTIFIER	EM64T Family 15 Model 4 Stepping 8, GenuineIntel	<SYSTEM>
PROCESSOR_REVISION	0408	<SYSTEM>
NUMBER_OF_PROCESSORS	32	<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>
lib	C:\Program Files\SQLXML 4.0\bin\	<SYSTEM>
TEMP	%USERPROFILE%\Local Settings\Temp	NT AUTHORITY\SYSTEM
TMP	%USERPROFILE%\Local Settings\Temp	NT AUTHORITY\SYSTEM
TMP	%USERPROFILE%\Local Settings\Temp	NT AUTHORITY\LOCAL SERVICE
TMP	%USERPROFILE%\Local Settings\Temp	NT AUTHORITY\LOCAL SERVICE
TMP	%USERPROFILE%\Local Settings\Temp	NT AUTHORITY\NETWORK SERVICE
TMP	%USERPROFILE%\Local Settings\Temp	NT AUTHORITY\NETWORK SERVICE

TEMP %USERPROFILE%\Local Settings\Temp TPCC-ZORRO\Administrator
 TMP %USERPROFILE%\Local Settings\Temp TPCC-ZORRO\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
Data Type	Name	Host Print Queue				

[Network Connections]

Local Name	Remote Name	Type	Status	User Name
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[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
Available	Not Available	Not Available	Not Available	Not Available	Not Available
system	Not Available	4	8	0	1413120 Not Available Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available
smss.exe	Not Available	704	11	204800	1413120 1/23/2006 8:11 PM
PM	Not Available	Not Available	Not Available	Not Available	Not Available
csrss.exe	Not Available	864	13	Not Available	Not Available
	1/23/2006 8:11 PM	Not Available	Not Available	Not Available	Not Available
winlogon.exe	c:\windows\system32\winlogon.exe	904	13	204800	1413120 1/23/2006 8:11 PM
	1413120 1/23/2006 8:11 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	901.00 KB (922,624 bytes)	3/25/2005 11:00 AM
services.exe	c:\windows\system32\services.exe	1000	9	204800	1413120 1/23/2006 8:11 PM
	1413120 1/23/2006 8:11 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	216.50 KB (221,696 bytes)	3/25/2005 11:00 AM
lsass.exe	c:\windows\system32\lsass.exe	1012	9	204800	1413120 1/23/2006 8:11 PM
	1413120 1/23/2006 8:11 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	14.00 KB (14,336 bytes)	3/25/2005 11:00 AM
svchost.exe	c:\windows\system32\svchost.exe	612	8	204800	1413120 1/23/2006 8:11 PM
	1413120 1/23/2006 8:11 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	24.50 KB (25,088 bytes)	3/25/2005 11:00 AM
svchost.exe	Not Available	1072	8	Not Available	Not Available
	1/23/2006 8:11 PM	Not Available	Not Available	Not Available	Not Available
svchost.exe	c:\windows\system32\svchost.exe	1136	8	204800	1413120 1/23/2006 8:11 PM
	1413120 1/23/2006 8:11 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	24.50 KB (25,088 bytes)	3/25/2005 11:00 AM
mmmsrv.exe	c:\windows\syswow64\mmmsrv.exe	1232	8	204800	1413120 1/23/2006 8:11 PM
	1413120 1/23/2006 8:11 PM	5.2.3790.1830		32.00 KB (32,768 bytes)	7/21/2005 2:26 PM
svchost.exe	Not Available	1616	8	Not Available	Not Available
	1/23/2006 8:11 PM	Not Available	Not Available	Not Available	Not Available
rundll32.exe	c:\windows\system32\rundll32.exe	1640	8	204800	1413120 1/23/2006 8:11 PM
	1413120 1/23/2006 8:11 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	36.50 KB (37,376 bytes)	3/25/2005 11:00 AM

svchost.exe	c:\windows\system32\svchost.exe	1728	8	204800	1413120 1/23/2006 8:11 PM
	1413120 1/23/2006 8:11 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	24.50 KB (25,088 bytes)	3/25/2005 11:00 AM
csrss.exe	Not Available	624	13	Not Available	Not Available
	1/23/2006 8:12 PM	Not Available	Not Available	Not Available	Not Available
winlogon.exe	c:\windows\system32\winlogon.exe	716	13	204800	1413120 1/23/2006 8:12 PM
	1413120 1/23/2006 8:12 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	901.00 KB (922,624 bytes)	3/25/2005 11:00 AM
wmiprvse.exe	Not Available	1868	8	Not Available	Not Available
	1/23/2006 8:12 PM	Not Available	Not Available	Not Available	Not Available
rdpclip.exe	c:\windows\system32\rdpclip.exe	2016	8	204800	1413120 1/23/2006 8:13 PM
	1413120 1/23/2006 8:13 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	99.00 KB (101,376 bytes)	7/21/2005 2:24 PM
explorer.exe	c:\windows\explorer.exe	1628	8	204800	1413120 1/23/2006 8:13 PM
	1413120 1/23/2006 8:13 PM	6.00.3790.1830	(srv03_sp1_rtm.050324-1447)	1.30 MB (1,364,480 bytes)	3/25/2005 11:00 AM
explorer.exe	c:\windows\explorer.exe	1996	8	204800	1413120 1/23/2006 8:13 PM
	1413120 1/23/2006 8:13 PM	6.00.3790.1830	(srv03_sp1_rtm.050324-1447)	1.30 MB (1,364,480 bytes)	3/25/2005 11:00 AM
cmd.exe	c:\windows\system32\cmd.exe	2896	8	204800	1413120 1/23/2006 8:13 PM
	1413120 1/23/2006 8:13 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	538.50 KB (551,424 bytes)	3/25/2005 11:00 AM
sqlservr.exe	c:\program files\microsoft sql server\mssql.1\mssql\bin\sqlservr.exe	2924	13	204800	1413120 1/23/2006 8:13 PM
	1413120 1/23/2006 8:13 PM	2005.090.2007.00		34.88 MB (36,570,624 bytes)	1/19/2006 4:31 PM
cmd.exe	c:\windows\system32\cmd.exe	1696	8	204800	1413120 1/23/2006 8:16 PM
	1413120 1/23/2006 8:16 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	538.50 KB (551,424 bytes)	3/25/2005 11:00 AM
msftesql.exe	c:\program files\microsoft sql server\mssql.1\mssql\bin\msftesql.exe	2160	8	204800	1413120 1/23/2006 8:17 PM
	1413120 1/23/2006 8:17 PM	12.0.5626.1		152.20 KB (155,856 bytes)	8/26/2005 5:17 PM
cmd.exe	c:\windows\system32\cmd.exe	2652	8	204800	1413120 1/23/2006 8:18 PM
	1413120 1/23/2006 8:18 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	538.50 KB (551,424 bytes)	3/25/2005 11:00 AM
csccript.exe	c:\windows\system32\csccript.exe	2620	8	204800	1413120 1/23/2006 8:18 PM
	1413120 1/23/2006 8:18 PM	5.6.0.8827		127.50 KB (130,560 bytes)	3/25/2005 11:00 AM
taskmgr.exe	c:\windows\system32\taskmgr.exe	2528	13	204800	1413120 1/23/2006 8:19 PM
	1413120 1/23/2006 8:19 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	231.00 KB (236,544 bytes)	3/25/2005 11:00 AM
helpctr.exe	c:\windows\pchealth\helpctr\binaries\helpctr.exe	2916	8	204800	1413120 1/23/2006 8:20 PM
	1413120 1/23/2006 8:20 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	1.30 MB (1,363,456 bytes)	7/21/2005 2:25 PM
helpsvc.exe	c:\windows\pchealth\helpctr\binaries\helpsvc.exe	2988	8	204800	1413120 1/23/2006 8:20 PM
	1413120 1/23/2006 8:20 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	1.52 MB (1,591,296 bytes)	7/21/2005 2:25 PM
wmiprvse.exe	Not Available	1160	8	Not Available	Not Available
	1/23/2006 8:20 PM	Not Available	Not Available	Not Available	Not Available

[Loaded Modules]

Name	Version	Size	File Date	Manufacturer	Path
winlogon	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	901.00 KB (922,624 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\winlogon.exe
ntdll	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	1.20 MB (1,257,472 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\ntdll.dll
kernel32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	1.43 MB (1,500,160 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\kernel32.dll
advapi32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	1.00 MB (1,051,136 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\advapi32.dll
rpcrt4	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	1.63 MB (1,714,176 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\rpcrt4.dll
crypt32	5.131.3790.1830 (srv03_sp1_rtm.050324-1447)	1.36 MB (1,428,992 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\crypt32.dll
msasn1	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	152.50 KB (156,160 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\msasn1.dll
msvcrt	7.0.3790.1830 (srv03_sp1_rtm.050324-1447)	508.00 KB (520,192 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\msvcrt.dll
user32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	1.04 MB (1,085,952 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\user32.dll
gdi32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	592.00 KB (606,208 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\gdi32.dll
nddeapi	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	25.00 KB (25,600 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\nddeapi.dll
profmap	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	36.00 KB (36,864 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\profmap.dll
netapi32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	589.00 KB (603,136 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\netapi32.dll
userenv	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	1.02 MB (1,069,056 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\userenv.dll
psapi	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	29.00 KB (29,696 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\psapi.dll
regapi	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	108.50 KB (111,104 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\regapi.dll
secur32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	120.00 KB (122,880 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\secur32.dll
setupapi	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	1.45 MB (1,523,200 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\setupapi.dll
version	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	28.00 KB (28,672 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\version.dll

winsta	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	89.00 KB (91,136 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\winsta.dll
ws2_32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	176.50 KB (180,736 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\ws2_32.dll
ws2help	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	30.50 KB (31,232 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\ws2help.dll
msgina	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	1.14 MB (1,193,472 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\msgina.dll
shsvcs	6.00.3790.1830 (srv03_sp1_rtm.050324-1447)	193.50 KB (198,144 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\shsvcs.dll
shlwapi	6.00.3790.1830 (srv03_sp1_rtm.050324-1447)	606.50 KB (621,056 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\shlwapi.dll
sfc	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	6.00 KB (6,144 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\sfc.dll
sfc_os	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	183.50 KB (187,904 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\sfc_os.dll
wintrust	5.131.3790.1830 (srv03_sp1_rtm.050324-1447)	297.50 KB (304,640 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\wintrust.dll
imagehlp	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	57.50 KB (58,880 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\imagehlp.dll
ole32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	2.43 MB (2,543,616 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\ole32.dll
comctl32	6.0 (srv03_sp1_rtm.050324-1447)	1.51 MB (1,584,128 bytes)	7/20/2005 8:47 PM	Microsoft Corporation	c:\windows\winsxs\amd64_microsoft.windows.common-controls_6595b64144ccf1df_6.0.3790.1830_x-ww_aced72af\comctl32.dll
winscard	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	230.00 KB (235,520 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\winscard.dll
wtsapi32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	29.00 KB (29,696 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\wtsapi32.dll
sxs	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	1.91 MB (2,003,968 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\sxs.dll
winmm	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	303.50 KB (310,784 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\winmm.dll
shell32	6.00.3790.1830 (srv03_sp1_rtm.050324-1447)	10.01 MB (10,492,416 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\shell32.dll
wldap32	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	390.00 KB (399,360 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\wldap32.dll
rsaenh	5.2.3790.1830 (srv03_sp1_rtm.050324-1447)	241.96 KB (247,768 bytes)	3/25/2005 11:00 AM	Microsoft Corporation	c:\windows\system32\rsaenh.dll

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csddl 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 151.50 KB (155,136
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\csddl.dll
dimsntfy 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 28.00 KB
(28,672 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\dimsntfy.dll
wlnotify 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 148.00 KB
(151,552 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wlnotify.dll
mpr 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 115.00 KB (117,760
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\mpr.dll
oleaut32 5.2.3790.1830 1.06 MB (1,116,160 bytes) 3/25/2005
11:00 AM Microsoft Corporation c:\windows\system32\oleaut32.dll

winspool 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 247.00 KB
(252,928 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\winspool.drv
comctl32 5.82 (srv03_sp1_rtm.050324-1447) 934.50 KB (956,928
bytes) 7/20/2005 8:47 PM Microsoft Corporation
c:\windows\winsxs\amd64_microsoft.windows.common-
controls_6595b64144ccf1df_5.82.3790.1830_x-ww_4d792d2a\comctl32.dll
uxtheme 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 494.50 KB (506,368
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\uxtheme.dll
samlib 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 69.00 KB (70,656
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\samlib.dll
clbcatq 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 865.00 KB
(885,760 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\clbcatq.dll
comres 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 779.50 KB
(798,208 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\comres.dll
xpsp2res 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 2.77 MB
(2,899,456 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\xpsp2res.dll
cscui 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 441.00 KB (451,584
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\cscui.dll
ntmarta 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 222.50 KB (227,840
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\ntmarta.dll
services 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 216.50 KB
(221,696 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\services.exe
ncobjapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 80.00 KB
(81,920 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\ncobjapi.dll
msvcp60 7.0.3790.1830 (srv03_sp1_rtm.050324-1447) 919.50 KB (941,568
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msvcp60.dll
scesrv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 594.50 KB (608,768
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\scesrv.dll
authz 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 167.00 KB (171,008
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\authz.dll

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umpnpgmr 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 205.00 KB
(209,920 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\umpnpgmr.dll
eventlog 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 127.00 KB
(130,048 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\eventlog.dll
lsass 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 14.00 KB (14,336
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\lsass.exe
lsasrv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.50 MB (1,568,256
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\lsasrv.dll
ntdsapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 127.50 KB (130,560
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\ntdsapi.dll
dnsapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 297.50 KB (304,640
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\dnsapi.dll
samsrv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.01 MB (1,059,328
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\samsrv.dll
cryptdll 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 47.00 KB
(48,128 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\cryptdll.dll
msprivs 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 47.50 KB (48,640
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msprivs.dll
kerberos 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 698.00 KB
(714,752 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\kerberos.dll
msv1_0 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 253.00 KB (259,072
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msv1_0.dll
iphlpapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 177.00 KB
(181,248 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\iphlpapi.dll
netlogon 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 666.00 KB
(681,984 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\netlogon.dll
w32time 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 400.50 KB (410,112
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\w32time.dll
schannel 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 248.00 KB
(253,952 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\schannel.dll
wdigest 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 130.50 KB (133,632
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wdigest.dll
rassfm 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 36.00 KB (36,864
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\rassfm.dll
kdcsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 409.00 KB (418,816
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\kdcsvc.dll
ntdsa 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 2.81 MB (2,948,096
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\ntdsa.dll

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esent 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 2.26 MB (2,366,976
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\esent.dll
ntdsatq 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 51.00 KB (52,224
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\ntdsatq.dll
mswsock 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 478.00 KB (489,472
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\mswsock.dll
scecli 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 308.00 KB (315,392
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\scecli.dll
ws03res 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 794.00 KB (813,056
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\ws03res.dll
pstorsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 36.00 KB
(36,864 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\pstorsvc.dll
psbase 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 124.00 KB (126,976
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\psbase.dll
hnetcfg 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 561.00 KB (574,464
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\hnetcfg.dll
wshtcpip 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 29.00 KB
(29,696 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wshtcpip.dll
dssenh 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 226.96 KB (232,408
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\dssenh.dll
cryptnet 5.131.3790.1830 (srv03_sp1_rtm.050324-1447) 108.50 KB
(111,104 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\cryptnet.dll
sensapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 10.50 KB (10,752
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\sensapi.dll
cabinet 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 138.50 KB (141,824
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\cabinet.dll
svchost 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 24.50 KB (25,088
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\svchost.exe
rpcss 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 672.00 KB (688,128
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\rpcss.dll
wkssvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 221.00 KB (226,304
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wkssvc.dll
aelupsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 31.50 KB
(32,256 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\aelupsvc.dll
apphelp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 241.00 KB (246,784
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\apphelp.dll
es 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 357.00 KB
(365,568 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\es.dll

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srvsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 156.50 KB (160,256
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\srvsvc.dll
dmserver 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 36.50 KB
(37,376 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\dmserver.dll
seclogon 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 27.50 KB
(28,160 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\seclogon.dll
sens 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 63.50 KB (65,024
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\sens.dll
wmisvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 227.00 KB (232,448
bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\wmisvc.dll
vssapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.26 MB (1,320,960
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\vssapi.dll
atl 3.05.2284 96.50 KB (98,816 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\atl.dll
comsvcs 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 2.06 MB
(2,156,544 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\comsvcs.dll
rasapi32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 410.00 KB
(419,840 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\rasapi32.dll
rasman 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 95.50 KB (97,792
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\rasman.dll
tapi32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 332.50 KB (340,480
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\tapi32.dll
rtutils 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 66.00 KB (67,584
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\rtutils.dll
mprapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 154.50 KB (158,208
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\mprapi.dll
activeds 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 348.50 KB
(356,864 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\activeds.dll
adslrpc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 240.50 KB (246,272
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\adslrpc.dll
credui 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 202.00 KB (206,848
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\credui.dll
wbemcore 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.24 MB
(1,299,968 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\wbemcore.dll
esscli 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 626.50 KB (641,536
bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\esscli.dll
wbemcomn 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 524.00 KB
(536,576 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wbem\wbemcomn.dll
fastprox 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 866.50 KB
(887,296 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\fastprox.dll

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wmiutils 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 171.00 KB
(175,104 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\wmiutils.dll
repdrvfs 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 353.50 KB
(361,984 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\repdrvfs.dll
wmiprvsd 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 743.00 KB
(760,832 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\wmiprvsd.dll
wbemess 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 532.50 KB (545,280
bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\wbemess.dll
ncprov 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 73.00 KB (74,752
bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\ncprov.dll
wbemsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 58.00 KB (59,392
bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\wbemsvc.dll
wbemcons 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 65.50 KB
(67,072 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\wbemcons.dll
wiarpc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 57.00 KB (58,368
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wiarpc.dll
netman 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 457.00 KB (467,968
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\netman.dll
netshell 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 2.32 MB
(2,437,120 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\netshell.dll
clusapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 127.00 KB (130,048
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\clusapi.dll
wininet 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.13 MB (1,186,304
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wininet.dll
wzcsapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 49.00 KB (50,176
bytes) 3/24/2005 9:35 AM Microsoft Corporation
c:\windows\system32\wzcsapi.dll
wzcsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 492.00 KB (503,808
bytes) 3/24/2005 9:35 AM Microsoft Corporation
c:\windows\system32\wzcsvc.dll
wmi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 5.50 KB (5,632 bytes)
3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wmi.dll
dhcpcsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 219.00 KB
(224,256 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\dhcpcsvc.dll
rasdlg 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 859.50 KB (880,128
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\rasdlg.dll
rasadhlp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 12.00 KB
(12,288 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\rasadhlp.dll
pchsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 76.00 KB (77,824
bytes) 7/21/2005 2:25 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchsvc.dll
mmsrvc 5.2.3790.1830 32.00 KB (32,768 bytes) 7/21/2005 2:26 PM
Microsoft Corporation c:\windows\syswow64\mmsrvc.exe

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wow64 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 245.00 KB (250,880
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wow64.dll
wow64win 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 280.00 KB
(286,720 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wow64win.dll
wow64cpu 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 18.50 KB
(18,944 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wow64cpu.dll
rundll32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 36.50 KB
(37,376 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\rundll32.exe
termsrv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 354.50 KB (363,008
bytes) 7/21/2005 2:24 PM Microsoft Corporation
c:\windows\system32\termsrv.dll
icaapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 27.50 KB (28,160
bytes) 7/21/2005 2:24 PM Microsoft Corporation
c:\windows\system32\icaapi.dll
mstlsapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 187.00 KB
(191,488 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\mstlsapi.dll
rdpwsx 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 170.13 KB (174,216
bytes) 7/21/2005 2:24 PM Microsoft Corporation
c:\windows\system32\rdpwsx.dll
rdpsnd 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 25.00 KB (25,600
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\rdpsnd.dll
scredir 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 38.50 KB (39,424
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\scredir.dll
msacm32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 31.00 KB (31,744
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msacm32.drv
msacm32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 112.00 KB (114,688
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msacm32.dll
imaadp32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 24.00 KB
(24,576 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\imaadp32.acm
msadp32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 23.50 KB (24,064
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msadp32.acm
msg711 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 13.50 KB (13,824
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msg711.acm
msgsm32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 34.50 KB (35,328
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msgsm32.acm
tssoft32 1.01 13.50 KB (13,824 bytes) 3/25/2005 11:00 AM
DSP GROUP, INC. c:\windows\system32\tssoft32.acm
tsd32 1.03 24.50 KB (25,088 bytes) 3/25/2005 11:00 AM DSP
GROUP, INC. c:\windows\system32\tsd32.dll
rdpclip 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 99.00 KB (101,376
bytes) 7/21/2005 2:24 PM Microsoft Corporation
c:\windows\system32\rdpclip.exe
wsoc32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 24.50 KB (25,088
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wsoc32.dll

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urlmon 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 1.02 MB (1,074,176
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\urlmon.dll
explorer 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 1.30 MB
(1,364,480 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\explorer.exe
browseui 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 1.53 MB
(1,601,536 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\browseui.dll
shdocvw 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 2.30 MB (2,416,128
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\shdocvw.dll
cryptui 5.131.3790.1830 (srv03_sp1_rtm.050324-1447) 705.50 KB (722,432
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\cryptui.dll
themeui 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 530.50 KB (543,232
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\themeui.dll
msimg32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 6.50 KB (6,656 bytes)
3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msimg32.dll
actxprxy 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 220.50 KB
(225,792 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\actxprxy.dll
linkinfo 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 30.00 KB
(30,720 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\linkinfo.dll
ntshrui 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 184.00 KB (188,416
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\ntshrui.dll
drprov 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 24.00 KB (24,576
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\drprov.dll
ntlanman 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 71.50 KB
(73,216 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\ntlanman.dll
netui0 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 130.00 KB (133,120
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\netui0.dll
netui1 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 338.50 KB (346,624
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\netui1.dll
davclnt 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 38.00 KB (38,912
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\davclnt.dll
msi 3.1.4000.1830 4.27 MB (4,476,416 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\msi.dll
webcheck 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 439.00 KB
(449,536 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\webcheck.dll
stobject 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 142.50 KB
(145,920 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\stobject.dll
batmeter 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 41.50 KB
(42,496 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\batmeter.dll
powrprof 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 32.50 KB
(33,280 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\powrprof.dll

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browseui 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 63.00 KB
(64,512 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\browseui.dll
shdoclc 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 589.50 KB (603,648
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\shdoclc.dll
mydocs 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 101.00 KB (103,424
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\mydocs.dll
zipfldr 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 449.50 KB (460,288
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\zipfldr.dll
cmd 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 538.50 KB (551,424
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\cmd.exe
sqlservr 2005.090.2007.00 34.88 MB (36,570,624 bytes)
1/19/2006 4:31 PM Microsoft Corporation c:\program
files\microsoft sql server\mssql.1\mssql\bin\sqlservr.exe
msvcr80 8.00.50727.26 803.50 KB (822,784 bytes) 8/30/2005 8:50 PM
Microsoft Corporation
c:\windows\winsxs\amd64_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50
727.26_x-ww_3fe85033\msvcr80.dll
msvcpr80 8.00.50727.26 1.05 MB (1,097,728 bytes) 8/30/2005 8:53 PM
Microsoft Corporation
c:\windows\winsxs\amd64_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50
727.26_x-ww_3fe85033\msvcpr80.dll
opends60 2005.090.1314.00 22.21 KB (22,744 bytes)
9/3/2005 12:07 PM Microsoft Corporation c:\program
files\microsoft sql server\mssql.1\mssql\bin\opends60.dll
instapi 2005.090.1314.00 40.71 KB (41,688 bytes) 9/3/2005 12:03
PM Microsoft Corporation c:\program files\microsoft sql
server\90\shared\instapi.dll
sqllevn70 2005.090.1314.00 1.57 MB (1,641,688 bytes)
9/3/2005 12:09 PM Microsoft Corporation c:\program
files\microsoft sql server\mssql.1\mssql\bin\resources\1033\sqllevn70.rll
sqlos 2005.090.1314.00 15.71 KB (16,088 bytes) 9/3/2005 12:10
PM Microsoft Corporation c:\program files\microsoft sql
server\mssql.1\mssql\bin\sqlos.dll
mscoree 2.0.50727.26 (RTM.050727-2600) 441.00 KB (451,584 bytes)
8/30/2005 9:01 PM Microsoft Corporation
c:\windows\system32\mscoree.dll
xolehlp 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 10.50 KB
(10,752 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\xolehlp.dll
msdtcprx 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 805.50
KB (824,832 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\msdtcprx.dll
mtxclu 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 141.50 KB
(144,896 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\mtxclu.dll
resutils 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 98.50 KB
(100,864 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\resutils.dll
winrnr 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 30.00 KB (30,720
bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\winrnr.dll

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security 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 6.00 KB (6,144 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\security.dll
msfte 12.0.5626.1 3.63 MB (3,803,344 bytes) 8/26/2005 5:17 PM
Microsoft Corporation c:\program files\microsoft sql
server\mssql.1\mssql\bin\msfte.dll
dbghelp 6.4.0004.3 (vbl_core(jshay).041001-1326) 1.37 MB (1,434,328 bytes) 9/3/2005 12:04 PM Microsoft Corporation c:\program
files\microsoft sql server\90\shared\dbghelp.dll
uvipl 1, 0, 0, 1 51.50 KB (52,736 bytes) 1/9/2006 8:35 PM
Unisys Corporation c:\windows\system32\uvipl.dll
wshqos 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 33.50 KB (34,304 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\wshqos.dll
sqlncli 2005.090.1314.00 3.01 MB (3,152,144 bytes) 9/3/2005 12:12 PM
Microsoft Corporation c:\windows\system32\sqlncli.dll
comdlg32 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 446.50 KB (457,216 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\comdlg32.dll
sqlnclir 2005.090.1314.00 201.21 KB (206,040 bytes) 9/3/2005 12:08 PM Microsoft Corporation
c:\windows\system32\sqlnclir.rll
msftepxy 12.0.5626.1 121.70 KB (124,624 bytes) 8/26/2005 5:17 PM
Microsoft Corporation c:\program files\microsoft sql
server\mssql.1\mssql\bin\msftepxy.dll
msftesql 12.0.5626.1 152.20 KB (155,856 bytes) 8/26/2005 5:17 PM
Microsoft Corporation c:\program files\microsoft sql
server\mssql.1\mssql\bin\msftesql.exe
dbghelp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.22 MB (1,274,368 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\dbghelp.dll
cscript 5.6.0.8827 127.50 KB (130,560 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\cscript.exe
imm32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 208.00 KB (212,992 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\imm32.dll
vbscript 5.6.0.8827 646.50 KB (662,016 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\vbscript.dll

scrobj 5.6.0.8827 272.50 KB (279,040 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\scrobj.dll
wshom 5.6.0.8827 121.50 KB (124,416 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\wshom.ocx
scrrun 5.6.0.8827 262.00 KB (268,288 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\scrrun.dll
mfc42 6.50.9146.0 1.40 MB (1,470,464 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\mfc42.dll
taskmgr 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 231.00 KB (236,544 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\taskmgr.exe
utildll 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 37.00 KB (37,888 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\utildll.dll
helpctr 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.30 MB (1,363,456 bytes) 7/21/2005 2:25 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpctr.exe
hcappres 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 7.50 KB (7,680 bytes) 7/21/2005 2:25 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\hcappres.dll

itss 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 208.00 KB (212,992 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\itss.dll
msxml3 8.70.1104.0 2.04 MB (2,141,184 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\msxml3.dll
pchshell 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 155.00 KB (158,720 bytes) 7/21/2005 2:25 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchshell.dll
mlang 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 686.00 KB (702,464 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\mlang.dll
mshtml 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 5.65 MB (5,928,448 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
msls31 3.10.349.0 357.00 KB (365,568 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\msls31.dll
msimtf 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 380.50 KB (389,632 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msimtf.dll
msctf 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 617.50 KB (632,320 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\msctf.dll
jscript 5.6.0.8827 974.50 KB (997,888 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\jscript.dll
mshtml 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 905.50 KB (927,232 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
msinfo 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 636.00 KB (651,264 bytes) 7/21/2005 2:25 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo.dll
mfc42u 6.50.9146.0 1.39 MB (1,462,272 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\mfc42u.dll
riched32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 7.00 KB (7,168 bytes) 3/25/2005 11:00 AM Microsoft Corporation
c:\windows\system32\riched32.dll
riched20 5.31.23.1224 1.10 MB (1,157,120 bytes) 3/25/2005 11:00 AM
Microsoft Corporation c:\windows\system32\riched20.dll

wbemprox 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 38.00 KB (38,912 bytes) 7/21/2005 2:23 PM Microsoft Corporation
c:\windows\system32\wbem\wbemprox.dll
helpsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.52 MB (1,591,296 bytes) 7/21/2005 2:25 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpsvc.exe

[Services]
Display Name Name State Start Mode Service Type Path Error
Control Start Name Tag ID
Application Experience Lookup Service AeLookupSvc Running Auto Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
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

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Application Management AppMgmt Stopped Manual Share Process
  c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
ASP.NET State Service aspnet_state Stopped Manual Own Process
  c:\windows\microsoft.net\framework64\v2.0.50727\aspnet_state.exe
Normal NT AUTHORITY\NetworkService 0
Windows Audio AudioSrv Stopped Disabled Share Process
  c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Background Intelligent Transfer Service BITS Stopped Manual Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Computer Browser Browser 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
.NET Runtime Optimization Service v2.0.50727_X86
  clr_optimization_v2.0.50727_32 Stopped Manual Own Process
  c:\windows\microsoft.net\framework\v2.0.50727\mscorsvw.exe Ignore
LocalSystem 0
.NET Runtime Optimization Service v2.0.50727_x64
  clr_optimization_v2.0.50727_64 Stopped Manual Own Process
  c:\windows\microsoft.net\framework64\v2.0.50727\mscorsvw.exe
Ignore LocalSystem 0
COM+ System Application COMSysApp Stopped Manual Own Process
  c:\windows\system32\dlhhost.exe /processid:{02d4b3f1-fd88-11d1-
960d-00805fc79235} Normal LocalSystem 0
Cryptographic Services CryptSvc Stopped Manual Share Process
  c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
DCOM Server Process Launcher DcomLaunch Running Auto Share Process
  c:\windows\system32\svchost.exe -k dcomlaunch Normal
LocalSystem 0
Distributed File System Dfs Stopped Manual Own Process
  c:\windows\system32\dfssvc.exe Normal LocalSystem 0
DHCP Client Dhcp Stopped Manual Share Process
  c:\windows\system32\svchost.exe -k networkservice Normal NT
AUTHORITY\NetworkService 0
Logical Disk Manager Administrative Service dmadm Stopped Manual Share
Process c:\windows\system32\dmadmin.exe /com Normal LocalSystem 0
Logical Disk Manager dmserver Running Auto Share Process
  c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
DNS Client Dnscache Stopped Manual Share Process
  c:\windows\system32\svchost.exe -k networkservice Normal NT
AUTHORITY\NetworkService 0
Emulex HBAnyware Emulex HBAnyware Stopped Manual Own Process
  "c:\program files (x86)\hbanware\rmsrver.exe" Normal
LocalSystem 0
Emulex HBAnyware Discovery Emulex HBAnyware Discovery Stopped Manual
Own Process "c:\program files (x86)\hbanware\hbadiscsrvr.exe"
Normal LocalSystem 0

```

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Emulex HBAnyware SvcMgr Emulex HBAnyware SvcMgr Stopped Manual
Own Process "c:\program files (x86)\hbanware\hbahsmgr.exe"
Normal LocalSystem 0
Error Reporting Service ERSvc Stopped Manual Share Process
  c:\windows\system32\svchost.exe -k winerr Ignore LocalSystem
0
Event Log Eventlog Running Auto Share Process
  c:\windows\system32\services.exe Normal LocalSystem 0
COM+ Event System EventSystem Running Auto Share Process
  c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Help and Support helpsvc Running 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
IAS Jet Database Access IASJet Stopped Manual Share Process
  c:\windows\syswow64\svchost.exe -k iasjet Normal LocalSystem
0
IMAPI CD-Burning COM Service ImapiService Stopped Disabled Own
Process c:\windows\system32\imapi.exe Normal LocalSystem 0
Intersite Messaging IsmServ Stopped Disabled Own Process
  c:\windows\system32\ismserv.exe Normal LocalSystem 0
Kerberos Key Distribution Center kdc Stopped Disabled Share
Process c:\windows\system32\lsass.exe Normal LocalSystem 0
Server lanmanserver Running Auto Share Process
  c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Workstation lanmanworkstation Running Auto Share Process
  c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
License Logging LicenseService Stopped Disabled Own Process
  c:\windows\system32\llssrv.exe Normal NT
AUTHORITY\NetworkService 0
TCP/IP NetBIOS Helper LmHosts Stopped Manual 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 Running Auto Own Process
  c:\windows\system32\mnmsrvc.exe Normal LocalSystem 0
Distributed Transaction Coordinator MSDTC Stopped Manual Own Process
  c:\windows\system32\msdtc.exe Normal NT AUTHORITY\NetworkService
0
SQL Server FullText Search (MSSQLSERVER) msftesql Running Manual
Own Process "c:\program files\microsoft sql
server\mssql.1\mssql\bin\msftesql.exe" -s:mssql.1 -f:mssqlserver Normal
LocalSystem 0
Windows Installer MSIServer Stopped Manual Share Process
  c:\windows\system32\msiexec.exe /v Normal LocalSystem 0

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SQL Server (MSSQLSERVER)      MSSQLSERVER      Stopped Manual Own Process
"c:\program files\microsoft sql
server\mssql.1\mssql\bin\sqlservr.exe" -smssqlserver      Normal
LocalSystem 0
SQL Server Active Directory Helper      MSSQLServerADHelper      Stopped
Disabled      Own Process      "c:\program files\microsoft sql
server\90\shared\sqladhlp90.exe"      Normal NT AUTHORITY\NetworkService
0
Network DDE      NetDDE      Stopped Disabled      Share Process
c:\windows\system32\netdde.exe      Normal LocalSystem 0
Network DDE DSDM      NetDDEdsdm      Stopped Disabled      Share Process
c:\windows\system32\netdde.exe      Normal LocalSystem 0
Net Logon      Netlogon      Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Network Connections      Netman Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs      Normal LocalSystem
0
Network Location Awareness (NLA)      Nla      Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs      Normal LocalSystem
0
File Replication      NtFrs      Stopped Manual Own Process
c:\windows\system32\ntfrs.exe Ignore LocalSystem 0
NT LM Security Support Provider      NtLmSsp Running Manual Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Removable Storage      NtmsSvc Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs      Normal LocalSystem
0
Office Source Engine ose      Stopped Manual Own Process      "c:\program
files (x86)\common files\microsoft shared\source engine\ose.exe"      Normal
LocalSystem 0
Plug and Play      PlugPlay      Running Auto      Share Process
c:\windows\system32\services.exe      Normal LocalSystem 0
IPSEC Services PolicyAgent      Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Protected Storage      ProtectedStorage      Running Auto      Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Remote Access Auto Connection Manager RasAuto Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs      Normal LocalSystem
0
Remote Access Connection Manager      RasMan Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs      Normal LocalSystem
0
Remote Desktop Help Session Manager      RDSessMgr      Stopped Manual Own
Process c:\windows\system32\sessmgr.exe      Normal LocalSystem 0
Routing and Remote Access      RemoteAccess      Stopped Disabled      Share
Process c:\windows\system32\svchost.exe -k netsvcs      Normal LocalSystem
0
Remote Registry      RemoteRegistry Running Auto      Share Process
c:\windows\system32\svchost.exe -k regsvc      Normal NT
AUTHORITY\LocalService 0
Remote Procedure Call (RPC) Locator      RpcLocator      Stopped Manual Own
Process c:\windows\system32\locator.exe      Normal NT
AUTHORITY\NetworkService 0

```

```

Remote Procedure Call (RPC)      RpcSs      Running Auto      Share Process
c:\windows\system32\svchost.exe -k rpcss      Normal NT
AUTHORITY\NetworkService 0
Resultant Set of Policy Provider      RSOPProv      Stopped Manual Share
Process c:\windows\system32\rsopprov.exe      Normal LocalSystem 0
Special Administration Console Helper sacsvr Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs      Normal LocalSystem
0
Security Accounts Manager      SamSs      Running Auto      Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Smart Card      SCardSvr      Stopped Manual Share Process
c:\windows\system32\scardsvr.exe      Ignore NT
AUTHORITY\LocalService 0
Task Scheduler Schedule      Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs      Normal LocalSystem
0
Secondary Logon      seclogon      Running Auto      Share Process
c:\windows\system32\svchost.exe -k netsvcs      Ignore LocalSystem
0
System Event Notification      SENS      Running Auto      Share Process
c:\windows\system32\svchost.exe -k netsvcs      Normal LocalSystem
0
Windows Firewall/Internet Connection Sharing (ICS)      SharedAccess
Stopped Manual Share Process c:\windows\system32\svchost.exe -k
netsvcs Normal LocalSystem 0
Shell Hardware Detection      ShellHWDetection      Running Auto      Share
Process c:\windows\system32\svchost.exe -k netsvcs      Ignore LocalSystem
0
Print Spooler      Spooler Stopped Manual Own Process
c:\windows\system32\spoolsv.exe      Normal LocalSystem 0
SQL Server Browser      SQLBrowser      Stopped Disabled      Own Process
"c:\program files (x86)\microsoft sql
server\90\shared\sqlbrowser.exe"      Normal LocalSystem 0
SQL Server Agent (MSSQLSERVER)      SQLSERVERAGENT Stopped Manual Own
Process "c:\program files\microsoft sql
server\mssql.1\mssql\bin\sqlagent90.exe" -i mssqlserver      Normal
LocalSystem 0
SQL Server VSS Writer      SQLWriter      Stopped Manual Own Process
"c:\program files\microsoft sql server\90\shared\sqlwriter.exe"
Normal LocalSystem 0
Windows Image Acquisition (WIA)      stisvc Stopped Disabled      Share
Process c:\windows\system32\svchost.exe -k imgsvc      Normal NT
AUTHORITY\LocalService 0
Microsoft Software Shadow Copy Provider      swprv      Stopped Manual Own
Process c:\windows\system32\svchost.exe -k swprv      Normal LocalSystem
0
Performance Logs and Alerts      SysmonLog      Stopped Auto      Own Process
c:\windows\system32\smlogsvc.exe      Normal NT
Authority\NetworkService 0
Telephony      Tapisrv Stopped Manual Share Process
c:\windows\system32\svchost.exe -k tapisrv      Normal LocalSystem
0
Terminal Services      TermService      Running Manual Share Process
c:\windows\system32\svchost.exe -k termsvcs      Normal LocalSystem
0

```

Themes	Themes	Stopped	Disabled	Share	Process			
	c:\windows\system32\svchost.exe	-k	netstvcs	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	netstvcs	Normal	LocalSystem	0		
Distributed Link Tracking Client	TrkWks	Stopped	Manual	Share	Process			
	c:\windows\system32\svchost.exe	-k	netstvcs	Normal	LocalSystem	0		
Terminal Services Session Directory	Tssdis	Stopped	Disabled	Own	Process			
	c:\windows\system32\tssdis.exe			Normal	LocalSystem	0		
Windows User Mode Driver Framework	UMWdf	Stopped	Manual	Own	Process			
	c:\windows\system32\wdfmgr.exe			Normal	NT			
AUTHORITY\LocalService 0								
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	Manual	Share	Process			
	c:\windows\system32\svchost.exe	-k	localservice	Normal	NT			
AUTHORITY\LocalService 0								
WebClient	WebClient	Stopped	Disabled	Share	Process			
	c:\windows\system32\svchost.exe	-k	localservice	Normal	NT			
AUTHORITY\LocalService 0								
WinHTTP	Web Proxy Auto-Discovery Service			WinHttpAutoProxySvc				
		Stopped	Manual	Share	Process			
	c:\windows\system32\svchost.exe	-k	localservice	Normal	NT			
AUTHORITY\LocalService 0								
Windows Management Instrumentation	winmgmt	Running	Auto	Share	Process			
	c:\windows\system32\svchost.exe	-k	netstvcs	Ignore	LocalSystem	0		
VNC Server	Version 4	WinVNC4	Stopped	Manual	Own	Process	"c:\program files (x86)\realvnc\vnc4\winvnc4.exe"	-service
				Ignore	LocalSystem	0		
Portable Media Serial Number Service	WmdmPmSN	Stopped	Manual	Share	Process			
	c:\windows\system32\svchost.exe	-k	netstvcs	Normal	LocalSystem	0		
Windows Management Instrumentation Driver Extensions	Wmi	Stopped	Manual	Share	Process			
	c:\windows\system32\svchost.exe	-k	netstvcs	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	netstvcs	Normal	LocalSystem	0		
Wireless Configuration	WZCSVC	Stopped	Disabled	Share	Process			
	c:\windows\system32\svchost.exe	-k	netstvcs	Normal	LocalSystem	0		
Network Provisioning Service	xmlprov	Stopped	Manual	Share	Process			
	c:\windows\system32\svchost.exe	-k	netstvcs	Normal	LocalSystem	0		

[Program Groups]

Group Name	Name	User Name	
Accessories	Default	User:Accessories	Default User
Accessories\Accessibility		Default User:Accessories\Accessibility	
		Default User	
Accessories\Entertainment		Default User:Accessories\Entertainment	
		Default User	
Startup	Default	User:Startup	Default User
Accessories		All Users:Accessories	All Users
Accessories\Accessibility		All Users:Accessories\Accessibility	All Users
Accessories\Communications		All Users:Accessories\Communications	All Users
Accessories\Entertainment		All Users:Accessories\Entertainment	All Users
Accessories\System Tools		All Users:Accessories\System Tools	All Users
Administrative Tools		All Users:Administrative Tools	All Users
Debugging Tools for Windows 64-bit		All Users:Debugging Tools for Windows 64-bit	All Users
Emulex		All Users:Emulex	All Users
Microsoft SQL Server 2005 CTP		All Users:Microsoft SQL Server 2005 CTP	All Users
Microsoft SQL Server 2005 CTP\Analysis Services		All Users:Microsoft SQL Server 2005 CTP\Analysis Services	All Users
Microsoft SQL Server 2005 CTP\Configuration Tools		All Users:Microsoft SQL Server 2005 CTP\Configuration Tools	All Users
Microsoft SQL Server 2005 CTP\Documentation and Tutorials		All Users:Microsoft SQL Server 2005 CTP\Documentation and Tutorials	All Users
Microsoft SQL Server 2005 CTP\Documentation and Tutorials\Tutorials		All Users:Microsoft SQL Server 2005 CTP\Documentation and Tutorials\Tutorials	All Users
Microsoft SQL Server 2005 CTP\Performance Tools		All Users:Microsoft SQL Server 2005 CTP\Performance Tools	All Users
Microsoft Visual Studio 2005		All Users:Microsoft Visual Studio 2005	All Users
Microsoft Visual Studio 2005\Visual Studio Tools		All Users:Microsoft Visual Studio 2005\Visual Studio Tools	All Users
RealVNC		All Users:RealVNC	All Users
RealVNC\VNC Server 4 (Service-Mode)		All Users:RealVNC\VNC Server 4 (Service-Mode)	All Users
RealVNC\VNC Server 4 (User-Mode)		All Users:RealVNC\VNC Server 4 (User-Mode)	All Users
Startup		All Users:Startup	All Users
Accessories		NT AUTHORITY\SYSTEM:Accessories	NT AUTHORITY\SYSTEM
Accessories\Accessibility		NT AUTHORITY\SYSTEM:Accessories\Accessibility	NT AUTHORITY\SYSTEM
Accessories\Entertainment		NT AUTHORITY\SYSTEM:Accessories\Entertainment	NT AUTHORITY\SYSTEM
Startup		NT AUTHORITY\SYSTEM:Startup	NT AUTHORITY\SYSTEM
Accessories		TPCC-ZORRO\Administrator:Accessories	TPCC-ZORRO\Administrator
Accessories\Accessibility		TPCC-ZORRO\Administrator:Accessories\Accessibility	TPCC-ZORRO\Administrator

Accessories\Entertainment TPCC-
 ZORRO\Administrator:Accessories\Entertainment TPCC-
 ZORRO\Administrator
 Administrative Tools TPCC-ZORRO\Administrator:Administrative Tools
 TPCC-ZORRO\Administrator
 Startup TPCC-ZORRO\Administrator:Startup TPCC-ZORRO\Administrator

[Startup Programs]

Program	Command	User	Name	Location	Startup
desktop	desktop.ini	NT AUTHORITY\SYSTEM			Startup
desktop	desktop.ini	TPCC-ZORRO\Administrator			Startup
desktop	desktop.ini	.DEFAULT			Startup
desktop	desktop.ini	All Users			Common Startup
KernelFaultCheck	%systemroot%\system32\dumprep 0 -k	All Users		HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run	

[OLE Registration]

Object	Local	Server
Sound (OLE2)	sndrec32.exe	
Media Clip	mplay32.exe	
Video Clip	mplay32.exe	/avi
MIDI Sequence	mplay32.exe	/mid
Sound	Not Available	
Media Clip	Not Available	
WordPad Document	%programfiles%\windows nt\accessories\wordpad.exe"	

Bitmap Image mspaint.exe

[Windows Error Reporting]

Time	Type	Details

[Internet Settings]

[Internet Explorer]

[Following are sub-categories of this main category]
 [Summary]

Item	Value
Version	6.0.3790.1830
Build	63790.1830
Application Path	C:\Program Files\Internet Explorer
Language	English (United States)
Active Printer	Not Available

Cipher Strength	128-bit
Content Advisor	Disabled
IEAK Install	No

[File Versions]

File	Version	Size	Date	Path	Company
actxprxy.dll	6.0.3790.1830	221 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
advpack.dll	6.0.3790.1830	146 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
asctrls.ocx	6.0.3790.1830	147 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
browseui.dll	6.0.3790.1830	1,564 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
cdfview.dll	6.0.3790.1830	216 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
comctl32.dll	5.82.3790.1830	935 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
dxtrans.dll	6.3.3790.1830	320 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
dxtmsft.dll	6.3.3790.1830	549 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
iecont.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
iecontlc.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
iedkcs32.dll	16.0.3790.1830	417 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
iepeers.dll	6.0.3790.1830	361 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
iesetup.dll	6.0.3790.1830	71 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
ieunit.inf	Not Available	24 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Not Available
ieexplore.exe	6.0.3790.1830	94 KB	3/25/2005 11:00:00 AM	C:\Program Files\Internet Explorer	Microsoft Corporation
imgutil.dll	6.0.3790.1830	61 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
inetcpl.cpl	6.0.3790.1830	428 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
inetcplc.dll	6.0.3790.1830	110 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
inseng.dll	6.0.3790.1830	147 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
mlang.dll	6.0.3790.1830	686 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
msencode.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
mshta.exe	6.0.3790.1830	38 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
mshtml.dll	6.0.3790.1830	5,790 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
mshtml.tlb	6.0.3790.1830	1,320 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
mshtmlled.dll	6.0.3790.1830	906 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
mshtmler.dll	6.0.3790.1830	56 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
msident.dll	6.0.3790.1830	69 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
msidntld.dll	6.0.3790.1830	16 KB	3/25/2005 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation

```

msieftp.dll 6.0.3790.1830 369 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msrating.dll 6.0.3790.1830 240 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mstime.dll 6.0.3790.1830 878 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
occache.dll 6.0.3790.1830 126 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
proctexe.ocx <File Missing> Not Available Not Available Not Available
Not Available
sendmail.dll 6.0.3790.1830 64 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdoclc.dll 6.0.3790.1830 590 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdocvw.dll 6.0.3790.1830 2,360 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shfolder.dll 6.0.3790.1830 34 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shlwapi.dll 6.0.3790.1830 607 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
tdc.ocx 1.3.0.3130 91 KB 3/25/2005 11:00:00 AM C:\WINDOWS\system32
Microsoft Corporation
url.dll 6.0.3790.1830 40 KB 3/25/2005 11:00:00 AM C:\WINDOWS\system32
Microsoft Corporation
urlmon.dll 6.0.3790.1830 1,049 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
webcheck.dll 6.0.3790.1830 439 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
wininet.dll 6.0.3790.1830 1,159 KB 3/25/2005 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation

```

[Connectivity]

```

Item Value
Connection Preference Never dial

```

LAN Settings

```

AutoConfigProxy wininet.dll
AutoProxyDetectMode Disabled
AutoConfigURL
Proxy Disabled
ProxyServer
ProxyOverride

```

[Cache]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Page Refresh Type Automatic
Temporary Internet Files Folder C:\Documents and
Settings\Administrator\Local Settings\Temporary Internet Files
Total Disk Space Not Available
Available Disk Space Not Available
Maximum Cache Size Not Available
Available Cache Size Not Available

```

[List of Objects]

```

Program File Status CodeBase
No cached object information available

```

[Content]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Content Advisor Disabled

```

[Personal Certificates]

```

Issued To Issued By Validity Signature Algorithm
No personal certificate information available

```

[Other People Certificates]

```

Issued To Issued By Validity Signature Algorithm
No other people certificate information available

```

[Publishers]

```

Name
No publisher information available

```

[Security]

```

Zone Security Level
My Computer Custom
Local intranet Custom
Trusted sites Low
Internet Custom
Restricted sites Custom

```

Windows Enterprise Server Registry Information

Software_Microsoft_MicrosoftSQLServer

```

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:58 AM
Value 0
Name: SsrpActiveServer
Type: REG_SZ
Data:

```

Value 1

Name: InstalledInstances
Type: REG_MULTI_SZ
Data: MSSQLSERVER

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0

Name: SharedCode
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Shared\

Value 1
Name: VerSpecificRootDir
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\

Value 2
Name: EnableErrorReporting
Type: REG_DWORD
Data: 0

Value 3
Name: ErrorReportingDir
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Shared\ErrorDumps\

Value 4
Name: CustomerFeedback
Type: REG_DWORD
Data: 0

Value 5
Name: TimeOfReporting
Type: REG_DWORD
Data: 0xf0

Value 6
Name: CollectorParameters
Type: REG_SZ
Data:

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Bootstrap
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: BootstrapDir
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Setup Bootstrap\
Name: Uninstall
Type: REG_SZ
Data: {11111111-1111-1111-1111-111111111111},{79F1B65E-8FC0-4D03-954D-F9E71C85AEC7},{73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Bootstrap\MSIRefCount

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: Uninstall
Type: REG_SZ
Data: {11111111-1111-1111-1111-111111111111},{79F1B65E-8FC0-4D03-954D-F9E71C85AEC7},{73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Bootstrap\Setup
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: PatchLevel
Type: REG_SZ
Data: 9.00.1314.06

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Cost
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 10:03 AM
Value 0
Name: SQLSetup
Type: REG_SZ
Data: 8388608

Value 1
Name: MSXML6
Type: REG_SZ
Data: 15728640

Value 2
Name: ToolsSetup
Type: REG_SZ
Data: 26214400

Value 3
Name: PPESku
Type: REG_SZ
Data: 157286400

Value 4
Name: owc11
Type: REG_SZ
Data: 4194304

Value 5
Name: sqlxml4
Type: REG_SZ
Data: 8388608

Value 6
Name: bol
Type: REG_SZ
Data: 178257920

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Machines
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 10:03 AM
Value 0
Name: OriginalMachineName
Type: REG_SZ
Data: TPCC-ZORRO

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration
Class Name: <NO CLASS>
Last Write Time: 1/5/2006 - 12:17 PM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration\Node0
Class Name: <NO CLASS>
Last Write Time: 1/19/2006 - 7:25 AM
Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xff

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration\Node1
Class Name: <NO CLASS>
Last Write Time: 1/19/2006 - 7:26 AM
Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xff00

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration\Node2
Class Name: <NO CLASS>
Last Write Time: 1/19/2006 - 7:26 AM
Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xff0000

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration\Node3
Class Name: <NO CLASS>
Last Write Time: 1/19/2006 - 7:26 AM
Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xff000000

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 10:03 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\ClientSetup
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 10:03 AM
Value 0
Name: SQLBinRoot
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Shared\

Value 1
Name: SQLPath
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Tools

Value 2
Name: Path
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Tools\bin\

Value 3
Name: checksum
Type: REG_BINARY
Data:

00000000 39 31 33 66 66 66 30 65 - 62 38 32 62 30 34 37 62
913fff0eb82b047b
00000010 31 30 35 31 36 38 32 31 - 30 30 63 62 39 66 61 38
1051682100cb9fa8
00000020 64 62 63 63 31 35 35 37 - 33 62 34 65 33 30 39 33
dbcc15573b4e3093
00000030 37 30 39 30 65 32 37 30 - 37 35 32 65 37 32 62 33
7090e270752e72b3
00000040 33 65 34 35 30 64 63 38 - 33 35 63 32 62 30 39 66
3e450dc835c2b09f
00000050 37 31 38 31 30 64 30 61 - 64 31 35 31 65 32 31 61
71810d0ad151e21a
00000060 66 33 35 64 62 62 37 33 - 33 37 30 31 32 36 31 62
f35dbb733701261b
00000070 39 62 32 32 66 34 32 35 - 36 65 65 66 36 32 65 32
9b22f4256eef62e2
00000080 34 63 30 39 30 61 32 66 - 31 35 32 39 32 31 61 32
4c090a2f152921a2
00000090 62 66 63 38 39 39 30 30 - 32 39 37 39 39 38 61 65
bfc89900297998ae
000000a0 31 30 37 61 63 30 30 33 - 32 38 37 31 64 38 34 66
107ac0032871d84f
63 35 32 36 33 65 62 64 - 00 c5263ebd.

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\ClientSetup\CurrentVersion
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: Language
Type: REG_DWORD
Data: 0x409

Value 1

```

Name:          CurrentVersion
Type:          REG_SZ
Data:          9.00.1314.06

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Service Manager
Class Name:    <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
  Name:        Services
  Type:        REG_MULTI_SZ
  Data:        ;

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Setup
Class Name:    <NO CLASS>
Last Write Time: 9/8/2005 - 10:03 AM
Value 0
  Name:        Version
  Type:        REG_SZ
  Data:        9.00.1314.06

Value 1
  Name:        Language
  Type:        REG_DWORD
  Data:        0x409

Value 2
  Name:        ProductCode
  Type:        REG_SZ
  Data:        {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Value 3
  Name:        FeatureList
  Type:        REG_SZ
  Data:        Client_Components=3 SQL_Documentation=3 Connectivity=3
SQL Tools90=3 SQL_WarehouseDevWorkbench=3 SDK=3 SQLXML=3 Tools_Legacy=3
TOOLS_BC_DEP=3 SQL_BooksOnline=3

Value 4
  Name:        PatchLevel
  Type:        REG_SZ
  Data:        9.00.1314.06

Value 5
  Name:        SQLPath
  Type:        REG_SZ
  Data:        C:\Program Files\Microsoft SQL Server\90\Tools\

Value 6
  Name:        checksum
  Type:        REG_BINARY
  Data:        00000000 39 31 33 66 66 66 30 65 - 62 38 32 62 30 34 37 62
913fff0eb82b047b
00000010 31 30 35 31 36 38 32 31 - 30 30 63 62 39 66 61 38
1051682100cb9fa8

```

```

00000020 64 62 63 63 31 35 35 37 - 33 62 34 65 33 30 39 33
dbcc15573b4e3093
00000030 37 30 39 30 65 32 37 30 - 37 35 32 65 37 32 62 33
7090e270752e72b3
00000040 33 65 34 35 30 64 63 38 - 33 35 63 32 62 30 39 66
3e450dc835c2b09f
00000050 37 31 38 31 30 64 30 61 - 64 31 35 31 65 32 31 61
71810d0ad151e21a
00000060 66 33 35 64 62 62 37 33 - 33 37 30 31 32 36 31 62
f35dbb733701261b
00000070 39 62 32 32 66 34 32 35 - 36 65 65 66 36 32 65 32
9b22f4256eef62e2
00000080 34 63 30 39 30 61 32 66 - 31 35 32 39 32 31 61 32
4c090a2f152921a2
00000090 62 66 63 38 39 39 30 30 - 32 39 37 39 39 38 61 65
bfc89900297998ae
000000a0 31 30 37 61 63 30 30 33 - 32 38 37 31 64 38 34 66
107ac0032871d84f
63 35 32 36 33 65 62 64 - 00                                c5263ebd.

Value 7
  Name:        Edition
  Type:        REG_SZ
  Data:        Enterprise Edition (64-bit)

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut
Class Name:    <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\SQL Server Error and Usage Reporting
Class Name:    <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
  Name:        1033
  Type:        REG_SZ
  Data:

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall Info
Class Name:    <NO CLASS>
Last Write Time: 9/8/2005 - 10:03 AM

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall Info\{73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}
Class Name:    <NO CLASS>
Last Write Time: 9/8/2005 - 10:03 AM
Value 0
  Name:        Product
  Type:        REG_SZ
  Data:        Client_Components

Value 1
  Name:        SetupHive
  Type:        REG_SZ
  Data:        90\Tools

```


Value 2
 Name: RemoveList
 Type: REG_SZ
 Data: Client_Components,Connectivity,SQL_Tools90,SQL_WarehouseDevWorkbench,SDK,S
 QLXML,Tools_Legacy,TOOLS_BC_DEP,SQL_Documentation,SQL_BooksOnline,SQL_Data
 baseSamples,SQL_AdventureWorksSamples,SQL_AdventureWorksDWSamples,SQL_Adve
 ntureWorksASSamples,SQL_Samples

Value 3
 Name: ModifyPath
 Type: REG_SZ
 Data: "C:\Program Files\Microsoft SQL Server\90\Setup
 Bootstrap\setup.exe" /resumesetup /productcode {73D8B59D-0BFF-4B5B-A031-
 FAB3AC629E56} /I {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Value 4
 Name: UninstallPath
 Type: REG_SZ
 Data: "C:\Program Files\Microsoft SQL Server\90\Setup
 Bootstrap\setup.exe" /resumesetup /productcode {73D8B59D-0BFF-4B5B-A031-
 FAB3AC629E56} /X {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Value 5
 Name: Status
 Type: REG_DWORD
 Data: 0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
 Server\90\Uninstall_InfO\{79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: Product
 Type: REG_SZ
 Data: SQL_Engine

Value 1
 Name: SetupHive
 Type: REG_SZ
 Data: MSSQL.1

Value 2
 Name: RemoveList
 Type: REG_SZ
 Data: SQL_Engine,SQL_Data_Files,SQL_Replication,SQL_FullText,SQL_SharedTools,SQL
 _BC_DEP

Value 3
 Name: ModifyPath
 Type: REG_SZ
 Data: "C:\Program Files\Microsoft SQL Server\90\Setup
 Bootstrap\setup.exe" /resumesetup /productcode {79F1B65E-8FC0-4D03-954D-
 F9E71C85AEC7} /I {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}

Value 4

Name: UninstallPath
 Type: REG_SZ
 Data: "C:\Program Files\Microsoft SQL Server\90\Setup
 Bootstrap\setup.exe" /resumesetup /productcode {79F1B65E-8FC0-4D03-954D-
 F9E71C85AEC7} /X {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}

Value 5
 Name: Status
 Type: REG_DWORD
 Data: 0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
 Server\BC
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:47 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
 Server\BC\CurrentVersion
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:47 AM

Value 0
 Name: Version
 Type: REG_SZ
 Data: 8.05.1041

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
 Server\BC\MSIRefCount
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:55 AM

Value 0
 Name: Uninstall
 Type: REG_SZ
 Data: {11111111-1111-1111-1111-111111111111},{79F1B65E-8FC0-
 4D03-954D-F9E71C85AEC7},{73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
 Server\ExceptionMessageBox
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: ShowFeedbackButton
 Type: REG_DWORD
 Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
 Server\Instance Names
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
 Server\Instance Names\SQL
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: MSSQLSERVER

Type: REG_SZ
Data: MSSQL.1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: MSSQLSERVER

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\CPE
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: ErrorDumpDir
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\LOG\

Value 1
Name: EnableErrorReporting
Type: REG_DWORD
Data: 0

Value 2
Name: CustomerFeedback
Type: REG_DWORD
Data: 0

Value 3
Name: TimeOfReporting
Type: REG_DWORD
Data: 0x3c

Value 4
Name: CollectorParameters
Type: REG_SZ
Data: SQL MSSQL.1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{01C6B350-12C7-11CE-BD31-00AA004BBB1F}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{12CE94A0-DEFB-11D2-B31D-00600893A857}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: chsbrkr.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{1305C72E-2073-452E-A72D-667032B3B4FE}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: msir5jp.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{1680E7C3-9430-4A51-9B82-1E7E7AEE5258}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: chtbrkr.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{173C97E2-AE8E-437C-9445-01B237ABF2F6}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: langwrbk.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{188D6CC5-CB03-4C01-912E-47D21295D77E}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: langwrbk.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{2A6EB050-7F1C-11CE-BE57-00AA0051FE20}
Class Name: <NO CLASS>

Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{41B9BE05-B3AF-460C-BF0B-2CDD44A093B1}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: xmlfilt.dll

Value 1
Name: ThreadingModel
Type: REG_SZ
Data: Both

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{52F1DEDC-C51B-11D2-9A7C-00004F6888ED}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: msfte.dll

Value 1
Name: ThreadingModel
Type: REG_SZ
Data: Both

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{66B37110-8BF2-11CE-BE59-00AA0051FE20}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{68C6D24E-77E0-11D5-8528-00C04F68155C}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: msfte.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{6D36CE10-7F1C-11CE-BE57-00AA0051FE20}

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{6DE705A5-6467-43DC-9CE3-CCFE08B3F645}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: nls400.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{737FC9B5-BC66-4953-B7DB-B79A72A592A5}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: korwbrkr.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{73D009FB-7D05-45AC-94C2-EDD1029942D4}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: langwrbk.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{860D28D0-8BF4-11CE-BE59-00AA0051FE20}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{9478F640-7F1C-11CE-BE57-00AA0051FE20}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{95679344-48B8-42CD-9B79-2F5784D70258}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: langwrbk.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{97E8EFC5-42DA-43ED-9CEC-84FDE3620F1A}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: korwbrkr.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{9EA69E16-AD5E-43ED-B90E-73D58771D3F6}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: nls400.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{A9FFAE02-D834-47B3-8434-0D75DC0804BD}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: msir5jp.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{B0516FF0-7F1C-11CE-BE57-00AA0051FE20}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{C731071F-AC80-11D1-8DF3-00C04FB6EF4F}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: msfte.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: msfte.dll

Value 1
Name: ThreadingModel
Type: REG_SZ
Data: Both

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{CCA22CF4-59FE-11D1-BBFF-00C04FB97FDA}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: thawbrkr.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{CEDC01C7-59FE-11D1-BBFF-00C04FB97FDA}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: thawbrkr.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{D99F7670-7F1A-11CE-BE57-00AA0051FE20}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{E0CA5340-4534-11CF-B952-00AA0051FE20}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: nlhtml.dll

Value 1
Name: ThreadingModel
Type: REG_SZ
Data: Both

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{EEED4C20-7F1B-11CE-BE57-00AA0051FE20}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{F07F3920-7B8C-11CF-9BE8-00AA004B9986}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: offfilt.dll

Value 1
Name: ThreadingModel
Type: REG_SZ
Data: Both

Value 2
Name: Flags
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\CLSID\{FD86B5D0-12C6-11CE-BD31-00AA004BBB1F}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: infosoft.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\ascx
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\asm

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\asp
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\aspx
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\bat
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\c
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\cmd
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.cpp
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.cxx
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.def
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.dic
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.doc
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.dot
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.h
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.hnc
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.hpp
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.htm
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.html
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Filters\.htw
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.htx
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.hxx
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.ibq
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.idl
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.inc
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.inf
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ

Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.ini
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.inx
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.js
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.log
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.m3u
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.mht
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>

Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\obd
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\obt
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\odc
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\opl
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\pot
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\ppt
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0

Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\rc
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\reg
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\rtf
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\stm
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\txt
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\url
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.vbs
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.wtx
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.xlb
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.xlc
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.xls
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.xlt
Class Name: <NO CLASS>

Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\.xml
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {41B9BE05-B3AF-460C-BF0B-2CDD44A093B1}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{00020810-0000-0000-C000-000000000046}

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{00020811-0000-0000-C000-000000000046}

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{00020820-0000-0000-C000-000000000046}

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{00020821-0000-0000-C000-000000000046}

Class Name: <NO CLASS>

Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{00020900-0000-0000-C000-000000000046}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{00020906-0000-0000-C000-000000000046}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{25336920-03F9-11CF-8FD0-00AA00686F13}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{59850400-6664-101B-B21C-00AA004BA90B}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{5E941D80-BF96-11CD-B579-08002B30BFEB}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ

Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{64818D10-4F9B-11CF-86EA-00AA00B929E8}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{64818D11-4F9B-11CF-86EA-00AA00B929E8}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{7F73B8F6-C19C-11D0-AA66-00C04FC2EDDC}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{87DB1ADA-AA39-11D1-829F-00A0C906B239}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{89BCB7A4-6119-101A-BCB7-00DD010655AF}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{8C9E8E1C-90F0-11D1-BA0F-00A0C906B239}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{95876EB0-90F0-11D1-BA0F-00A0C906B239}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{961C1130-89AD-11CF-88A1-00AA004B9986}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{9ED4692C-90F0-11D1-BA0F-00A0C906B239}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{BD70C020-2D24-11D0-9110-00004C752752}
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {E0CA5340-4534-11CF-B952-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Filters\CLSID\{EA7BAE70-FB3B-11CD-A903-00AA00510EA3}
Class Name: <NO CLASS>

Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: {F07F3920-7B8C-11CF-9BE8-00AA004B9986}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\GlobalAdminBlob
Class Name: <NO CLASS>
Last Write Time: 1/10/2006 - 1:04 PM
Value 0
Name: Blob0
Type: REG_BINARY
Data:

00000000 00 00 00 80 98 02 00 00 - 06 00 15 00 46 00 54 00
.....F.T.
00000010 45 00 5f 00 52 00 65 00 - 74 00 61 00 69 00 6c 00
E..R.e.t.a.i.l.
00000020 54 00 72 00 61 00 63 00 - 69 00 6e 00 67 00 50 00
T.r.a.c.i.n.g.P.
00000030 61 00 74 00 68 00 00 00 - 08 00 37 00 43 00 3a 00
a.t.h....7.C..
00000040 5c 00 50 00 72 00 6f 00 - 67 00 72 00 61 00 6d 00
\.P.r.o.g.r.a.m.
00000050 20 00 46 00 69 00 6c 00 - 65 00 73 00 5c 00 4d 00
.F.i.l.e.s.\.M.
00000060 69 00 63 00 72 00 6f 00 - 73 00 6f 00 66 00 74 00
i.c.r.o.s.o.f.t.
00000070 20 00 53 00 51 00 4c 00 - 20 00 53 00 65 00 72 00 .S.Q.L.
.S.e.r.
00000080 76 00 65 00 72 00 5c 00 - 4d 00 53 00 53 00 51 00
v.e.r.\.M.S.S.Q.
00000090 4c 00 2e 00 31 00 5c 00 - 4d 00 53 00 53 00 51 00
L...l.\.M.S.S.Q.
000000a0 4c 00 5c 00 4c 00 4f 00 - 47 00 00 00 14 00 46 00
L.\.L.O.G.....F.
000000b0 54 00 45 00 5f 00 53 00 - 51 00 4c 00 44 00 75 00
T.E._.S.Q.L.D.u.
000000c0 6d 00 70 00 65 00 72 00 - 44 00 75 00 6d 00 70 00
m.p.e.r.D.u.m.p.
000000d0 44 00 69 00 72 00 00 00 - 08 00 37 00 43 00 3a 00
D.i.r....7.C..
000000e0 5c 00 50 00 72 00 6f 00 - 67 00 72 00 61 00 6d 00
\.P.r.o.g.r.a.m.
000000f0 20 00 46 00 69 00 6c 00 - 65 00 73 00 5c 00 4d 00
.F.i.l.e.s.\.M.
00000100 69 00 63 00 72 00 6f 00 - 73 00 6f 00 66 00 74 00
i.c.r.o.s.o.f.t.
00000110 20 00 53 00 51 00 4c 00 - 20 00 53 00 65 00 72 00 .S.Q.L.
.S.e.r.
00000120 76 00 65 00 72 00 5c 00 - 4d 00 53 00 53 00 51 00
v.e.r.\.M.S.S.Q.
00000130 4c 00 2e 00 31 00 5c 00 - 4d 00 53 00 53 00 51 00
L...l.\.M.S.S.Q.
00000140 4c 00 5c 00 4c 00 4f 00 - 47 00 00 00 12 00 46 00
L.\.L.O.G.....F.
00000150 54 00 45 00 5f 00 53 00 - 51 00 4c 00 44 00 75 00
T.E._.S.Q.L.D.u.

```

00000160 6d 00 70 00 65 00 72 00 - 46 00 6c 00 61 00 67 00
m.p.e.r.F.l.a.g.
00000170 73 00 00 00 08 00 06 00 - 30 00 78 00 30 00 38 00
s.....0.x.0.8.
00000180 30 00 30 00 00 00 15 00 - 46 00 54 00 45 00 5f 00
0.0....F.T.E..
00000190 53 00 51 00 4c 00 44 00 - 75 00 6d 00 70 00 65 00
S.Q.L.D.u.m.p.e.
000001a0 72 00 46 00 75 00 6c 00 - 6c 00 50 00 61 00 74 00
r.F.u.l.l.P.a.t.
000001b0 68 00 00 00 08 00 3d 00 - 43 00 3a 00 5c 00 50 00
h....=.C.:.\.P.
000001c0 72 00 6f 00 67 00 72 00 - 61 00 6d 00 20 00 46 00 r.o.g.r.a.m.
.F.
000001d0 69 00 6c 00 65 00 73 00 - 5c 00 4d 00 69 00 63 00
i.l.e.s.\.M.i.c.
000001e0 72 00 6f 00 73 00 6f 00 - 66 00 74 00 20 00 53 00 r.o.s.o.f.t.
.S.
000001f0 51 00 4c 00 20 00 53 00 - 65 00 72 00 76 00 65 00 Q.L.
.S.e.r.v.e.
00000200 72 00 5c 00 39 00 30 00 - 5c 00 53 00 68 00 61 00
r.\.9.0.\.S.h.a.
00000210 72 00 65 00 64 00 5c 00 - 73 00 71 00 6c 00 64 00
r.e.d.\.s.q.l.d.
00000220 75 00 6d 00 70 00 65 00 - 72 00 2e 00 65 00 78 00
u.m.p.e.r...e.x.
00000230 65 00 00 00 11 00 46 00 - 54 00 45 00 5f 00 45 00
e....F.T.E..E.
00000240 72 00 72 00 6f 00 72 00 - 43 00 6f 00 75 00 6e 00
r.r.o.r.C.o.u.n.
00000250 74 00 4d 00 61 00 78 00 - 00 00 13 00 00 00 00 00
t.M.a.x.....
00000260 15 00 46 00 54 00 45 00 - 5f 00 50 00 72 00 6f 00
..F.T.E..P.r.o.
00000270 63 00 65 00 73 00 73 00 - 6f 00 72 00 41 00 66 00
c.e.s.s.o.r.A.f.
00000280 66 00 69 00 6e 00 69 00 - 74 00 79 00 00 00 15 00
f.i.n.i.t.y.....
ff ff ff ff 00 00 00 00 -
ÿÿÿÿ....

```

```

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

```

```

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\chs
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: NoiseFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisechs.txt

```

```

Value 1
Name: TsaurusFile
Type: REG_SZ

```

```

Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tschs.xml

```

```

Value 2
Name: Locale
Type: REG_DWORD
Data: 0x804

```

```

Value 3
Name: WBreakerClass
Type: REG_SZ
Data: {12CE94A0-DEFB-11D2-B31D-00600893A857}

```

```

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\cht
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

```

```

Value 0
Name: NoiseFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisecht.txt

```

```

Value 1
Name: TsaurusFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tscht.xml

```

```

Value 2
Name: Locale
Type: REG_DWORD
Data: 0x404

```

```

Value 3
Name: WBreakerClass
Type: REG_SZ
Data: {1680E7C3-9430-4A51-9B82-1E7E7AEE5258}

```

```

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSearch\Language\deu
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

```

```

Value 0
Name: NoiseFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisedeu.txt

```

```

Value 1
Name: TsaurusFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsdeu.xml

```

```

Value 2
Name: Locale

```

Type: REG_DWORD
Data: 0x407

Value 3
Name: WBreakerClass
Type: REG_SZ
Data: {9EA69E16-AD5E-43ED-B90E-73D58771D3F6}

Value 4
Name: StemmerClass
Type: REG_SZ
Data: {6DE705A5-6467-43DC-9CE3-CCFE08B3F645}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\eng
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: NoiseFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noiseeng.txt

Value 1
Name: TsaurusFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tseng.xml

Value 2
Name: StemmerClass
Type: REG_SZ
Data: {D99F7670-7F1A-11CE-BE57-00AA0051FE20}

Value 3
Name: Locale
Type: REG_DWORD
Data: 0x809

Value 4
Name: WBreakerClass
Type: REG_SZ
Data: {173C97E2-AEBE-437C-9445-01B237ABF2F6}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\enu
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: NoiseFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noiseenu.txt

Value 1
Name: TsaurusFile
Type: REG_SZ

Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tsenu.xml

Value 2
Name: StemmerClass
Type: REG_SZ
Data: {EEED4C20-7F1B-11CE-BE57-00AA0051FE20}

Value 3
Name: Locale
Type: REG_DWORD
Data: 0x409

Value 4
Name: WBreakerClass
Type: REG_SZ
Data: {188D6CC5-CB03-4C01-912E-47D21295D77E}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\esn
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: NoiseFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noiseesn.txt

Value 1
Name: TsaurusFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tsesn.xml

Value 2
Name: StemmerClass
Type: REG_SZ
Data: {B0516FF0-7F1C-11CE-BE57-00AA0051FE20}

Value 3
Name: Locale
Type: REG_DWORD
Data: 0xc0a

Value 4
Name: WBreakerClass
Type: REG_SZ
Data: {73D009FB-7D05-45AC-94C2-EDD1029942D4}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\fra
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: NoiseFile
Type: REG_SZ

Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noisefra.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tsfra.xml

Value 2
 Name: StemmerClass
 Type: REG_SZ
 Data: {2A6EB050-7F1C-11CE-BE57-00AA0051FE20}

Value 3
 Name: Locale
 Type: REG_DWORD
 Data: 0x40c

Value 4
 Name: WBreakerClass
 Type: REG_SZ
 Data: {95679344-48B8-42CD-9B79-2F5784D70258}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\ita
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noiseita.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tsita.xml

Value 2
 Name: Locale
 Type: REG_DWORD
 Data: 0x410

Value 3
 Name: WBreakerClass
 Type: REG_SZ
 Data: {FD86B5D0-12C6-11CE-BD31-00AA004BBB1F}

Value 4
 Name: StemmerClass
 Type: REG_SZ
 Data: {6D36CE10-7F1C-11CE-BE57-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\jpn

Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noisejpn.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tsjpn.xml

Value 2
 Name: Locale
 Type: REG_DWORD
 Data: 0x411

Value 3
 Name: WBreakerClass
 Type: REG_SZ
 Data: {A9FFAE02-D834-47B3-8434-0D75DC0804BD}

Value 4
 Name: StemmerClass
 Type: REG_SZ
 Data: {1305C72E-2073-452E-A72D-667032B3B4FE}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\kor
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noisekor.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tskor.xml

Value 2
 Name: Locale
 Type: REG_DWORD
 Data: 0x412

Value 3
 Name: WBreakerClass
 Type: REG_SZ
 Data: {737FC9B5-BC66-4953-B7DB-B79A72A592A5}

Value 4
 Name: StemmerClass
 Type: REG_SZ

Data: {97E8EFC5-42DA-43ED-9CEC-84FDE3620F1A}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\Neutral
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noiseneu.txt

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

Value 2
 Name: Locale
 Type: REG_DWORD
 Data: 0

Value 3
 Name: WBreakerClass
 Type: REG_SZ
 Data: {C731071F-AC80-11D1-8DF3-00C04FB6EF4F}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\nld
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noisenld.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tsnld.xml

Value 2
 Name: Locale
 Type: REG_DWORD
 Data: 0x413

Value 3
 Name: WBreakerClass
 Type: REG_SZ
 Data: {66B37110-8BF2-11CE-BE59-00AA0051FE20}

Value 4
 Name: StemmerClass
 Type: REG_SZ

Data: {860D28D0-8BF4-11CE-BE59-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\sve
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noisesve.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tssve.xml

Value 2
 Name: Locale
 Type: REG_DWORD
 Data: 0x41d

Value 3
 Name: WBreakerClass
 Type: REG_SZ
 Data: {01C6B350-12C7-11CE-BD31-00AA004BBB1F}

Value 4
 Name: StemmerClass
 Type: REG_SZ
 Data: {9478F640-7F1C-11CE-BE57-00AA0051FE20}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\tha
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noisetha.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tstha.xml

Value 2
 Name: Locale
 Type: REG_DWORD
 Data: 0x41e

Value 3
 Name: WBreakerClass
 Type: REG_SZ

Data: {CCA22CF4-59FE-11D1-BBFF-00C04FB97FDA}

Value 4
 Name: StemmerClass
 Type: REG_SZ
 Data: {CEDC01C7-59FE-11D1-BBFF-00C04FB97FDA}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\zh-hk
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noisecht.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tscht.xml

Value 2
 Name: Locale
 Type: REG_DWORD
 Data: 0xc04

Value 3
 Name: WBreakerClass
 Type: REG_SZ
 Data: {1680E7C3-9430-4A51-9B82-1E7E7AEE5258}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\zh-mo
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noisecht.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tscht.xml

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

Value 3
 Name: WBreakerClass
 Type: REG_SZ

Data: {1680E7C3-9430-4A51-9B82-1E7E7AEE5258}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Language\zh-sg
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: NoiseFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\noisechs.txt

Value 1
 Name: TsaurusFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData\tschs.xml

Value 2
 Name: Locale
 Type: REG_DWORD
 Data: 0x1004

Value 3
 Name: WBreakerClass
 Type: REG_SZ
 Data: {12CE94A0-DEFB-11D2-B31D-00600893A857}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Plugins
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSearch\Plugins\MicrosoftIndexer
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: <NO NAME>
 Type: REG_SZ
 Data: {68C6D24E-77E0-11D5-8528-00C04F68155C}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer
 Class Name: <NO CLASS>
 Last Write Time: 1/24/2006 - 4:51 PM

Value 0
 Name: AuditLevel
 Type: REG_DWORD
 Data: 0x2

Value 1
 Name: DebugClassID
 Type: REG_SZ
 Data: {1D999205-8861-4E2C-B5E5-9A122070922C}

Value 2
 Name: DefaultLogin
 Type: REG_SZ
 Data: guest

Value 3
 Name: LoginMode
 Type: REG_DWORD
 Data: 0x2

Value 4
 Name: Map_
 Type: REG_SZ
 Data: \

Value 5
 Name: Map#
 Type: REG_SZ
 Data: -

Value 6
 Name: Map\$
 Type: REG_SZ
 Data:

Value 7
 Name: SetHostName
 Type: REG_DWORD
 Data: 0

Value 8
 Name: Tapeloadwaittime
 Type: REG_DWORD
 Data: 0xffffffff

Value 9
 Name: BackupDirectory
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Backup

Value 10
 Name: SysDb
 Type: REG_DWORD
 Data: 0x1

Value 11
 Name: FullTextDefaultPath
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\FTData

Value 12
 Name: uptime_pid
 Type: REG_DWORD
 Data: 0x138

Value 13
 Name: uptime_time_utc

Type: REG_BINARY
 Data: e8 e6 16 74 49 21 c6 01 - èæ.tI!Æ.

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\CurrentVersion
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: Language
 Type: REG_DWORD
 Data: 0x409

Value 1
 Name: CurrentVersion
 Type: REG_SZ
 Data: 9.00.1314.06

Value 2
 Name: RegisteredOwner
 Type: REG_SZ
 Data:

Value 3
 Name: SerialNumber
 Type: REG_SZ
 Data:

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\Parameters
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: SQLArg0
 Type: REG_SZ
 Data: -dC:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA\master.mdf

Value 1
 Name: SQLArg1
 Type: REG_SZ
 Data: -eC:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\LOG\ERRORLOG

Value 2
 Name: SQLArg2
 Type: REG_SZ
 Data: -lC:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA\mastlog.ldf

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: ForceEncryption

Type: REG_DWORD
Data: 0

Value 1
Name: HideInstance
Type: REG_DWORD
Data: 0

Value 2
Name: Certificate
Type: REG_SZ
Data:

Value 3
Name: DisplayName
Type: REG_SZ
Data: SQL Server Network Configuration

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\AdminConnection
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: DisplayName
Type: REG_SZ
Data: Dedicated Administrative Connection

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\AdminConnection\Tcp
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: TcpDynamicPorts
Type: REG_SZ
Data: 1434

Value 1
Name: DisplayName
Type: REG_SZ
Data: TCP/IP

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Np
Class Name: <NO CLASS>
Last Write Time: 1/9/2006 - 6:19 PM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: PipeName
Type: REG_SZ
Data: \\.\pipe\sql\query

Value 2

Name: DisplayName
Type: REG_SZ
Data: Named Pipes

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Sm
Class Name: <NO CLASS>
Last Write Time: 1/9/2006 - 6:19 PM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 1
Name: DisplayName
Type: REG_SZ
Data: Shared Memory

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp
Class Name: <NO CLASS>
Last Write Time: 1/7/2006 - 4:52 PM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: ListenOnAllIPs
Type: REG_DWORD
Data: 0x1

Value 2
Name: NoDelay
Type: REG_DWORD
Data: 0

Value 3
Name: KeepAlive
Type: REG_DWORD
Data: 0x7530

Value 4
Name: DisplayName
Type: REG_SZ
Data: TCP/IP

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP1
Class Name: <NO CLASS>
Last Write Time: 9/27/2005 - 10:30 AM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 1
 Name: Active
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: TcpPort
 Type: REG_SZ
 Data: 1433 [0x1]

Value 3
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Specific IP Address

Value 5
 Name: IpAddress
 Type: REG_SZ
 Data: 192.168.91.207

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP2
 Class Name: <NO CLASS>
 Last Write Time: 9/22/2005 - 4:46 PM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Active
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: TcpPort
 Type: REG_SZ
 Data: 1433

Value 3
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Specific IP Address

Value 5
 Name: IpAddress
 Type: REG_SZ
 Data: 192.59.13.7

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP3
 Class Name: <NO CLASS>
 Last Write Time: 9/22/2005 - 4:46 PM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Active
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: TcpPort
 Type: REG_SZ
 Data: 1433

Value 3
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Specific IP Address

Value 5
 Name: IpAddress
 Type: REG_SZ
 Data: 127.0.0.1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IPAll
 Class Name: <NO CLASS>
 Last Write Time: 9/27/2005 - 10:36 AM

Value 0
 Name: TcpPort
 Type: REG_SZ
 Data: 1433 [0x1]

Value 1
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 2
 Name: DisplayName
 Type: REG_SZ
 Data: Any IP Address

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Via

Class Name: <NO CLASS>
Last Write Time: 1/24/2006 - 6:13 AM
Value 0
Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 1
Name: DefaultServerPort
Type: REG_SZ
Data: 0:1401[0x2],1:1402[0x1],2:1403[0x4],3:1404[0x8]

Value 2
Name: ListenInfo
Type: REG_SZ
Data: 0:1401[0x2],1:1402[0x1],2:1403[0x4],3:1404[0x8]

Value 3
Name: DisplayName
Type: REG_SZ
Data: VIA

Value 4
Name: VendorDLL
Type: REG_SZ
Data: Uvipl.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\ADSDSOObject
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\DB2OLEDB
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\Microsoft.Jet.OLEDB.4.0
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSDAORA
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSDASQL
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSIDX
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSQLImpProv
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSSEARCHSQL
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\SQLNCLI
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM
 Value 0
 Name: AllowInProcess
 Type: REG_DWORD
 Data: 0x1
 Value 1
 Name: DisallowAdhocAccess
 Type: REG_DWORD
 Data: 0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Replication
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM
 Value 0
 Name: IsInstalled
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: DistributionDB
 Type: REG_SZ
 Data:

Value 2
 Name: WorkingDirectory
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\REPLDATA

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Security
 Class Name: <NO CLASS>
 Last Write Time: 11/3/2005 - 7:50 PM
 Value 0
 Name: Entropy
 Type: REG_BINARY
 Data:
 00000000 95 64 13 37 c6 f4 df c5 - d3 0b 41 8f b3 1d 33 0a
 .d.7ÆÐßÁÓ.A.³.3.
 00000010 3c 98 d1 12 21 a7 67 9f - 44 aa eb 48 0f e0 79 39
 <.Ñ.!\$g.D*ëH.ày9
 00000020 24 4c 75 13 8b 40 ff 9f - 1f da 6e ed 22 97 0e 92
 \$Lu..@ÿ.Úñí"...
 00000030 88 8e 59 71 25 68 96 04 - 36 84 7a 77 08 71 75 a9
 ..Yq%h..6.zw.qu©
 00000040 33 db 7c 0e d3 9c 88 86 - 6e f4 f1 99 46 99 7f bd
 3Û|.Ó...nðñ.F.½
 00000050 0f 21 06 58 8d 67 eb 8f - 53 4a b7 b6 5e ea a9 4a
 .!.X.gë.SJ.¶^ê©J
 00000060 4a d1 30 02 e9 c7 ad fb - ca 80 b1 11 ca da f0 d6
 JÑ0.éÇ-úÊ.±.ÊÚðÖ

00000070 8f 52 6a b3 d3 19 fe b5 - d7 75 97 c3 ab 34 3e 59
 .Rj³Ó.þuxu.Ã«4>Y
 00000080 9c 23 0e 6b 32 e7 c9 b6 - c2 9d e9 88 22 27 b5 65
 .#.k2çÊ¶Ã.é."µe
 00000090 76 aa ca 00 a7 64 33 c1 - be 7d 6e e2 3e fa 7c 28
 v*Ê.šd3Ã¼}nâ>ú|(
 000000a0 f6 18 50 45 1f 05 b2 34 - 02 3d 7a 94 92 b7 d5 6c
 ò.PE..²4.=z...Ö1
 000000b0 64 32 5b e5 d2 c1 50 6b - fa 03 3b 97 77 fd 75 cb
 d2[âÔÁPkú.;.wýuË
 000000c0 27 c9 ec b5 d4 ad 42 28 - 9c 36 3a 51 bd b5 14 1c
 'ÊîµÔ-B(.6:Q¼µ..
 000000d0 d4 f9 47 0d a7 a6 59 2c - fa 76 a4 d9 81 b5 ca 7d
 ÔùG.š|Y,úvµÛ.µÊ}
 000000e0 26 02 41 41 d6 4e 29 8b - 04 a2 88 2a f9 36 31 eb
 &.AAÖN)..ç.*ù61ë
 000000f0 3f 10 6d ab 65 18 db 71 - f0 41 38 ff 9a 18 02 c7
 ?.m«e.ÛqðA8ÿ...Ç

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Setup
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM
 Value 0
 Name: AGTGroup
 Type: REG_SZ
 Data: S-1-5-21-3969286527-733576534-1460975245-1010

Value 1
 Name: SQLGroup
 Type: REG_SZ
 Data: S-1-5-21-3969286527-733576534-1460975245-1011

Value 2
 Name: FTSGroup
 Type: REG_SZ
 Data: S-1-5-21-3969286527-733576534-1460975245-1012

Value 3
 Name: Version
 Type: REG_SZ
 Data: 9.00.1314.06

Value 4
 Name: Language
 Type: REG_DWORD
 Data: 0x409

Value 5
 Name: Resume
 Type: REG_DWORD
 Data: 0

Value 6
 Name: ProductCode
 Type: REG_SZ
 Data: {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}

Value 7
 Name: SqlProgramDir
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\
 Value 8
 Name: checksum
 Type: REG_BINARY
 Data:
 00000000 39 31 33 66 66 66 30 65 - 62 38 32 62 30 34 37 62
 913fff0eb82b047b
 00000010 31 30 35 31 36 38 32 31 - 30 30 63 64 36 36 65 31
 1051682100cd66e1
 00000020 31 31 31 37 31 63 31 33 - 63 36 30 66 30 33 62 65
 11171c13c60f03be
 00000030 33 36 31 36 30 30 39 32 - 62 32 38 37 66 38 62 62
 36160092b287f8bb
 00000040 65 39 37 35 64 37 64 30 - 32 38 63 37 63 66 65 61
 e975d7d028c7cfea
 00000050 32 62 61 65 39 38 62 61 - 64 33 31 34 32 36 64 31
 2bae98bad31426d1
 00000060 30 37 31 34 66 36 63 36 - 32 36 66 64 66 66 62 63
 0714f6c626fdffbc
 00000070 34 34 38 35 63 30 37 39 - 62 62 35 32 36 39 33 64
 4485c079bb52693d
 00000080 35 30 66 35 30 32 35 39 - 36 34 39 63 61 38 64 38
 50f50259649ca8d8
 00000090 63 62 35 32 63 32 65 33 - 63 34 63 63 32 61 64 34
 cb52c2e3c4cc2ad4
 000000a0 37 33 66 31 64 65 39 33 - 30 61 35 37 37 30 38 62
 73f1de930a57708b
 66 33 39 38 31 33 62 63 - 00 f39813bc.
 Value 9
 Name: Edition
 Type: REG_SZ
 Data: Enterprise Edition (64-bit)
 Value 10
 Name: SqlCluster
 Type: REG_DWORD
 Data: 0
 Value 11
 Name: FeatureList
 Type: REG_SZ
 Data: SQL_Engine=3 SQL_Data_Files=3 SQL_Replication=3
 SQL_FullText=3 SQL_SharedTools=3 SQL_BC_DEP=3
 Value 12
 Name: PatchLevel
 Type: REG_SZ
 Data: 9.00.1314.06
 Value 13
 Name: Collation
 Type: REG_SZ
 Data: Latin1_General_BIN

Value 14
 Name: FirstStart
 Type: REG_DWORD
 Data: 0
 Value 15
 Name: SQLDataRoot
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL
 Value 16
 Name: SQLPath
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL
 Value 17
 Name: SQLBinRoot
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL
 Server\MSSQL.1\MSSQL\Binn
 Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
 Server\MSSQL.1\SQLServerAgent
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM
 Value 0
 Name: JobHistoryMaxRowsPerJob
 Type: REG_DWORD
 Data: 0x64
 Value 1
 Name: SysAdminOnly
 Type: REG_DWORD
 Data: 0x1
 Value 2
 Name: DownloadedMaxRows
 Type: REG_DWORD
 Data: 0x64
 Value 3
 Name: ErrorLogFile
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL
 Server\MSSQL.1\MSSQL\LOG\SQLAGENT.OUT
 Value 4
 Name: ErrorLoggingLevel
 Type: REG_DWORD
 Data: 0x3
 Value 5
 Name: JobHistoryMaxRows
 Type: REG_DWORD
 Data: 0x3e8
 Value 6

Name: MSXServerName
Type: REG_SZ
Data:

Value 7
Name: NonAlertableErrors
Type: REG_SZ
Data: 1204,4002

Value 8
Name: RestartServer
Type: REG_DWORD
Data: 0x1

Value 9
Name: ServerHost
Type: REG_SZ
Data:

Value 10
Name: WorkingDirectory
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\JOBS\

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\SQLServerSCP
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\Analysis Server
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: Name
Type: REG_SZ
Data: MSSQLServerOLAPService

Value 1
Name: LName
Type: REG_SZ
Data: MSOLAP\$

Value 2
Name: Type
Type: REG_DWORD
Data: 0x5

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\Full Text
Class Name: <NO CLASS>

Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: LName
Type: REG_SZ
Data: msftesql\$

Value 1
Name: Name
Type: REG_SZ
Data: msftesql

Value 2
Name: Type
Type: REG_DWORD
Data: 0x3

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\Notification Services
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: LName
Type: REG_SZ
Data: NS\$

Value 1
Name: Name
Type: REG_SZ
Data: NsService

Value 2
Name: Type
Type: REG_DWORD
Data: 0x8

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Services\Report Server
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: Name
Type: REG_SZ
Data: ReportServer

Value 1
Name: LName
Type: REG_SZ
Data: ReportServer\$

Value 2
Name: Type
Type: REG_DWORD
Data: 0x6

Value 3
Name: GroupPrefix
Type: REG_SZ

Data: SQLServer2005ReportServerUser\$TPCC-ZORRO\$

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\ReportServer
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: LName
 Type: REG_SZ
 Data: ReportServer\$

Value 1
 Name: Name
 Type: REG_SZ
 Data: ReportServer

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x6

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SQL Agent
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: Name
 Type: REG_SZ
 Data: SQLSERVERAGENT

Value 1
 Name: LName
 Type: REG_SZ
 Data: SQLAgent\$

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x2

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SQL Browser
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: LName
 Type: REG_SZ
 Data:

Value 1
 Name: Name
 Type: REG_SZ
 Data: SQLBrowser

Value 2
 Name: Type

Type: REG_DWORD
 Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SQL Server
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: Name
 Type: REG_SZ
 Data: MSSQLServer

Value 1
 Name: LName
 Type: REG_SZ
 Data: MSSQL\$

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SSIS Server
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM

Value 0
 Name: GroupPrefix
 Type: REG_SZ
 Data: SQLServer2005DTSUser\$TPCC-ZORRO

Value 1
 Name: LName
 Type: REG_SZ
 Data:

Value 2
 Name: Name
 Type: REG_SZ
 Data: MsDtsServer

Value 3
 Name: Type
 Type: REG_DWORD
 Data: 0x4

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\SQLXML4
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:58 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\SQLXML4\CurrentVersion
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:58 AM

Value 0

Name: Version
Type: REG_SZ
Data: 9.00.1314.06

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\SQLXML4\MSIRefCount
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:58 AM
Value 0
Name: Uninstall
Type: REG_SZ
Data: {11111111-1111-1111-1111-111111111111}, {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Software_Microsoft_MSSQLServer

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0
Class Name: <NO CLASS>
Last Write Time: 11/7/2005 - 10:47 AM

Value 0
Name: ProtocolsSupported
Type: REG_MULTI_SZ
Data: sm
tcp
np
via

Value 1
Name: ProtocolOrder
Type: REG_MULTI_SZ
Data: sm
np

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\GeneralFlags
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: NumberOfFlags
Type: REG_DWORD
Data: 0x2

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\GeneralFlags\Flag1
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: Label
Type: REG_SZ
Data: Force protocol encryption

Value 1
Name: Value
Type: REG_DWORD
Data: 0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\GeneralFlags\Flag2
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: Label
Type: REG_SZ
Data: Trust Server Certificate

Value 1
Name: Value
Type: REG_DWORD
Data: 0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0>LastConnect
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\np
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
Name: DLLname
Type: REG_SZ
Data: SQLNCLI

Value 1
Name: NumberOfFlags
Type: REG_DWORD
Data: 0

Value 2
Name: NumberOfProperties
Type: REG_DWORD
Data: 0x1

Value 3

Name: ProtocolName
Type: REG_SZ
Data: Named Pipes

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\np\Property1

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: Name
Type: REG_SZ
Data: Default Pipe

Value 1
Name: Value
Type: REG_SZ
Data: sql\query

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\sm

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: DLLname
Type: REG_SZ
Data: SQLNCLI

Value 1
Name: NumberOfFlags
Type: REG_DWORD
Data: 0

Value 2
Name: NumberOfProperties
Type: REG_DWORD
Data: 0

Value 3
Name: ProtocolName
Type: REG_SZ
Data: Shared Memory

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\tcp

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: DLLname
Type: REG_SZ
Data: SQLNCLI

Value 1
Name: NumberOfFlags
Type: REG_DWORD
Data: 0

Value 2
Name: NumberOfProperties
Type: REG_DWORD
Data: 0x3

Value 3
Name: ProtocolName
Type: REG_SZ
Data: TCP/IP

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\tcp\Property1

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: Name
Type: REG_SZ
Data: Default Port

Value 1
Name: Value
Type: REG_DWORD
Data: 0x599

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\tcp\Property2

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: Name
Type: REG_SZ
Data: KEEPALIVE (in milliseconds)

Value 1
Name: Value
Type: REG_DWORD
Data: 0x7530

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\tcp\Property3

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: Name
Type: REG_SZ
Data: KEEPALIVEINTERVAL (in milliseconds)

Value 1
Name: Value
Type: REG_DWORD
Data: 0x3e8

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\VIA
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: DLLname
Type: REG_SZ
Data: SQLNCLI

Value 1
Name: NumberOfFlags
Type: REG_DWORD
Data: 0

Value 2
Name: NumberOfProperties
Type: REG_DWORD
Data: 0x2

Value 3
Name: ProtocolName
Type: REG_SZ
Data: VIA

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\VIA\Proper
ty1

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: Name
Type: REG_SZ
Data: Default Server Port

Value 1
Name: Value
Type: REG_SZ
Data: 0:1433

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SNI9.0\VIA\Proper
ty2

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: Name
Type: REG_SZ
Data: Default Client NIC

Value 1
Name: Value
Type: REG_SZ
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\CurrentVersi
on
Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM

Value 0
Name: CurrentVersion
Type: REG_SZ
Data: 9.00.1314.06

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocketN
etLib

Class Name: <NO CLASS>
Last Write Time: 1/7/2006 - 5:01 PM

Value 0
Name: ProtocolList
Type: REG_MULTI_SZ
Data: np

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocketN
etLib\Np

Class Name: <NO CLASS>
Last Write Time: 9/8/2005 - 10:31 AM

Value 0
Name: PipeName
Type: REG_SZ
Data: \\.\pipe\sql\query

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocketN
etLib\Tcp

Class Name: <NO CLASS>
Last Write Time: 9/27/2005 - 11:00 AM

Value 0
Name: TcpPort
Type: REG_SZ
Data: 1433

Key Name:
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocketN
etLib\VIA

Class Name: <NO CLASS>
Last Write Time: 9/20/2005 - 9:36 AM

Value 0
Name: Vendor
Type: REG_SZ
Data: Unisys

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Setup
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 AM
 Value 0
 Name: SQLPath
 Type: REG_SZ
 Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL

Software_Unisys_IntelligentFibre

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\UNISYS\Intelligent Fibre
 Utility
 Class Name: <NO CLASS>
 Last Write Time: 7/28/2005 - 1:54 PM
 Value 0
 Name: AccessTuning
 Type: REG_DWORD
 Data: 0x1

CurrentControlSet\Control\Session Manager\I/O System

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\I/O System
 Class Name: <NO CLASS>
 Last Write Time: 8/16/2005 - 4:46 PM
 Value 0
 Name: CountOperations
 Type: REG_DWORD
 Data: 0

CurrentControlSet\Services\Ibfa

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ibfa
 Class Name: <NO CLASS>
 Last Write Time: 1/24/2006 - 11:20 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: Tag
 Type: REG_DWORD
 Data: 0x4
 Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\ibfa.sys
 Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: Unisys Intelligent Fibre Channel Adapter SCSI Processor
 Value 6
 Name: Group
 Type: REG_SZ
 Data: SCSI Class

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Ibfa\Security
 Class Name: <NO CLASS>
 Last Write Time: 7/25/2005 - 11:58 AM
 Value 0
 Name: Security
 Type: REG_BINARY
 Data:
 00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
Ä.....
 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 88 00 06 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 04 00 00 00 - 00 00 14 00 8d 01 02 00

 00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00

 00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00

 000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
 ...Ÿ.....
 000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
 ...#.....

000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifba\Enum
Class Name: <NO CLASS>
Last Write Time: 1/24/2006 - 11:20 AM
Value 0

Name: 0
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&1856da93&0&B004560B00080010

Value 1
Name: Count
Type: REG_DWORD
Data: 0x10

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x10

Value 3
Name: 1
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&1856da93&0&B104560B00080010

Value 4
Name: 2
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&2c288843&0&E804560B00080010

Value 5
Name: 3
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&2c288843&0&E904560B00080010

Value 6
Name: 4
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&dce4a85&0&EC04560B00080010

Value 7
Name: 5
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&dce4a85&0&ED04560B00080010

Value 8
Name: 6
Type: REG_SZ

Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&3b08969c&0&7433560B00080010

Value 9
Name: 7
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&3b08969c&0&7533560B00080010

Value 10
Name: 8
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&2e8a254e&0&0C0A560B00080010

Value 11
Name: 9
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&2e8a254e&0&0D0A560B00080010

Value 12
Name: 10
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&2b66f4f0&0&2409560B00080010

Value 13
Name: 11
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&2b66f4f0&0&2509560B00080010

Value 14
Name: 12
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&182cae01&0&B804560B00080010

Value 15
Name: 13
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&182cae01&0&B904560B00080010

Value 16
Name: 14
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&30bd363f&0&A004560B00080010

Value 17
Name: 15
Type: REG_SZ
Data: SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&30bd363f&0&A104560B00080010

CurrentControlSet\Services\ifdisk

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifdisk
 Class Name: <NO CLASS>
 Last Write Time: 1/24/2006 - 11:20 AM
 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: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\ifdisk.sys

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Unisys Intelligent Fibre Channel Fabric Disk Driver

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifdisk\Security
 Class Name: <NO CLASS>
 Last Write Time: 7/28/2005 - 1:29 PM
 Value 0
 Name: Security
 Type: REG_BINARY
 Data:
 00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
Ä.....
 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 88 00 06 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 04 00 00 00 - 00 00 14 00 8d 01 02 00


```
00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00
.....
00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
.....
000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
....Ÿ.....
000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
...#.....
000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
.....
```

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifdisk\Enum
 Class Name: <NO CLASS>
 Last Write Time: 1/24/2006 - 11:20 AM
 Value 0
 Name: 0
 Type: REG_SZ
 Data: SCSI\Disk&Ven_DGC_____RAID_10_____0206\1&2d12bed1&0&B81121106001065000
 000000000001000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x48

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x48

Value 3
 Name: 1
 Type: REG_SZ
 Data: SCSI\Disk&Ven_DGC_____RAID_10_____0206\1&2d12bed1&0&B81121106001065000
 0000000000000000

Value 4
 Name: 2
 Type: REG_SZ
 Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
 00000000000A000

Value 5
 Name: 3
 Type: REG_SZ
 Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
 000000000009000

Value 6
 Name: 4
 Type: REG_SZ

Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000008000	Value 15 Name: 13 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 00000000000A000
Value 7 Name: 5 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000007000	Value 16 Name: 14 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000009000
Value 8 Name: 6 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000006000	Value 17 Name: 15 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000008000
Value 9 Name: 7 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000005000	Value 18 Name: 16 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000006000
Value 10 Name: 8 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000004000	Value 19 Name: 17 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000005000
Value 11 Name: 9 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000003000	Value 20 Name: 18 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000004000
Value 12 Name: 10 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000002000	Value 21 Name: 19 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000003000
Value 13 Name: 11 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000001000	Value 22 Name: 20 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000002000
Value 14 Name: 12 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000007000	Value 23 Name: 21

Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000001000

Value 24
Name: 22
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
00000000000A000

Value 25
Name: 23
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000009000

Value 26
Name: 24
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000008000

Value 27
Name: 25
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000007000

Value 28
Name: 26
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000006000

Value 29
Name: 27
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000005000

Value 30
Name: 28
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000004000

Value 31
Name: 29
Type: REG_SZ

Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000003000

Value 32
Name: 30
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000002000

Value 33
Name: 31
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000001000

Value 34
Name: 32
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
00000000000A000

Value 35
Name: 33
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000009000

Value 36
Name: 34
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000008000

Value 37
Name: 35
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000007000

Value 38
Name: 36
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000006000

Value 39
Name: 37
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000005000

Value 40	Type: REG_SZ
Name: 38	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000006000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000	Value 49
000000000004000	Name: 47
Value 41	Type: REG_SZ
Name: 39	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000005000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000	Value 50
000000000003000	Name: 48
Value 42	Type: REG_SZ
Name: 40	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000004000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000	Value 51
000000000002000	Name: 49
Value 43	Type: REG_SZ
Name: 41	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000003000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000	Value 52
000000000001000	Name: 50
Value 44	Type: REG_SZ
Name: 42	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000002000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000	Value 53
000000000007000	Name: 51
Value 45	Type: REG_SZ
Name: 43	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000001000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000	Value 54
00000000000A000	Name: 52
Value 46	Type: REG_SZ
Name: 44	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000
Type: REG_SZ	00000000000A000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000	Value 55
000000000009000	Name: 53
Value 47	Type: REG_SZ
Name: 45	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000
Type: REG_SZ	000000000009000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000	Value 56
000000000008000	Name: 54
Value 48	Type: REG_SZ
Name: 46	

Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000008000	Value 65 Name: 63 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000009000
Value 57 Name: 55 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000007000	Value 66 Name: 64 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000008000
Value 58 Name: 56 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000006000	Value 67 Name: 65 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000007000
Value 59 Name: 57 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000005000	Value 68 Name: 66 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000006000
Value 60 Name: 58 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000004000	Value 69 Name: 67 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000005000
Value 61 Name: 59 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000003000	Value 70 Name: 68 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000004000
Value 62 Name: 60 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000002000	Value 71 Name: 69 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000003000
Value 63 Name: 61 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000001000	Value 72 Name: 70 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000002000
Value 64 Name: 62 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 00000000000A000	Value 73 Name: 71

Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000
000000000001000

CurrentControlSet\Services\IfIp

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp
Class Name: <NO CLASS>
Last Write Time: 1/24/2006 - 11:18 AM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x1
Value 1
Name: Start
Type: REG_DWORD
Data: 0
Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1
Value 3
Name: Tag
Type: REG_DWORD
Data: 0x7
Value 4
Name: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\IfIp.sys
Value 5
Name: DisplayName
Type: REG_SZ
Data: Unisys Intelligent Fibre Channel Fabric Bus Enumerator
Value 6
Name: Group
Type: REG_SZ
Data: Boot Bus Extender

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp\Security
Class Name: <NO CLASS>
Last Write Time: 7/25/2005 - 12:00 PM
Value 0
Name: Security
Type: REG_BINARY

Data:
00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
.....Ä.....
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 88 00 06 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 04 00 00 00 - 00 00 14 00 8d 01 02 00
.....
00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00
.....
00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
.....
000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
....ÿ.....
000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
...#.....
000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp\Enum
Class Name: <NO CLASS>
Last Write Time: 1/24/2006 - 11:18 AM
Value 0
Name: 0
Type: REG_SZ
Data: Root\SYSTEM\0003
Value 1
Name: Count
Type: REG_DWORD
Data: 0x1
Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x1

CurrentControlSet\Services\ifxp

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp
Class Name: <NO CLASS>
Last Write Time: 1/24/2006 - 11:18 AM

```

Value 0
  Name:      Type
  Type:     REG_DWORD
  Data:     0x1

Value 1
  Name:      Start
  Type:     REG_DWORD
  Data:     0

Value 2
  Name:      ErrorControl
  Type:     REG_DWORD
  Data:     0x1

Value 3
  Name:      Tag
  Type:     REG_DWORD
  Data:     0x21

Value 4
  Name:      ImagePath
  Type:     REG_EXPAND_SZ
  Data:     system32\DRIVERS\ifxp.sys

Value 5
  Name:      DisplayName
  Type:     REG_SZ
  Data:     Unisys Intelligent Fibre Channel Fabric Bus Adapter

Value 6
  Name:      Group
  Type:     REG_SZ
  Data:     SCSI Miniport

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Parameters
Class Name: <NO CLASS>
Last Write Time: 7/25/2005 - 11:53 AM

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Parameters\PnpIn
terface
Class Name: <NO CLASS>
Last Write Time: 7/25/2005 - 11:53 AM
Value 0
  Name:      5
  Type:     REG_DWORD
  Data:     0x1

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Security
Class Name: <NO CLASS>
Last Write Time: 7/25/2005 - 11:53 AM
Value 0
  Name:      Security
  Type:     REG_BINARY

```

```

Data:
00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
.....Ä.....
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 88 00 06 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 04 00 00 00 - 00 00 14 00 8d 01 02 00
.....
00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00
.....
00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
.....
000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
...ÿ.....
000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
...#.....
000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Enum
Class Name: <NO CLASS>
Last Write Time: 1/24/2006 - 11:18 AM
Value 0
  Name:      0
  Type:     REG_SZ
  Data:     PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&35728da7&0&0008E8

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_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&17f7f795&0&0008F8

Value 4
  Name:      2
  Type:     REG_SZ

```

```

Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&63cb3c2&0&0008E8
Value 5
Name: 3
Type: REG_SZ
Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&34fd2864&0&0008F8
Value 6
Name: 4
Type: REG_SZ
Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&11e963dd&0&0008E8
Value 7
Name: 5
Type: REG_SZ
Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&4a36ef4&0&0008F8
Value 8
Name: 6
Type: REG_SZ
Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&274dcb0&0&0008E8
Value 9
Name: 7
Type: REG_SZ
Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&2bc6862c&0&0008F8

```

CurrentControlSet\Services\lpkdrv

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpkdrv
Class Name: <NO CLASS>
Last Write Time: 1/24/2006 - 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: ImagePath
Type: REG_EXPAND_SZ
Data: system32\DRIVERS\lpkdrv.sys
Value 4
Name: DisplayName
Type: REG_SZ
Data: lpkdrv
Value 5
Name: Description
Type: REG_SZ
Data: LPXKSLI2 driver.
Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpkdrv\Affinity
Class Name: <NO CLASS>
Last Write Time: 8/11/2005 - 8:12 AM
Value 0
Name: 0
Type: REG_DWORD
Data: 0xffffffff
Value 1
Name: 1
Type: REG_DWORD
Data: 0xffffffff
Value 2
Name: 2
Type: REG_DWORD
Data: 0xffffffff
Value 3
Name: 3
Type: REG_DWORD
Data: 0xffffffff
Value 4
Name: 4
Type: REG_DWORD
Data: 0xffffffff
Value 5
Name: 5
Type: REG_DWORD
Data: 0xffffffff
Value 6
Name: 6
Type: REG_DWORD
Data: 0xffffffff
Value 7
Name: 7

```

Type: REG_DWORD
Data: 0xffffffff

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpxkdrv\Coalesce
Class Name: <NO CLASS>
Last Write Time: 1/22/2006 - 5:13 PM

Value 0
Name: 0
Type: REG_DWORD
Data: 0xc5140000

Value 1
Name: 1
Type: REG_DWORD
Data: 0xc5140000

Value 2
Name: 2
Type: REG_DWORD
Data: 0xc5140000

Value 3
Name: 3
Type: REG_DWORD
Data: 0xc5140000

Value 4
Name: 4
Type: REG_DWORD
Data: 0xc5140000

Value 5
Name: 5
Type: REG_DWORD
Data: 0xc5140000

Value 6
Name: 6
Type: REG_DWORD
Data: 0xc5140000

Value 7
Name: 7
Type: REG_DWORD
Data: 0xc5140000

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpxkdrv\Security
Class Name: <NO CLASS>
Last Write Time: 8/11/2005 - 8:12 AM

Value 0
Name: Security
Type: REG_BINARY
Data:

00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
.....Ä.....

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 88 00 06 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 04 00 00 00 - 00 00 14 00 8d 01 02 00
.....
00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00
.....
00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
.....
000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
.....ÿ.....
000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
...#.....
000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpxkdrv\TgtIntCnt
Class Name: <NO CLASS>
Last Write Time: 8/11/2005 - 8:12 AM

Value 0
Name: 0
Type: REG_DWORD
Data: 0

Value 1
Name: 1
Type: REG_DWORD
Data: 0

Value 2
Name: 2
Type: REG_DWORD
Data: 0

Value 3
Name: 3
Type: REG_DWORD
Data: 0

Value 4
Name: 4
Type: REG_DWORD
Data: 0

Value 5
Name: 5
Type: REG_DWORD

Data: 0

Value 6
 Name: 6
 Type: REG_DWORD
 Data: 0

Value 7
 Name: 7
 Type: REG_DWORD
 Data: 0

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpkdrv\Enum
 Class Name: <NO CLASS>
 Last Write Time: 1/24/2006 - 11:18 AM

Value 0
 Name: 0
 Type: REG_SZ
 Data: PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\4&28be6aa6&0&08F8

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

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

Value 3
 Name: 1
 Type: REG_SZ
 Data: PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\4&28be6aa6&0&09F8

Value 4
 Name: 2
 Type: REG_SZ
 Data: PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\4&14ebe0a&0&08F8

Value 5
 Name: 3
 Type: REG_SZ
 Data: PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\4&14ebe0a&0&09F8

CurrentControlSet\Services\MSSQLSERVER

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER

Class Name: <NO CLASS>
 Last Write Time: 1/24/2006 - 11:18 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\MSSQL.1\MSSQL\Binn\sqlservr.exe" -sMSSQLSERVER

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: SQL Server (MSSQLSERVER)

Value 5
 Name: ObjectName
 Type: REG_SZ
 Data: LocalSystem

Value 6
 Name: Description
 Type: REG_SZ
 Data: Provides storage, processing and controlled access of data and rapid transaction processing.

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Linkage
 Class Name: <NO CLASS>
 Last Write Time: 9/8/2005 - 9:57 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: 9/8/2005 - 10:12 AM

Value 0
 Name: Library
 Type: REG_SZ
 Data: sqlctr90.dll

```

Value 1
  Name:      Open
  Type:      REG_SZ
  Data:      OpenSQLPerformanceData1

Value 2
  Name:      Collect
  Type:      REG_SZ
  Data:      CollectSQLPerformanceData1

Value 3
  Name:      Close
  Type:      REG_SZ
  Data:      CloseSQLPerformanceData1

Value 4
  Name:      PerfIniFile
  Type:      REG_SZ
  Data:      perf-MSSQLSERVERsqlctr.ini

Value 5
  Name:      Last Counter
  Type:      REG_DWORD
  Data:      0x179c

Value 6
  Name:      Last Help
  Type:      REG_DWORD
  Data:      0x179d

Value 7
  Name:      First Counter
  Type:      REG_DWORD
  Data:      0x1528

Value 8
  Name:      First Help
  Type:      REG_DWORD
  Data:      0x1529

Value 9
  Name:      Library Validation Code
  Type:      REG_BINARY
  Data:      00000000 00 54 b1 3a bb b0 c5 01 - d8 34 01 00 00 00 00 00
  .T±:»°Å.04.....

Value 10
  Name:      WbemAdapFileSignature
  Type:      REG_BINARY
  Data:      00000000 b3 51 9f d0 11 74 3a 47 - e7 39 c3 29 00 f2 66 68
  ³Q.Đ.t:Gç9Ã).øfh

Value 11
  Name:      WbemAdapFileTime

```

```

  Type:      REG_BINARY
  Data:      00 54 b1 3a bb b0 c5 01 - .T±:»°Å.

Value 12
  Name:      WbemAdapFileSize
  Type:      REG_DWORD
  Data:      0x134d8

Value 13
  Name:      WbemAdapStatus
  Type:      REG_DWORD
  Data:      0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Security
Class Name:      <NO CLASS>
Last Write Time: 9/8/2005 - 9:57 AM
Value 0
  Name:      Security
  Type:      REG_BINARY
  Data:      00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
  .....Ä.....
  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 88 00 06 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 04 00 00 00 - 00 00 14 00 8d 01 02 00
  .....
  00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00
  .....
  00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
  .....
  000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 05
  ....ý.....
  000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 05
  ...#.....
  000000c0 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: 1/24/2006 - 11:18 AM
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

CurrentControlSet\Services\PartMgr

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PartMgr
 Class Name: <NO CLASS>
 Last Write Time: 1/24/2006 - 11:18 AM

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: 0x5

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: 1/24/2006 - 11:20 AM

Value 0
 Name: 0

Type: REG_SZ
 Data: Root\LEGACY_PARTMGR\0000

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x4a

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x4a

Value 3
 Name: 1
 Type: REG_SZ
 Data: SCSI\Disk&Ven_ADAPTEC&Prod_RAID_1&Rev_1.0\5344567f4&0&700

Value 4
 Name: 2
 Type: REG_SZ
 Data: SCSI\Disk&Ven_DGC_____RAID_10_____0206\1&2d12bed1&0&B81121106001065000
 000000000001000

Value 5
 Name: 3
 Type: REG_SZ
 Data: SCSI\Disk&Ven_DGC_____RAID_10_____0206\1&2d12bed1&0&B81121106001065000
 0000000000000000

Value 6
 Name: 4
 Type: REG_SZ
 Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
 00000000000A000

Value 7
 Name: 5
 Type: REG_SZ
 Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
 000000000009000

Value 8
 Name: 6
 Type: REG_SZ
 Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
 000000000008000

Value 9
 Name: 7
 Type: REG_SZ

Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000007000	Value 18 Name: 16 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000009000
Value 10 Name: 8 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000006000	Value 19 Name: 17 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000008000
Value 11 Name: 9 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000005000	Value 20 Name: 18 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000006000
Value 12 Name: 10 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000004000	Value 21 Name: 19 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000005000
Value 13 Name: 11 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000003000	Value 22 Name: 20 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000004000
Value 14 Name: 12 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000002000	Value 23 Name: 21 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000003000
Value 15 Name: 13 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000 000000000001000	Value 24 Name: 22 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000002000
Value 16 Name: 14 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000007000	Value 25 Name: 23 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 000000000001000
Value 17 Name: 15 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000 00000000000A000	Value 26 Name: 24

```

Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
00000000000A000

Value 27
Name:          25
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000009000

Value 28
Name:          26
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000008000

Value 29
Name:          27
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000007000

Value 30
Name:          28
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000006000

Value 31
Name:          29
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000005000

Value 32
Name:          30
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000004000

Value 33
Name:          31
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000003000

Value 34
Name:          32
Type:          REG_SZ

```

```

Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000002000

Value 35
Name:          33
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000001000

Value 36
Name:          34
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
00000000000A000

Value 37
Name:          35
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000009000

Value 38
Name:          36
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000008000

Value 39
Name:          37
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000007000

Value 40
Name:          38
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000006000

Value 41
Name:          39
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000005000

Value 42
Name:          40
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000
000000000004000

```

Value 43	Type: REG_SZ
Name: 41	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000005000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000	Value 52
000000000003000	Name: 50
Value 44	Type: REG_SZ
Name: 42	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000004000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000	Value 53
000000000002000	Name: 51
Value 45	Type: REG_SZ
Name: 43	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000003000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F00861000001000	Value 54
000000000001000	Name: 52
Value 46	Type: REG_SZ
Name: 44	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000002000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000	Value 55
000000000007000	Name: 53
Value 47	Type: REG_SZ
Name: 45	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
Type: REG_SZ	000000000001000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000	Value 56
00000000000A000	Name: 54
Value 48	Type: REG_SZ
Name: 46	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000
Type: REG_SZ	00000000000A000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000	Value 57
000000000009000	Name: 55
Value 49	Type: REG_SZ
Name: 47	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000
Type: REG_SZ	000000000009000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000	Value 58
000000000008000	Name: 56
Value 50	Type: REG_SZ
Name: 48	Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000
Type: REG_SZ	000000000008000
Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000	Value 59
000000000006000	Name: 57
Value 51	Type: REG_SZ
Name: 49	

Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000007000	Value 68 Name: 66 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000008000
Value 60 Name: 58 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000006000	Value 69 Name: 67 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000007000
Value 61 Name: 59 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000005000	Value 70 Name: 68 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000006000
Value 62 Name: 60 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000004000	Value 71 Name: 69 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000005000
Value 63 Name: 61 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000003000	Value 72 Name: 70 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000004000
Value 64 Name: 62 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000002000	Value 73 Name: 71 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000003000
Value 65 Name: 63 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000 000000000001000	Value 74 Name: 72 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000002000
Value 66 Name: 64 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 00000000000A000	Value 75 Name: 73 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000001000
Value 67 Name: 65 Type: REG_SZ Data: SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000 000000000009000	

Windows 2003 Server Client Configuration Information

(Common to 4 clients except for System Name, IP Address & MAC Address)

Hwconfig.ver

System Information report written at: 01/24/06 16:02:51

System Name: CLIENT1
[System Summary]

```

Item      Value
OS Name Microsoft(R) Windows(R) Server 2003, Standard Edition
Version 5.2.3790 Service Pack 1 Build 3790
Other OS Description Not Available
OS Manufacturer Microsoft Corporation
System Name CLIENT1
System Manufacturer Unisys System
System Model ES3120L
System Type X86-based PC
Processor x86 Family 15 Model 4 Stepping 3 GenuineIntel ~3391 Mhz

Processor x86 Family 15 Model 4 Stepping 3 GenuineIntel ~3391 Mhz

Processor x86 Family 15 Model 4 Stepping 3 GenuineIntel ~3391 Mhz

Processor x86 Family 15 Model 4 Stepping 3 GenuineIntel ~3391 Mhz

BIOS Version/Date Unisys System A02, 1/19/2005
SMBIOS Version 2.3
Windows Directory C:\WINDOWS
System Directory C:\WINDOWS\system32
Boot Device \Device\HarddiskVolume1
Locale United States
Hardware Abstraction Layer Version = "5.2.3790.1830
(srv03_sp1_rtm.050324-1447)"
User Name CLIENT1\Administrator
Time Zone Pacific Standard Time
Total Physical Memory 2,047.27 MB
Available Physical Memory 1.74 GB
Total Virtual Memory 3.85 GB
Available Virtual Memory 3.75 GB
Page File Space 2.00 GB
Page File C:\pagefile.sys

```

[Hardware Resources]

[Conflicts/Sharing]

Resource	Device
I/O Port 0x00000000-0x00000CF7	PCI bus
I/O Port 0x00000000-0x00000CF7	Direct memory access controller

Memory Address 0xD8000000-0xD8FFFFFF	Intel(R) E7525/E7520/E7320 PCI Express Root Port A0 - 3595
Memory Address 0xD8000000-0xD8FFFFFF	PCI standard PCI-to-PCI bridge

I/O Port 0x0000E000-0x0000EFFF	Intel(R) E7525/E7520/E7320 PCI Express Root Port A0 - 3595
I/O Port 0x0000E000-0x0000EFFF	PCI standard PCI-to-PCI bridge

I/O Port 0x0000B000-0x0000BFFF	Intel(R) E7520 PCI Express Root Port C0 - 3599
--------------------------------	--

I/O Port 0x0000B000-0x0000BFFF	Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A
--------------------------------	---

IRQ 16	Intel(R) E7525/E7520/E7320 PCI Express Root Port A0 - 3595
IRQ 16	Intel(R) E7525/E7520 PCI Express Root Port B0 - 3597
IRQ 16	Intel(R) E7520 PCI Express Root Port B1 - 3598
IRQ 16	Intel(R) E7520 PCI Express Root Port C0 - 3599
IRQ 16	Standard Universal PCI to USB Host Controller

IRQ 18	Standard Universal PCI to USB Host Controller
IRQ 18	RADEON 7000 RADEON VE Family (Microsoft Corporation)

Memory Address 0xA0000-0xBFFFF	PCI bus
Memory Address 0xA0000-0xBFFFF	RADEON 7000 RADEON VE Family (Microsoft Corporation)

I/O Port 0x0000C000-0x0000DFFF	Intel(R) E7520 PCI Express Root Port B1 - 3598
--------------------------------	--

I/O Port 0x0000C000-0x0000DFFF	Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A
--------------------------------	---

[DMA]

Resource	Device	Status
Channel 4	Direct memory access controller	OK
Channel 2	Standard floppy disk controller	OK

[Forced Hardware]

Device PNP Device ID

[I/O]

Resource	Device	Status
0x00000000-0x00000CF7	PCI bus	OK
0x00000000-0x00000CF7	Direct memory access controller	OK
0x00000D00-0x0000FFFF	PCI bus	OK
0x0000E000-0x0000EFFF	Intel(R) E7525/E7520/E7320 PCI Express Root Port A0 - 3595	OK
0x0000E000-0x0000EFFF	PCI standard PCI-to-PCI bridge	OK
0x0000EC00-0x0000ECFF	LSI Logic PCI-X Ultra320 SCSI Host Adapter	OK
0x0000E800-0x0000E8FF	LSI Logic PCI-X Ultra320 SCSI Host Adapter	OK
0x0000C000-0x0000DFFF	Intel(R) E7520 PCI Express Root Port B1 - 3598	OK

0x0000C000-0x0000DFFF	Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A	
OK		
0x0000D000-0x0000DFFF	Intel(R) 6700PXH PCI Express-to-PCI Bridge A - 0329	
OK		
0x0000DCC0-0x0000DCFF	Intel(R) PRO/1000 MT Network Connection	OK
0x0000CCC0-0x0000CCFF	Intel(R) PRO/1000 MT Network Connection #2	OK
0x0000B000-0x0000BFFF	Intel(R) E7520 PCI Express Root Port C0 - 3599	
OK		
0x0000B000-0x0000BFFF	Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A	
OK		
0x00009CE0-0x00009CFF	Standard Universal PCI to USB Host Controller	
OK		
0x00009CC0-0x00009CDF	Standard Universal PCI to USB Host Controller	
OK		
0x00009CA0-0x00009CBF	Standard Universal PCI to USB Host Controller	
OK		
0x0000AC00-0x0000ACFF	RADEON 7000 RADEON VE Family (Microsoft Corporation)	OK
0x000003B0-0x000003BB	RADEON 7000 RADEON VE Family (Microsoft Corporation)	OK
0x000003C0-0x000003DF	RADEON 7000 RADEON VE Family (Microsoft Corporation)	OK
0x00000A79-0x00000A79	ISAPNP Read Data Port	OK
0x00000279-0x00000279	ISAPNP Read Data Port	OK
0x00000274-0x00000277	ISAPNP Read Data Port	OK
0x00000080-0x0000009F	Direct memory access controller	OK
0x000000C0-0x000000DF	Direct memory access controller	OK
0x000000F0-0x000000FF	Numeric data processor	OK
0x00000020-0x0000003F	Programmable interrupt controller	OK
0x000000A0-0x000000BF	Programmable interrupt controller	OK
0x000004D0-0x000004D1	Programmable interrupt controller	OK
0x00000061-0x00000061	System speaker	OK
0x00000070-0x0000007F	System CMOS/real time clock	OK
0x00000040-0x0000005F	System timer	OK
0x000003F0-0x000003F5	Standard floppy disk controller	OK
0x000003F7-0x000003F7	Standard floppy disk controller	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
0x000003F8-0x000003FF	Communications Port (COM1)	OK
0x00000800-0x0000087F	System board	OK
0x00000880-0x000008BF	System board	OK
0x000008C0-0x000008DF	System board	OK
0x00000C00-0x00000C0F	System board	OK
0x00000C10-0x00000C1F	System board	OK
0x00000CA0-0x00000CAF	System board	OK
0x00000C20-0x00000C3F	System board	OK
0x000000E0-0x000000E7	System board	OK
0x0000FC00-0x0000FC0F	Intel(R) 82801EB Ultra ATA Storage Controllers - 24DB	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

Resource	Device	Status
IRQ 9	Microsoft ACPI-Compliant System	OK
IRQ 16	Intel(R) E7525/E7520/E7320 PCI Express Root Port A0 - 3595	OK
IRQ 16	Intel(R) E7525/E7520 PCI Express Root Port B0 - 3597	OK
IRQ 16	Intel(R) E7520 PCI Express Root Port B1 - 3598	OK
IRQ 16	Intel(R) E7520 PCI Express Root Port C0 - 3599	OK
IRQ 16	Standard Universal PCI to USB Host Controller	OK
IRQ 34	LSI Logic PCI-X Ultra320 SCSI Host Adapter	OK
IRQ 33	LSI Logic PCI-X Ultra320 SCSI Host Adapter	OK
IRQ 64	Intel(R) PRO/1000 MT Network Connection	OK
IRQ 65	Intel(R) PRO/1000 MT Network Connection #2	OK
IRQ 101	Emulex LP 10000 - Unisys VI	OK
IRQ 102	Emulex LP 10000 - Unisys VI	OK
IRQ 19	Standard Universal PCI to USB Host Controller	OK
IRQ 18	Standard Universal PCI to USB Host Controller	OK
IRQ 18	RADEON 7000 RADEON VE Family (Microsoft Corporation)	OK
IRQ 23	Standard Enhanced PCI to USB Host Controller	OK
IRQ 13	Numeric data processor	OK
IRQ 8	System CMOS/real time clock	OK
IRQ 0	System timer	OK
IRQ 6	Standard floppy disk controller	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 14	Primary IDE Channel	OK
IRQ 15	Secondary IDE Channel	OK

[Memory]

Resource	Device	Status
0xA0000-0xBFFFF	PCI bus	OK
0xA0000-0xBFFFF	RADEON 7000 RADEON VE Family (Microsoft Corporation)	OK
0x80000000-0xFEBFFFFFF	PCI bus	OK
0xDFC00000-0xDFEFFFFFF	Intel(R) E7525/E7520/E7320 PCI Express Root Port A0 - 3595	OK
0xD8000000-0xD8FFFFFF	Intel(R) E7525/E7520/E7320 PCI Express Root Port A0 - 3595	OK
0xD8000000-0xD8FFFFFF	PCI standard PCI-to-PCI bridge	OK
0xDFD00000-0xDFEFFFFFF	PCI standard PCI-to-PCI bridge	OK
0xDFDF0000-0xDFDFFFFFF	LSI Logic PCI-X Ultra320 SCSI Host Adapter	OK
0xDFDE0000-0xDFDEFFFF	LSI Logic PCI-X Ultra320 SCSI Host Adapter	OK
0xDFDD0000-0xDFDDFFFF	LSI Logic PCI-X Ultra320 SCSI Host Adapter	OK
0xDFDC0000-0xDFDCFFFF	LSI Logic PCI-X Ultra320 SCSI Host Adapter	OK
0xDF700000-0xDFBFFFFFF	Intel(R) E7520 PCI Express Root Port B1 - 3598	OK
0xDFA00000-0xDFBFFFFFF	Intel(R) 6700PXH PCI Express-to-PCI Bridge A - 0329	OK
0xDFAE0000-0xDFAFFFFFF	Intel(R) PRO/1000 MT Network Connection	OK
0xDF800000-0xDF9FFFFFF	Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A	OK

[IRQs]

```

0xDF8E0000-0xDF8FFFFFF Intel(R) PRO/1000 MT Network Connection #2 OK
0xDF400000-0xDF6FFFFFF Intel(R) E7520 PCI Express Root Port C0 - 3599
OK
0xDF500000-0xDF6FFFFFF Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A
OK
0xDF5FF000-0xDF5FFFFFF Emulex LP 10000 - Unisys VI OK
0xDF5FEC00-0xDF5FECFF Emulex LP 10000 - Unisys VI OK
0xDF5FD000-0xDF5FDFFF Emulex LP 10000 - Unisys VI OK
0xDF5FE800-0xDF5FE8FF Emulex LP 10000 - Unisys VI OK
0xDFF00000-0xDFF003FF Standard Enhanced PCI to USB Host Controller OK

0xD0000000-0xD7FFFFFFF RADEON 7000 RADEON VE Family (Microsoft
Corporation) OK
0xDF2F0000-0xDF2FFFFFF RADEON 7000 RADEON VE Family (Microsoft
Corporation) OK
0xFEBFFC00-0xFEBFFFFFF Intel(R) 82801EB Ultra ATA Storage Controllers -
24DB OK
0xE0000000-0xEFFFFFFF Motherboard resources OK
0xFED00000-0xFED003FF High precision event timer OK

```

[Components]

[Multimedia]

[Audio Codecs]

CODEC	Manufacturer	Description	Status	File	Version	Size
		Creation Date				
c:\windows\system32\msg723.acm	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSG723.ACM	5.2.3790.1830		120.00 KB		
	(122,880 bytes)	7/22/2005 1:04 PM				
c:\windows\system32\msadp32.acm	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSADP32.ACM	5.2.3790.0 (srv03_rtm.030324-		14.50 KB (14,848 bytes)	3/25/2003 11:00 AM	
	2048)					
c:\windows\system32\msaud32.acm	Microsoft Corporation	Windows Media				
Audio Codec	OK	C:\WINDOWS\system32\MSAUD32.ACM		8.00.00.4487		
		288.00 KB (294,912 bytes)		3/25/2003 11:00 AM		
c:\windows\system32\l3codeca.acm	Fraunhofer Institut Integrierte					
Schaltungen IIS	Fraunhofer IIS MPEG Layer-3 Codec		OK			
	C:\WINDOWS\system32\L3CODECA.ACM	1, 9, 0, 0305		284.00 KB		
	(290,816 bytes)	3/25/2003 11:00 AM				
c:\windows\system32\msg711.acm	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSG711.ACM	5.2.3790.0 (srv03_rtm.030324-		10.00 KB (10,240 bytes)	3/25/2003 11:00 AM	
	2048)					
c:\windows\system32\imaadp32.acm	Microsoft Corporation		OK			
	C:\WINDOWS\system32\IMAADP32.ACM	5.2.3790.0 (srv03_rtm.030324-		15.50 KB (15,872 bytes)	3/25/2003 11:00 AM	
	2048)					
c:\windows\system32\tsssoft32.acm	DSP GROUP, INC.		OK			
	C:\WINDOWS\system32\TSSOFT32.ACM	1.01		9.50 KB (9,728 bytes)		
		3/25/2003 11:00 AM				
c:\windows\system32\msgsm32.acm	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSGSM32.ACM	5.2.3790.0 (srv03_rtm.030324-		20.50 KB (20,992 bytes)	3/25/2003 11:00 AM	
	2048)					

```

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 11:00 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-		8.00 KB (8,192 bytes)	3/24/2003 5:50 PM	
	2048)					
c:\windows\system32\iyuv_32.dll	Microsoft Corporation		OK			
	C:\WINDOWS\system32\IYUV_32.DLL	5.2.3790.1830		46.50 KB (47,616 bytes)	7/22/2005 1:04 PM	
	(srv03_spl_rtm.050324-1447)					
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 5:49 PM	
	2048)					
c:\windows\system32\msh261.drv	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSH261.DRV	5.2.3790.1830		184.00 KB		
	(188,416 bytes)	7/22/2005 1:04 PM				
c:\windows\system32\msh263.drv	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSH263.DRV	5.2.3790.1830		288.00 KB		
	(294,912 bytes)	7/22/2005 1:04 PM				
c:\windows\system32\msvidc32.dll	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSVIDC32.DLL	5.2.3790.0 (srv03_rtm.030324-		26.50 KB (27,136 bytes)	3/25/2003 11:00 AM	
	2048)					
c:\windows\system32\msrle32.dll	Microsoft Corporation		OK			
	C:\WINDOWS\system32\MSRLE32.DLL	5.2.3790.0 (srv03_rtm.030324-		10.50 KB (10,752 bytes)	3/25/2003 11:00 AM	
	2048)					

[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
Driver	c:\windows\system32\drivers\cdrom.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 51.00 KB (52,224 bytes), 3/25/2003 11:00 AM)

[Sound Device]

Item	Value
Name	RADEON 7000 RADEON VE Family (Microsoft Corporation)

[Display]

Item	Value
Name	RADEON 7000 RADEON VE Family (Microsoft Corporation)

PNP Device ID
 PCI\VEN_1002&DEV_5159&SUBSYS_016D1028&REV_00\4&1F7DBC9F&0&68F0

Adapter Type Radeon 7000 (QY), ATI Technologies Inc. compatible
 Adapter Description RADEON 7000 RADEON VE Family (Microsoft Corporation)
 Adapter RAM 16.00 MB (16,777,216 bytes)
 Installed Drivers ati2dvag.dll
 Driver Version 5.1.2600.0
 INF File atiixpag.inf (ati2mtag_RV100 section)
 Color Planes 1
 Color Table Entries 4294967296
 Resolution 800 x 600 x 60 hertz
 Bits/Pixel 32
 Memory Address 0xD0000000-0xD7FFFFFFF
 I/O Port 0x0000AC00-0x0000ACFF
 Memory Address 0xDF2F0000-0xDF2FFFFF
 IRQ Channel IRQ 18
 I/O Port 0x000003B0-0x000003BB
 I/O Port 0x000003C0-0x000003DF
 Memory Address 0xA0000-0xBFFFFF
 Driver c:\windows\system32\drivers\ati2mtag.sys (6.13.10.6153, 439.63 KB (450,176 bytes), 10/19/2004 12:30 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&26DD0F47&0
 Number of Function Keys 12
 I/O Port 0x00000060-0x0000006F
 I/O Port 0x00000064-0x0000006F
 IRQ Channel IRQ 1
 Driver c:\windows\system32\drivers\i8042prt.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 54.50 KB (55,808 bytes), 3/25/2003 11:00 AM)

[Pointing Device]

Item Value
 Hardware Type PS/2 Compatible Mouse
 Number of Buttons 5
 Status OK
 PNP Device ID ACPI\PNP0F13\4&26DD0F47&0
 Power Management Supported No
 Double Click Threshold 6
 Handedness Right Handed Operation
 IRQ Channel IRQ 12

Driver c:\windows\system32\drivers\i8042prt.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 54.50 KB (55,808 bytes), 3/25/2003 11:00 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 1/24/2006 12:29 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 1/24/2006 12:29 PM
 Index 2
 Service Name Rasl2tp
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled No
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address Not Available

Driver c:\windows\system32\drivers\rasl2tp.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 66.00 KB (67,584 bytes), 3/25/2003 11:00 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 1/24/2006 12:29 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\raspttp.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 61.00 KB (62,464 bytes), 3/25/2003 11:00 AM)

Name [00000004] WAN Miniport (PPPOE)
Adapter Type Wide Area Network (WAN)
Product Type WAN Miniport (PPPOE)
Installed Yes
PNP Device ID ROOT\MS_PPPOEMINIPOINT\0000
Last Reset 1/24/2006 12:29 PM
Index 4
Service Name RasPppoe
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 33:50:6F:45:30:30
Driver c:\windows\system32\drivers\raspppoe.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 40.00 KB (40,960 bytes), 3/25/2003 11:00 AM)

Name [00000005] Direct Parallel
Adapter Type Not Available
Product Type Direct Parallel
Installed Yes
PNP Device ID ROOT\MS_PTIMINIPOINT\0000
Last Reset 1/24/2006 12:29 PM
Index 5
Service Name Raspti
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Driver c:\windows\system32\drivers\raspti.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 19.50 KB (19,968 bytes), 3/25/2003 11:00 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 1/24/2006 12:29 PM

Index 6
Service Name NdisWan
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Driver c:\windows\system32\drivers\ndiswan.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 91.00 KB (93,184 bytes), 3/25/2003 11:00 AM)

Name [00000007] Intel(R) PRO/1000 MT Network Connection
Adapter Type Ethernet 802.3
Product Type Intel(R) PRO/1000 MT Network Connection
Installed Yes
PNP Device ID
PCI\VEN_8086&DEV_1076&SUBSYS_016D1028&REV_05\5&803901B&0&380028
Last Reset 1/24/2006 12:29 PM
Index 7
Service Name E1000
IP Address 192.158.2.9, 192.168.91.1, 192.168.123.2
IP Subnet 255.255.255.0, 255.255.255.0, 255.255.255.0
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:11:43:35:4D:E1
Memory Address 0xDFAE0000-0xDFAFFFFF
I/O Port 0x0000DCC0-0x0000DCFF
IRQ Channel IRQ 64
Driver c:\windows\system32\drivers\e1000325.sys (7.2.19.1 built by:
WinDDK, 123.00 KB (125,952 bytes), 10/20/2004 11:10 AM)

Name [00000008] Intel(R) PRO/1000 MT Network Connection
Adapter Type Ethernet 802.3
Product Type Intel(R) PRO/1000 MT Network Connection
Installed Yes
PNP Device ID
PCI\VEN_8086&DEV_1076&SUBSYS_016D1028&REV_05\5&C8E9BA0&0&400228
Last Reset 1/24/2006 12:29 PM
Index 8
Service Name E1000
IP Address 192.9.1.1, 192.1.10.1
IP Subnet 255.255.255.0, 255.255.255.0
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:11:43:35:4D:E2
Memory Address 0xDF8E0000-0xDF8FFFFF
I/O Port 0x0000CCC0-0x0000CCFF
IRQ Channel IRQ 65

Driver c:\windows\system32\drivers\e1000325.sys (7.2.19.1 built by:
WinDDK, 123.00 KB (125,952 bytes), 10/20/2004 11:10 AM)

[Protocol]

Item Value
Name MSAFD Tcpip [TCP/IP]
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 16 bytes
Maximum Message Size 0 bytes
Message Oriented No
Minimum Address Size 16 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data Yes
Supports Graceful Closing Yes
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD Tcpip [UDP/IP]
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 16 bytes
Maximum Message Size 63.93 KB (65,467 bytes)
Message Oriented Yes
Minimum Address Size 16 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting Yes

Name RSVP UDP Service Provider
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 16 bytes
Maximum Message Size 63.93 KB (65,467 bytes)
Message Oriented Yes
Minimum Address Size 16 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption Yes
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting Yes

Name RSVP TCP Service Provider
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 16 bytes
Maximum Message Size 0 bytes
Message Oriented No
Minimum Address Size 16 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption Yes
Supports Expedited Data Yes
Supports Graceful Closing Yes
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{8D10888B-172C-42DA-9119-F690C6569F08}] 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_{8D10888B-172C-42DA-9119-F690C6569F08}] 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_{35D335E3-7BFB-4A25-803D-7C9A89A68C20}] 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_{35D335E3-7BFB-4A25-803D-7C9A89A68C20}] 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_{2D13871F-65E0-4488-975A-87F4820F3CA7}] 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_{2D13871F-65E0-4488-975A-87F4820F3CA7}] 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_{C66855BE-E13A-4E93-B9E8-4AEAB2144A65}] 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_{C66855BE-E13A-4E93-B9E8-4AEAB2144A65}] DATAGRAM 2
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)
 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

[WinSock]

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

File c:\windows\system32\wsock32.dll
Size 22.00 KB (22,528 bytes)
Version 5.2.3790.0 (srv03_rtm.030324-2048)

[Ports]

[Serial]

Item	Value
Name	Communications Port (COM1)
Status	OK
PNP Device ID	ACPI\PNP0501\1
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
I/O Port	0x000003F8-0x000003FF
IRQ Channel	IRQ 4
Driver	c:\windows\system32\drivers\serial.sys (5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 64.00 KB (65,536 bytes), 3/25/2003 11:00 AM)

[Parallel]

Item Value

[Storage]

[Drives]

Item	Value
Drive C:	
Description	Local Fixed Disk
Compressed	No
File System	NTFS
Size	33.91 GB (36,413,280,256 bytes)
Free Space	13.30 GB (14,283,595,776 bytes)
Volume Name	
Volume Serial Number	949181F8

Drive D:	
Description	CD-ROM Disc

[Disks]

Item	Value
Description	Disk drive
Manufacturer	(Standard disk drives)
Model	SEAGATE ST336753LC 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	0
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	LSI Logic PCI-X Ultra320 SCSI Host Adapter
Manufacturer	LSI Logic Inc.
Status	OK
PNP Device ID	PCI\VEN_1000&DEV_0030&SUBSYS_016D1028&REV_08\5&39562480&0&280010
I/O Port	0x0000EC00-0x0000ECFF
Memory Address	0xDFDF0000-0xDFDFFFFF
Memory Address	0xDFDE0000-0xDFDEFFFF
IRQ Channel	IRQ 34

Driver c:\windows\system32\drivers\symmpi.sys (1.10.05.00 (NT.041118-1101), 48.50 KB (49,664 bytes), 3/25/2003 11:00 AM)

Name LSI Logic PCI-X Ultra320 SCSI Host Adapter
Manufacturer LSI Logic Inc.
Status OK
PNP Device ID
PCI\VEN_1000&DEV_0030&SUBSYS_016D1028&REV_08\5&39562480&0&290010

I/O Port 0x0000E800-0x0000E8FF
Memory Address 0xDFDD0000-0xDFDDFFFF
Memory Address 0xDFDC0000-0xDFDCFFFF
IRQ Channel IRQ 33
Driver c:\windows\system32\drivers\symmpi.sys (1.10.05.00 (NT.041118-1101), 48.50 KB (49,664 bytes), 3/25/2003 11:00 AM)

[IDE]

Item Value
Name Intel(R) 82801EB Ultra ATA Storage Controllers - 24DB
Manufacturer Intel
Status OK
PNP Device ID
PCI\VEN_8086&DEV_24DB&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&F9

I/O Port 0x0000FC00-0x0000FC0F
Memory Address 0xFEBFFC00-0xFEBFFFFF
Driver c:\windows\system32\drivers\intelide.sys (5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 7.50 KB (7,680 bytes), 10/19/2004 12:30 PM)

Name Primary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device ID PCI\VEN_8086&DEV_24DB&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&F9
I/O Port 0x000001F0-0x000001F7
I/O Port 0x000003F6-0x000003F6
IRQ Channel IRQ 14
Driver c:\windows\system32\drivers\atapi.sys (5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 93.50 KB (95,744 bytes), 3/25/2003 11:00 AM)

Name Secondary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device ID PCI\VEN_8086&DEV_24DB&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&F9
I/O Port 0x00000170-0x00000177
I/O Port 0x00000376-0x00000376
IRQ Channel IRQ 15
Driver c:\windows\system32\drivers\atapi.sys (5.2.3790.1830 (srv03_sp1_rtm.050324-1447), 93.50 KB (95,744 bytes), 3/25/2003 11:00 AM)

[Printing]

Name Driver Port Name Server Name

[Problem Devices]

Device PNP Device ID Error Code

[USB]

Device PNP Device ID
Standard Universal PCI to USB Host Controller
PCI\VEN_8086&DEV_24D2&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&E8

Standard Universal PCI to USB Host Controller
PCI\VEN_8086&DEV_24D4&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&E9

Standard Universal PCI to USB Host Controller
PCI\VEN_8086&DEV_24D7&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&EA

Standard Enhanced PCI to USB Host Controller
PCI\VEN_8086&DEV_24DD&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&EF

[Software Environment]

[System Drivers]

Name	Description	File	Type	Started	Start Mode	State	Status
abiosdsk	Error Control	Accept Pause	Accept Stop	Not Available	Kernel Driver	No	No
acpi	Microsoft ACPI Driver	c:\windows\system32\drivers\acpi.sys	Kernel Driver	Running	OK	Normal	Yes
acpiec	ACPIEC	c:\windows\system32\drivers\acpiec.sys	Kernel Driver	Stopped	OK	Normal	No
adpu160m	adpu160m	Not Available	Kernel Driver	Stopped	OK	Normal	No
adpu320	adpu320	Not Available	Kernel Driver	Stopped	OK	Normal	No
afcnt	afcnt	Not Available	Kernel Driver	Stopped	OK	Normal	No
afd	AFD Networking Support Environment	c:\windows\system32\drivers\afd.sys	Kernel Driver	Running	OK	Normal	Yes
aha154x	Aha154x	Not Available	Kernel Driver	Stopped	OK	Normal	No
aic78u2	aic78u2	Not Available	Kernel Driver	Stopped	OK	Normal	No
aic78xx	aic78xx	Not Available	Kernel Driver	Stopped	OK	Normal	No
aliide	AliIde	Not Available	Kernel Driver	Stopped	OK	Normal	No
asynctac	RAS Asynchronous Media Driver	c:\windows\system32\drivers\asynctac.sys	Kernel Driver	Manual	Stopped	OK	Normal
atapi	Standard IDE/ESDI Hard Disk Controller	c:\windows\system32\drivers\atapi.sys	Kernel Driver	Running	OK	Normal	Yes
atdisk	Atdisk	Not Available	Kernel Driver	Stopped	OK	Ignore	No

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ati2mtag      ati2mtag      c:\windows\system32\drivers\ati2mtag.sys
Kernel Driver Yes Manual Running OK Ignore No Yes

atmarpc ATM ARP Client Protocol
c:\windows\system32\drivers\atmarpc.sys Kernel Driver No
Manual Stopped OK Normal No No
audstub Audio Stub Driver c:\windows\system32\drivers\audstub.sys
Kernel Driver Yes Manual Running OK Normal No Yes

beep Beep c:\windows\system32\drivers\beep.sys Kernel Driver Yes
System Running OK Normal No Yes
cbidf2k cbidf2k c:\windows\system32\drivers\cbidf2k.sys Kernel Driver
No Disabled Stopped OK Normal No No
cd20xrnt cd20xrnt Not Available Kernel Driver No
Disabled Stopped OK Normal No No
cdfs Cdfs c:\windows\system32\drivers\cdfs.sys File System Driver
Yes Disabled Running OK Normal No Yes
cdrom CD-ROM Driver c:\windows\system32\drivers\cdrom.sys Kernel Driver
Yes System Running OK Normal No Yes
changer Changer Not Available Kernel Driver No System Stopped OK
Ignore No No
clusdisk Cluster Disk Driver
c:\windows\system32\drivers\clusdisk.sys Kernel Driver No
Disabled Stopped OK Normal No No
cmdide CmdIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No
cpqarray Cpqarray Not Available Kernel Driver No
Disabled Stopped OK Normal No No
cpqarray2 Cpqarray2 Not Available Kernel Driver No
Disabled Stopped OK Normal No No
cpqcissm Cpqcissm Not Available Kernel Driver No
Disabled Stopped OK Normal No No
cpqfcalm Cpqfcalm Not Available Kernel Driver No
Disabled Stopped OK Normal No No
crcdisk CRC Disk Filter Driver c:\windows\system32\drivers\crcdisk.sys
Kernel Driver Yes Boot Running OK Normal No Yes

dac960nt dac960nt Not Available Kernel Driver No
Disabled Stopped OK Normal No No
dellcerc dellcerc Not Available Kernel Driver No
Disabled Stopped OK Normal No No
dfsdriver DfsDriver c:\windows\system32\drivers\dfs.sys File
System Driver Yes Boot Running OK Normal No Yes
disk Disk Driver c:\windows\system32\drivers\disk.sys Kernel Driver
Yes Boot Running OK Normal No Yes
dmboot dmboot c:\windows\system32\drivers\dmboot.sys Kernel Driver
No Disabled Stopped OK Normal No No
dmio Logical Disk Manager Driver c:\windows\system32\drivers\dmio.sys
Kernel Driver Yes Boot Running OK Normal No Yes

dmload dmload c:\windows\system32\drivers\dmload.sys Kernel Driver
Yes Boot Running OK Normal No Yes
dpti2o dpti2o Not Available Kernel Driver No Disabled
Stopped OK Normal No No
e1000 Intel(R) PRO/1000 Adapter Driver
c:\windows\system32\drivers\e1000325.sys Kernel Driver Yes
Manual Running OK Normal No Yes
fastfat Fastfat c:\windows\system32\drivers\fastfat.sys File System
Driver No Disabled Stopped OK Normal No No

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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 Flpydisk c:\windows\system32\drivers\flpydisk.sys
Kernel Driver No System Stopped OK Ignore No No

fltMgr FltMgr c:\windows\system32\drivers\fltMgr.sys File System
Driver Yes Boot Running OK Normal No Yes
ftdisk Volume Manager Driver c:\windows\system32\drivers\ftdisk.sys
Kernel Driver Yes Boot Running OK Normal No Yes

gpc Generic Packet Classifier
c:\windows\system32\drivers\msgpc.sys Kernel Driver Yes Manual
Running OK Normal No Yes
hpn hpn Not Available Kernel Driver No Disabled
Stopped OK Normal No No
hpt3xx hpt3xx Not Available Kernel Driver No Disabled
Stopped OK Normal No No
http HTTP c:\windows\system32\drivers\http.sys Kernel Driver No
Manual Stopped OK Normal No No
i2omgmt i2omgmt Not Available Kernel Driver No System Stopped OK
Normal No No
i2omp i2omp Not Available Kernel Driver No Disabled
Stopped OK Normal No No
i8042prt i8042 Keyboard and PS/2 Mouse Port Driver
c:\windows\system32\drivers\i8042prt.sys Kernel Driver Yes
System Running OK Normal No Yes
iirsp iirsp Not Available Kernel Driver No Disabled
Stopped OK Normal No No
imapi CD-Burning Filter Driver
c:\windows\system32\drivers\imapi.sys Kernel Driver No System
Stopped OK Normal No No
intelide IntelIde c:\windows\system32\drivers\intelide.sys
Kernel Driver Yes Boot Running OK Normal No Yes

intelppm Intel Processor Driver
c:\windows\system32\drivers\intelppm.sys Kernel Driver Yes
Manual Running OK Normal No Yes
ip6fw IPv6 Windows Firewall Driver
c:\windows\system32\drivers\ip6fw.sys Kernel Driver No Manual
Stopped OK Normal No No
ipfilterdriver IP Traffic Filter Driver
c:\windows\system32\drivers\ipfltdrv.sys Kernel Driver No
Manual Stopped OK Normal No No
ipinip IP in IP Tunnel Driver c:\windows\system32\drivers\ipinip.sys
Kernel Driver No Manual Stopped OK Normal No No

ipnat IP Network Address Translator
c:\windows\system32\drivers\ipnat.sys Kernel Driver No Manual
Stopped OK Normal No No
ipsec IPSEC driver c:\windows\system32\drivers\ipsec.sys Kernel Driver
Yes System Running OK Normal No Yes
ipsraidn ipsraidn Not Available Kernel Driver No
Disabled Stopped OK Normal No No
irenum IR Enumerator Service c:\windows\system32\drivers\irenum.sys
Kernel Driver No Manual Stopped OK Normal No No

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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 c:\windows\system32\drivers\lp6nds35.sys
Kernel Driver Yes Boot Running OK Normal No Yes

lpkxdrvrv lpkxdrvrv c:\windows\system32\drivers\lpkxdrvrv.sys
Kernel Driver Yes Manual Running OK Normal No Yes

mmddd mmddd c:\windows\system32\drivers\mmddd.sys Kernel Driver Yes
System Running OK Ignore No Yes

modem Modem c:\windows\system32\drivers\modem.sys Kernel Driver No
Manual Stopped OK Ignore No No

mouclass Mouse Class Driver
c:\windows\system32\drivers\mouclass.sys Kernel Driver Yes
System Running OK Normal No Yes

mountmgr Mount Point Manager
c:\windows\system32\drivers\mountmgr.sys Kernel Driver Yes
Boot Running OK Normal No Yes

mraid35x mraid35x Not Available Kernel Driver No
Disabled Stopped OK Normal No No

mrxdav WebDav Client Redirector
c:\windows\system32\drivers\mrxdav.sys File System Driver
No Manual Stopped OK Normal No No

mrxsmb MRXSMB c:\windows\system32\drivers\mrxsmb.sys File System
Driver Yes System Running OK Normal No Yes

msfs Msfs c:\windows\system32\drivers\msfs.sys File System Driver
Yes System Running OK Normal No Yes

mssmbios Microsoft System Management BIOS Driver
c:\windows\system32\drivers\mssmbios.sys Kernel Driver Yes
Manual Running OK Normal No Yes

mup Mup c:\windows\system32\drivers\mup.sys File System Driver
Yes Boot Running OK Normal No Yes

ndis NDIS System Driver c:\windows\system32\drivers\ndis.sys Kernel
Driver Yes Boot Running OK Normal No Yes

ndistapi Remote Access NDIS TAPI Driver
c:\windows\system32\drivers\ndistapi.sys Kernel Driver Yes
Manual Running OK Normal No Yes

ndisuio NDIS Usermode I/O Protocol
c:\windows\system32\drivers\ndisuio.sys Kernel Driver No
Manual Stopped OK Normal No No

ndiswan Remote Access NDIS WAN Driver
c:\windows\system32\drivers\ndiswan.sys Kernel Driver Yes
Manual Running OK Normal No Yes

ndproxy NDIS Proxy c:\windows\system32\drivers\ndproxy.sys Kernel
Driver Yes Manual Running OK Normal No Yes

netbios NetBIOS Interface c:\windows\system32\drivers\netbios.sys
File System Driver Yes System Running OK Normal No
Yes

netbt NetBios over Tcpip c:\windows\system32\drivers\netbt.sys Kernel
Driver Yes System Running OK Normal No Yes

nfrd960 nfrd960 Not Available Kernel Driver No Disabled
Stopped OK Normal No No

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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 PDFRAME Not Available Kernel Driver No Manual Stopped OK
Ignore No No

pdreli PDRELI Not Available Kernel Driver No Manual Stopped OK
Ignore No No

pdrframe PDRFRAME Not Available Kernel Driver No Manual
Stopped OK Ignore No No

perc2 perc2 Not Available Kernel Driver No Disabled
Stopped OK Normal No No

perc2hib perc2hib Not Available Kernel Driver No
Disabled Stopped OK Normal No No

pptpminiport WAN Miniport (PTP)
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 No
Manual Stopped OK Normal No No

ptilink Direct Parallel Link Driver
c:\windows\system32\drivers\ptilink.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
No Disabled Stopped OK Normal No No

rasacd Remote Access Auto Connection Driver
c:\windows\system32\drivers\rasacd.sys Kernel Driver Yes
System Running OK Normal No Yes

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rasl2tp WAN Miniport (L2TP) c:\windows\system32\drivers\rasl2tp.sys
Kernel Driver Yes Manual Running OK Normal No Yes

rasppoe Remote Access PPPOE Driver
c:\windows\system32\drivers\rasppoe.sys Kernel Driver Yes
Manual Running OK Normal No Yes
raspti Direct Parallel c:\windows\system32\drivers\raspti.sys
Kernel Driver Yes Manual Running OK Normal No Yes

rdbss Rdbss c:\windows\system32\drivers\rdbss.sys File System Driver
Yes System Running OK Normal No Yes
rdpcdd RDPCCD 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 c:\windows\system32\drivers\symmpi.sys Kernel Driver
Yes Boot Running OK Normal No Yes
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
tbdriver TbDriver c:\windows\system32\drivers\tbdriver.sys
Kernel Driver Yes Boot Running OK Normal No Yes

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

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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 Yes
Manual Running OK Normal No Yes
usbhub USB2 Enabled Hub c:\windows\system32\drivers\usbhub.sys
Kernel Driver Yes Manual Running OK Normal No Yes

usbstor USB Mass Storage Driver
c:\windows\system32\drivers\usbstor.sys Kernel Driver No
Manual Stopped OK Normal No No
usbuhci Microsoft USB Universal Host Controller Miniport Driver
c:\windows\system32\drivers\usbuhci.sys Kernel Driver Yes
Manual Running OK Normal No Yes
vgasave VGA Display Controller. c:\windows\system32\drivers\vga.sys
Kernel Driver Yes System Running OK Ignore No Yes

viaide ViaIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No
volsnap Storage volumes c:\windows\system32\drivers\volsnap.sys
Kernel Driver Yes Boot Running OK Normal No Yes

wanarp Remote Access IP ARP Driver
c:\windows\system32\drivers\wanarp.sys Kernel Driver Yes
Manual Running OK Normal No Yes
wdica WDICA Not Available Kernel Driver No Manual Stopped OK
Ignore No No
wlbs Network Load Balancing c:\windows\system32\drivers\wlbs.sys Kernel
Driver No Manual Stopped OK Normal No No

```

[Signed Drivers]

Device Name	Signed	Device Class	Driver Version	Driver Date
Manufacturer	INF Name	Driver Name	Device ID	Device ID
Microsoft System Management BIOS Driver	No	Microsoft System Management BIOS Driver	SYSTEM 5.2.3790.1830	10/1/2002
Available	ROOT\SYSTEM\0002	(Standard system devices)	machine.inf	Not Available
Microcode Update Device	No	Microcode Update Device	SYSTEM 5.2.3790.0	10/1/2002
Available	ROOT\SYSTEM\0001	(Standard system devices)	machine.inf	Not Available
Plug and Play Software Device Enumerator	No	Plug and Play Software Device Enumerator	SYSTEM 5.2.3790.0	10/1/2002
Available	ROOT\SYSTEM\0000	(Standard system devices)	machine.inf	Not Available
Terminal Server Mouse Driver	No	Terminal Server Mouse Driver	SYSTEM 5.2.3790.0	10/1/2002
Available	ROOT\RDP_MOU\0000	(Standard system devices)	machine.inf	Not Available
Terminal Server Keyboard Driver	No	Terminal Server Keyboard Driver	SYSTEM 5.2.3790.0	10/1/2002
Available	ROOT\RDP_KBD\0000	(Standard system devices)	machine.inf	Not Available

Terminal Server Device Redirector	No	SYSTEM	5.2.3790.0		
10/1/2002 (Standard system devices)			machine.inf	Not	
Available			ROOT\RDPDR\0000		
Direct Parallel	No	NET	5.2.3790.0	10/1/2002	
Microsoft netrasa.inf			Not Available		
ROOT\MS_PTMINIPORT\0000					
WAN Miniport (PPPOE)	No	NET	5.2.3790.0	10/1/2002	
Microsoft netrasa.inf			Not Available		
ROOT\MS_PPTMINIPORT\0000					
WAN Miniport (PPPOE)	No	NET	5.2.3790.0	10/1/2002	
Microsoft netrasa.inf			Not Available		
ROOT\MS_PPPOEMINIPORT\0000					
WAN Miniport (IP)	No	NET	5.2.3790.0	10/1/2002	
Microsoft netrasa.inf			Not Available		
ROOT\MS_NDISWANIP\0000					
WAN Miniport (L2TP)	No	NET	5.2.3790.0	10/1/2002	
Microsoft netrasa.inf			Not Available		
ROOT\MS_L2TPMINIPORT\0000					
Video Codecs (Standard system devices)	No	MEDIA	5.2.3790.0	10/1/2002	(Standard system devices)
wave.inf			Not Available		ROOT\MEDIA\MS_MMVID
Legacy Video Capture Devices (Standard system devices)	No	MEDIA	5.2.3790.0	10/1/2002	
ROOT\MEDIA\MS_MMVCD			wave.inf		Not Available
Media Control Devices (Standard system devices)	No	MEDIA	5.2.3790.0	10/1/2002	
ROOT\MEDIA\MS_MMMCI			wave.inf		Not Available
Legacy Audio Drivers (Standard system devices)	No	MEDIA	5.2.3790.0	10/1/2002	
ROOT\MEDIA\MS_MMDRV			wave.inf		Not Available
Audio Codecs (Standard system devices)	No	MEDIA	5.2.3790.0	10/1/2002	(Standard system devices)
wave.inf			Not Available		ROOT\MEDIA\MS_MMACM
Remote Access IP ARP Driver	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_WANARP\0000					
volsnap	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_VOLSNAP\0000					
VGA Display Controller.	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_VGASAVE\0000					
TDTCP	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_TDTCP\0000					
TCP/IP Protocol Driver	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_TCPIP\0000					
TbDriver	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_TBDRIVER\0000					
RDPWD	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_RDPWD\0000					
RDPCCD	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_RDPCCD\0000					
Remote Access Auto Connection Driver	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_RASACD\0000					

PCIIde	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_PCIIDE\0000					
Partition Manager	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_PARTMGR\0000					
Null	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_NULL\0000					
NetBios over Tcpip	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_NETBT\0000					
NDProxy	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_NDPROXY\0000					
NDIS Usermode I/O Protocol	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_NDISUIO\0000					
Remote Access NDIS TAPI Driver	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_NDISTAPI\0000					
NDIS System Driver	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_NDIS\0000					
mountmgr	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_MOUNTMGR\0000					
mnmdd	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_MNMD\0000					
lp6nds35	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_LP6NDS35\0000					
ksecdd	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_KSECDD\0000					
IPSEC driver	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_IPSEC\0000					
HTTP	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_HTTP\0000					
Generic Packet Classifier	Not Available	LEGACYDRIVER			Not Available
Not Available			Not Available		Not Available
ROOT\LEGACY_GPC\0000					
Fips	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_FIPS\0000					
dmload	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_DMLOAD\0000					
dmboot	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_DMBOOT\0000					
CRC Disk Filter Driver	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_CRCDISK\0000					
Beep	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_BEEP\0000					
AFD Networking Support Environment	Not Available	LEGACYDRIVER			Not Available
Available			Not Available		Not Available
ROOT\LEGACY_AFD\0000					

Generic volume No VOLUME 5.2.3790.0 10/1/2002 Microsoft
 volume.inf Not Available
 STORAGE\VOLUME\1&30A96598&0&SIGNATURE137C137BOFFSET7E00LENGTH87A66
 9800
 Volume Manager No SYSTEM 5.2.3790.0 10/1/2002 (Standard
 system devices) machine.inf Not Available ROOT\FDTDISK\0000
 Logical Disk Manager No SYSTEM 5.2.3790.0 10/1/2002
 (Standard system devices) machine.inf Not Available
 ROOT\DMIO\0000
 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
 High precision event timer No SYSTEM 5.2.3790.1830 10/1/2002
 (Standard system devices) machine.inf Not Available
 ACPI\PNP0103\0
 Motherboard resources No SYSTEM 5.2.3790.0 10/1/2002
 (Standard system devices) machine.inf Not Available
 ACPI\PNP0C02\0
 Secondary IDE Channel No HDC 5.2.3790.0 10/1/2002
 (Standard IDE ATA/ATAPI controllers) mshdc.inf Not Available
 PCIIDE\IDECHANNEL\4&1E0969C8&0&1
 CD-ROM Drive No CDROM 5.2.3790.0 10/1/2002 (Standard CD-
 ROM drives) cdrom.inf Not Available IDE\CDROMTEAC_CD-
 224E K.9A\5&122E1C04&0&0.0.0
 Primary IDE Channel No HDC 5.2.3790.0 10/1/2002
 (Standard IDE ATA/ATAPI controllers) mshdc.inf Not Available
 PCIIDE\IDECHANNEL\4&1E0969C8&0&0
 Intel(R) 82801EB Ultra ATA Storage Controllers - 24DB No HDC
 5.2.3790.1830 10/1/2002 Intel mshdc.inf Not Available
 PCI\VEN_8086&DEV_24DB&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&F9
 System board No SYSTEM 5.2.3790.0 10/1/2002 (Standard
 system devices) machine.inf Not Available
 ACPI\PNP0C01\4&26DD0F47&0
 Communications Port No PORTS 5.2.3790.0 10/1/2002
 (Standard port types) msports.inf Not Available ACPI\PNP0501\1
 PS/2 Compatible Mouse No MOUSE 5.2.3790.0 10/1/2002
 Microsoft msmouse.inf Not Available
 ACPI\PNP0F13\4&26DD0F47&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&26DD0F47&0
 Standard floppy disk controller No FDC 5.2.3790.0
 10/1/2002 (Standard floppy disk controllers) fdc.inf Not
 Available ACPI\PNP0700\4&26DD0F47&0
 System timer No SYSTEM 5.2.3790.0 10/1/2002 (Standard
 system devices) machine.inf Not Available
 ACPI\PNP0100\4&26DD0F47&0
 System CMOS/real time clock No SYSTEM 5.2.3790.0 10/1/2002
 (Standard system devices) machine.inf Not Available
 ACPI\PNP0B00\4&26DD0F47&0
 System speaker No SYSTEM 5.2.3790.0 10/1/2002 (Standard
 system devices) machine.inf Not Available
 ACPI\PNP0800\4&26DD0F47&0
 Programmable interrupt controller No SYSTEM 5.2.3790.0
 10/1/2002 (Standard system devices) machine.inf Not
 Available ACPI\PNP0000\4&26DD0F47&0

Numeric data processor No SYSTEM 5.2.3790.0 10/1/2002
 (Standard system devices) machine.inf Not Available
 ACPI\PNP0C04\4&26DD0F47&0
 Direct memory access controller No SYSTEM 5.2.3790.0
 10/1/2002 (Standard system devices) machine.inf Not
 Available ACPI\PNP0200\4&26DD0F47&0
 ISAPNP Read Data Port No SYSTEM 5.2.3790.0 10/1/2002
 (Standard system devices) machine.inf Not Available
 ISAPNP\READDATA\PORT\0
 Intel(R) 82801EB LPC Interface Controller - 24D0 No SYSTEM
 5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
 PCI\VEN_8086&DEV_24D0&SUBSYS_00000000&REV_02\3&13C0B0C5&0&F8
 Plug and Play Monitor No MONITOR 5.1.2001.0 6/6/2001
 (Standard monitor types) monitor.inf Not Available
 DISPLAY\DEL3580\5&1427D6AE&0&10000080&0B&0D
 RADEON 7000 RADEON VE Family (Microsoft Corporation) No DISPLAY
 6.13.10.6153 8/8/2002 ATI Technologies Inc. atiixpag.inf
 Not Available
 PCI\VEN_1002&DEV_5159&SUBSYS_016D1028&REV_00\4&1F7DBC9F&0&68F0
 Intel(R) 82801 PCI Bridge - 244E No SYSTEM 5.2.3790.1830
 10/1/2002 Intel machine.inf Not Available
 PCI\VEN_8086&DEV_244E&SUBSYS_00000000&REV_C2\3&13C0B0C5&0&F0
 Generic USB Hub No USB 5.2.3790.0 10/1/2002
 (Generic USB Hub) usb.inf Not Available
 USB\VID_413C&PID_A001\5&384A50E3&0&3
 USB Root Hub No USB 5.2.3790.0 10/1/2002 (Standard USB
 Host Controller) usbport.inf Not Available
 USB\ROOT_HUB20\4&2F4BE1E7&0
 Standard Enhanced PCI to USB Host Controller No USB
 10/1/2002 (Standard USB Host Controller) usbport.inf
 Not Available
 PCI\VEN_8086&DEV_24DD&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&EF
 USB Root Hub No USB 5.2.3790.0 10/1/2002 (Standard USB
 Host Controller) usbport.inf Not Available
 USB\ROOT_HUB\4&4C5D87F&0
 Standard Universal PCI to USB Host Controller No USB
 5.2.3790.0 10/1/2002 (Standard USB Host Controller)
 usbport.inf Not Available
 PCI\VEN_8086&DEV_24D7&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&EA
 USB Root Hub No USB 5.2.3790.0 10/1/2002 (Standard USB
 Host Controller) usbport.inf Not Available
 USB\ROOT_HUB\4&198257A8&0
 Standard Universal PCI to USB Host Controller No USB
 5.2.3790.0 10/1/2002 (Standard USB Host Controller)
 usbport.inf Not Available
 PCI\VEN_8086&DEV_24D4&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&E9
 USB Root Hub No USB 5.2.3790.0 10/1/2002 (Standard USB
 Host Controller) usbport.inf Not Available
 USB\ROOT_HUB\4&31AFD2BF&0
 Standard Universal PCI to USB Host Controller No USB
 5.2.3790.0 10/1/2002 (Standard USB Host Controller)
 usbport.inf Not Available

```

PCI\VEN_8086&DEV_24D2&SUBSYS_016D1028&REV_02\3&13C0B0C5&0&E8
Emulex LP 10000 - Unisys VI No UNISYS_VI Not Available Not
Available Emulex oem2.inf Not Available
PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\5&1B4F3478&0&190230
Emulex LP 10000 - Unisys VI No UNISYS_VI Not Available Not
Available Emulex oem1.inf Not Available
PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\5&1B4F3478&0&180230
Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A No SYSTEM
5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_032A&SUBSYS_00000000&REV_09\4&AA5CD76&0&0230
Intel(R) 6700PXH PCI Express-to-PCI Bridge A - 0329 No SYSTEM
5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_0329&SUBSYS_00000000&REV_09\4&AA5CD76&0&0030
Intel(R) E7520 PCI Express Root Port C0 - 3599 No SYSTEM
5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_3599&SUBSYS_00000000&REV_09\3&13C0B0C5&0&30
Intel(R) PRO/1000 MT Network Connection No NET 7.2.19.1
3/15/2004 Intel oem0.inf Not Available
PCI\VEN_8086&DEV_1076&SUBSYS_016D1028&REV_05\5&C8E9BA0&0&400228
Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A No SYSTEM
5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_032A&SUBSYS_00000000&REV_09\4&13C5C3DD&0&0228
Intel(R) PRO/1000 MT Network Connection No NET 7.2.19.1
3/15/2004 Intel oem0.inf Not Available
PCI\VEN_8086&DEV_1076&SUBSYS_016D1028&REV_05\5&803901B&0&380028
Intel(R) 6700PXH PCI Express-to-PCI Bridge A - 0329 No SYSTEM
5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_0329&SUBSYS_00000000&REV_09\4&13C5C3DD&0&0028
Intel(R) E7520 PCI Express Root Port B1 - 3598 No SYSTEM
5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_3598&SUBSYS_00000000&REV_09\3&13C0B0C5&0&28
Intel(R) E7525/E7520 PCI Express Root Port B0 - 3597 No SYSTEM
5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_3597&SUBSYS_00000000&REV_09\3&13C0B0C5&0&20
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available
PCI\VEN_8086&DEV_0332&SUBSYS_00000000&REV_06\4&3007CA40&0&0210
LSI Logic PCI-X Ultra320 SCSI Host Adapter No SCSIADAPTER
5.2.3790.0 10/1/2002 LSI Logic Inc. pnpscsi.inf Not
Available
PCI\VEN_1000&DEV_0030&SUBSYS_016D1028&REV_08\5&39562480&0&290010
PE 1x6 Backplane No SYSTEM 5.2.3790.0 10/1/2002 Dell
scsidev.inf Not Available

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SCSI\PROCESSOR&VEN_PE/PV&PROD_1X6_SCSI_BP&REV_1.0\6&35B122AC&0&060
Disk drive No DISKDRIVE 5.2.3790.0 10/1/2002
(Standard disk drives) disk.inf Not Available
SCSI\DISK&VEN_SEAGATE&PROD_ST336753LC&REV_DX10\6&35B122AC&0&000
LSI Logic PCI-X Ultra320 SCSI Host Adapter No SCSIADAPTER
5.2.3790.0 10/1/2002 LSI Logic Inc. pnpscsi.inf Not
Available
PCI\VEN_1000&DEV_0030&SUBSYS_016D1028&REV_08\5&39562480&0&280010
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available
PCI\VEN_8086&DEV_0330&SUBSYS_00000000&REV_06\4&3007CA40&0&0010
Intel(R) E7525/E7520/E7320 PCI Express Root Port A0 - 3595 No SYSTEM
5.2.3790.1830 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_3595&SUBSYS_00000000&REV_09\3&13C0B0C5&0&10
Intel(R) E7520 Memory Controller Hub - 3590 No SYSTEM 5.2.3790.1830
10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_3590&SUBSYS_00000000&REV_09\3&13C0B0C5&0&00
PCI bus No SYSTEM 5.2.3790.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\1
Intel Processor No PROCESSOR 5.2.3790.1830 10/1/2002
Intel cpu.inf Not Available ACPI\GENUINEINTEL_-
_X86_FAMILY_15_MODEL_4\3
Intel Processor No PROCESSOR 5.2.3790.1830 10/1/2002
Intel cpu.inf Not Available ACPI\GENUINEINTEL_-
_X86_FAMILY_15_MODEL_4\2
Intel Processor No PROCESSOR 5.2.3790.1830 10/1/2002
Intel cpu.inf Not Available ACPI\GENUINEINTEL_-
_X86_FAMILY_15_MODEL_4\1
Intel Processor No PROCESSOR 5.2.3790.1830 10/1/2002
Intel cpu.inf Not Available ACPI\GENUINEINTEL_-
_X86_FAMILY_15_MODEL_4\0
Microsoft ACPI-Compliant System No SYSTEM 5.2.3790.0
10/1/2002 Microsoft acpi.inf Not Available
ACPI_HAL\PNP0C08\0
ACPI Multiprocessor PC No COMPUTER 5.2.3790.0 10/1/2002
(Standard computers) hal.inf Not Available ROOT\ACPI_HAL\0000
Not Available Not Available Not Available Not Available Not Available
Not Available Not Available Not Available Not Available HTREE\ROOT\0
[Environment Variables]
Variable Value User Name
ClusterLog C:\WINDOWS\Cluster\cluster.log <SYSTEM>
ComSpec %SystemRoot%\system32\cmd.exe <SYSTEM>
NUMBER_OF_PROCESSORS 4 <SYSTEM>
OS Windows_NT <SYSTEM>
Path
C:\Oracle\ora10g\bin;C:\Oracle\ora10g\jre\1.4.2\bin\client;C:\Orac
le\ora10g\jre\1.4.2\bin;%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\Sy
stem32\Wbem;C:\Program Files\Microsoft SQL
Server\90\Tools\bin\;C:\Program Files\Microsoft SQL

```

```
Server\90\DTS\Binn\;C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\ <SYSTEM>
PATHEXT .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH <SYSTEM>
```

```
PROCESSOR_ARCHITECTURE x86 <SYSTEM>
PROCESSOR_IDENTIFIER x86 Family 15 Model 4 Stepping 3, GenuineIntel
<SYSTEM>
PROCESSOR_LEVEL 15 <SYSTEM>
PROCESSOR_REVISION 0403 <SYSTEM>
TEMP %SystemRoot%\TEMP <SYSTEM>
TMP %SystemRoot%\TEMP <SYSTEM>
windir %SystemRoot% <SYSTEM>
FP_NO_HOST_CHECK NO <SYSTEM>
TEMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\SYSTEM
TMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\SYSTEM
TEMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\LOCAL SERVICE

TMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\LOCAL SERVICE

TEMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\NETWORK SERVICE

TMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\NETWORK SERVICE
```

```
LOCAL
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=192.158.1.199)(PORT=7525
))(CONNECT_DATA=(SID=TPCC))) CLIENT1\Administrator
ORACLE_HOME C:\Oracle\ora10g CLIENT1\Administrator
ORACLE_SID TPCC CLIENT1\Administrator
TEMP %USERPROFILE%\Local Settings\Temp CLIENT1\Administrator
TMP %USERPROFILE%\Local Settings\Temp CLIENT1\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
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[Running Tasks]

Name	Path	Process ID	Priority	Min Working Set	Max
Working Set	Start Time	Version	Size	File Date	
system idle process	Not Available	Not Available	0	0	Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available
system	Not Available	4	8	0	1413120
Available	Not Available	Not Available	Not Available	Not Available	Not Available
smss.exe	Not Available	556	11	204800	1413120
12:29 PM	Not Available	Not Available	Not Available	Not Available	Not Available
csrss.exe	Not Available	652	13	Not Available	Not Available
1/24/2006	12:29 PM	Not Available	Not Available	Not Available	Not Available
winlogon.exe	c:\windows\system32\winlogon.exe	724	13	204800	1413120
1413120	1/24/2006 12:29 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	497.00 KB (508,928 bytes)	7/22/2005 1:04 PM

services.exe	c:\windows\system32\services.exe	800	9	204800	1413120
1413120	1/24/2006 12:29 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	107.50 KB (110,080 bytes)	3/25/2003 11:00 AM
lsass.exe	c:\windows\system32\lsass.exe	812	9	204800	1413120
1413120	1/24/2006 12:29 PM	5.2.3790.0	(srv03_rtm.030324-2048)	13.00 KB (13,312 bytes)	3/25/2003 11:00 AM
svchost.exe	c:\windows\system32\svchost.exe	1024	8	204800	1413120
1413120	1/24/2006 12:29 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	14.00 KB (14,336 bytes)	7/22/2005 1:04 PM
svchost.exe	Not Available	1128	8	Not Available	Not Available
1/24/2006	12:29 PM	Not Available	Not Available	Not Available	Not Available
svchost.exe	c:\windows\system32\svchost.exe	1180	8	204800	1413120
1413120	1/24/2006 12:29 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	14.00 KB (14,336 bytes)	7/22/2005 1:04 PM
msdtc.exe	Not Available	1452	8	Not Available	Not Available
1/24/2006	12:30 PM	Not Available	Not Available	Not Available	Not Available
mnmsrvc.exe	c:\windows\system32\mnmsrvc.exe	1656	8	204800	1413120
1413120	1/24/2006 12:30 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	32.00 KB (32,768 bytes)	7/22/2005 1:04 PM
svchost.exe	Not Available	1716	8	Not Available	Not Available
1/24/2006	12:30 PM	Not Available	Not Available	Not Available	Not Available
rundll32.exe	c:\windows\system32\rundll32.exe	1724	8	204800	1413120
1413120	1/24/2006 12:30 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	34.00 KB (34,816 bytes)	7/22/2005 1:04 PM
explorer.exe	c:\windows\explorer.exe	368	8	204800	1413120
1413120	1/24/2006 12:30 PM	6.00.3790.1830	(srv03_sp1_rtm.050324-1447)	1.00 MB (1,050,624 bytes)	7/22/2005 1:04 PM
svchost.exe	c:\windows\system32\svchost.exe	396	8	204800	1413120
1413120	1/24/2006 12:30 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	14.00 KB (14,336 bytes)	7/22/2005 1:04 PM
rhostsvr.exe	c:\rhost\rhostsvr.exe	1360	8	204800	1413120
1/24/2006	12:30 PM	Not Available	Not Available	54.50 KB (55,808 bytes)	10/20/2004 12:35 PM
svchost.exe	c:\windows\system32\svchost.exe	1520	8	204800	1413120
1413120	1/24/2006 12:30 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	14.00 KB (14,336 bytes)	7/22/2005 1:04 PM
wmiprvse.exe	Not Available	824	8	Not Available	Not Available
1/24/2006	12:31 PM	Not Available	Not Available	Not Available	Not Available
csrss.exe	Not Available	1492	13	Not Available	Not Available
1/24/2006	4:01 PM	Not Available	Not Available	Not Available	Not Available
winlogon.exe	c:\windows\system32\winlogon.exe	1384	13	204800	1413120
1413120	1/24/2006 4:01 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	497.00 KB (508,928 bytes)	7/22/2005 1:04 PM
rdpclip.exe	c:\windows\system32\rdpclip.exe	584	8	204800	1413120
1413120	1/24/2006 4:02 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	68.00 KB (69,632 bytes)	7/22/2005 1:04 PM
userinit.exe	c:\windows\system32\userinit.exe	816	8	204800	1413120
1413120	1/24/2006 4:02 PM	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	25.50 KB (26,112 bytes)	3/25/2003 11:00 AM
explorer.exe	c:\windows\explorer.exe	1884	8	204800	1413120
1413120	1/24/2006 4:02 PM	6.00.3790.1830	(srv03_sp1_rtm.050324-1447)	1.00 MB (1,050,624 bytes)	7/22/2005 1:04 PM

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msinfo32.exe c:\program files\common files\microsoft
shared\msinfo\msinfo32.exe 1528 8 204800 1413120 1/24/2006 4:02
PM 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 42.00 KB (43,008
bytes) 7/22/2005 1:05 PM
wmiprvse.exe Not Available 1748 8 Not Available Not Available
1/24/2006 4:02 PM Not Available Not Available Not Available

```

[Loaded Modules]

Name	Version	Size	File Date	Manufacturer	Path
winlogon	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	497.00 KB	(508,928 bytes)	7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\winlogon.exe
ntdll	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	748.50 KB (766,464 bytes)	3/25/2003 11:00 AM	Microsoft Corporation c:\windows\system32\ntdll.dll
kernel32	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	1,014.00 KB (1,038,336 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\kernel32.dll
advapi32	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	605.50 KB (620,032 bytes)	3/25/2003 11:00 AM	Microsoft Corporation c:\windows\system32\advapi32.dll
rpcrt4	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	627.00 KB (642,048 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\rpcrt4.dll
crypt32	5.131.3790.1830	(srv03_sp1_rtm.050324-1447)	582.00 KB (595,968 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\crypt32.dll
msasn1	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	56.50 KB (57,856 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\msasn1.dll
msvcrt	7.0.3790.1830	(srv03_sp1_rtm.050324-1447)	340.50 KB (348,672 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\msvcrt.dll
user32	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	574.50 KB (588,288 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\user32.dll
gdi32	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	273.00 KB (279,552 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\gdi32.dll
nddeapi	5.2.3790.0	(srv03_rtm.030324-2048)	16.00 KB (16,384 bytes)	3/25/2003 11:00 AM	Microsoft Corporation c:\windows\system32\nddeapi.dll
profmap	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	22.50 KB (23,040 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\profmap.dll
netapi32	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	341.50 KB (349,696 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\netapi32.dll
userenv	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	771.00 KB (789,504 bytes)	3/25/2003 11:00 AM	Microsoft Corporation c:\windows\system32\userenv.dll
psapi	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	20.00 KB (20,480 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\psapi.dll
regapi	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	55.00 KB (56,320 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\regapi.dll

secur32	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	64.00 KB (65,536 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\secur32.dll
setupapi	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	1.03 MB (1,079,808 bytes)	3/25/2003 11:00 AM	Microsoft Corporation c:\windows\system32\setupapi.dll
version	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	18.00 KB (18,432 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\version.dll
winsta	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	54.50 KB (55,808 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\winsta.dll
ws2_32	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	82.00 KB (83,968 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\ws2_32.dll
ws2help	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	19.50 KB (19,968 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\ws2help.dll
msgina	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	1.16 MB (1,211,904 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\msgina.dll
shsvcs	6.00.3790.1830	(srv03_sp1_rtm.050324-1447)	131.50 KB (134,656 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\shsvcs.dll
shlwapi	6.00.3790.1830	(srv03_sp1_rtm.050324-1447)	313.50 KB (321,024 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\shlwapi.dll
sfc	5.2.3790.0	(srv03_rtm.030324-2048)	4.50 KB (4,608 bytes)	3/25/2003 11:00 AM	Microsoft Corporation c:\windows\system32\sfc.dll
sfc_os	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	138.00 KB (141,312 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\sfc_os.dll
wintrust	5.131.3790.1830	(srv03_sp1_rtm.050324-1447)	162.00 KB (165,888 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\wintrust.dll
imagehlp	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	145.50 KB (148,992 bytes)	3/25/2003 11:00 AM	Microsoft Corporation c:\windows\system32\imagehlp.dll
ole32	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	1.19 MB (1,245,184 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\ole32.dll
comctl32	6.0	(srv03_sp1_rtm.050324-1447)	1.00 MB (1,051,136 bytes)	3/24/2005 8:41 PM	Microsoft Corporation c:\windows\winsxs\x86_microsoft.windows.common-controls_6595b64144ccf1df_6.0.3790.1830_x-ww_7ae38ccf\comctl32.dll
winscard	5.2.3790.0	(srv03_rtm.030324-2048)	98.50 KB (100,864 bytes)	3/25/2003 11:00 AM	Microsoft Corporation c:\windows\system32\winscard.dll
wtsapi32	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	19.00 KB (19,456 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\wtsapi32.dll
winmm	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	172.50 KB (176,640 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\winmm.dll
sxs	5.2.3790.1830	(srv03_sp1_rtm.050324-1447)	743.50 KB (761,344 bytes)	7/22/2005 1:04 PM	Microsoft Corporation c:\windows\system32\sxs.dll

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shell32 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 7.99 MB (8,379,392
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\shell32.dll
wldap32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 174.50 KB (178,688
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\wldap32.dll
cscdll 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 100.00 KB (102,400
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\cscdll.dll
dimefont 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 19.00 KB
(19,456 bytes) 7/22/2005 1:07 PM Microsoft Corporation
c:\windows\system32\dimefont.dll
rsaenh 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 183.98 KB (188,392
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\rsaenh.dll
wlnotify 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 94.50 KB
(96,768 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\wlnotify.dll
mpr 5.2.3790.0 (srv03_rtm.030324-2048) 56.00 KB (57,344 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\mpr.dll
oleaut32 5.2.3790.1830 543.00 KB (556,032 bytes) 3/25/2003
11:00 AM Microsoft Corporation c:\windows\system32\oleaut32.dll
winpool 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 147.00 KB
(150,528 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\winpool.drv
comctl32 5.82 (srv03_sp1_rtm.050324-1447) 585.00 KB (599,040
bytes) 3/24/2005 8:41 PM Microsoft Corporation
c:\windows\winsxs\x86_microsoft.windows.common-
controls_6595b64144ccf1df_5.82.3790.1830_x-ww_1b6f474a\comctl32.dll
uxtheme 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 202.00 KB (206,848
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\uxtheme.dll
samlib 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 46.50 KB (47,616
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\samlib.dll
clbcatq 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 502.50 KB
(514,560 bytes) 7/22/2005 1:04 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 11:00 AM Microsoft Corporation
c:\windows\system32\comres.dll
xpsp2res 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 2.76 MB
(2,897,920 bytes) 7/22/2005 1:07 PM Microsoft Corporation
c:\windows\system32\xpsp2res.dll
cscui 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 319.50 KB (327,168
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\cscui.dll
ntmarta 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 120.50 KB (123,392
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\ntmarta.dll
wbemprox 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 20.50 KB
(20,992 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\wbem\wbemprox.dll
wbemcomn 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 221.00 KB
(226,304 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\wbem\wbemcomn.dll

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wbemsvc 5.2.3790.0 (srv03_rtm.030324-2048) 42.50 KB (43,520 bytes)
10/19/2004 7:46 PM Microsoft Corporation
c:\windows\system32\wbem\wbemsvc.dll
fastprox 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 471.00 KB
(482,304 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\wbem\fastprox.dll
msvcpx60 6.05.2144.0 388.00 KB (397,312 bytes) 3/25/2003 11:00 AM
Microsoft Corporation c:\windows\system32\msvcpx60.dll
ntdsapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 71.00 KB (72,704
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\ntdsapi.dll
dnsapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 153.50 KB (157,184
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\dnsapi.dll
services 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 107.50 KB
(110,080 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\services.exe
ncobjapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 36.00 KB
(36,864 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\ncobjapi.dll
scesrv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 327.00 KB (334,848
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\scesrv.dll
authz 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 66.50 KB (68,096
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\authz.dll
umpnpgmr 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 126.50 KB
(129,536 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\umpnpgmr.dll
eventlog 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 67.50 KB
(69,120 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\eventlog.dll
lsass 5.2.3790.0 (srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\lsass.exe
lsasrv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 803.00 KB (822,272
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\lsasrv.dll
samsrv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 450.50 KB (461,312
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\samsrv.dll
cryptdll 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 32.00 KB
(32,768 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\cryptdll.dll
msprivs 5.2.3790.0 (srv03_rtm.030324-2048) 46.50 KB (47,616 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msprivs.dll
kerberos 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 340.50 KB
(348,672 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\kerberos.dll
msvl_0 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 141.00 KB (144,384
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\msvl_0.dll
iphlpapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 92.50 KB
(94,720 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\iphlpapi.dll
netlogon 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 409.50 KB
(419,328 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\netlogon.dll

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w32time 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 222.00 KB (227,328 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\w32time.dll

schannel 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 141.00 KB (144,384 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\schannel.dll

wdigest 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 74.00 KB (75,776 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\wdigest.dll

rassfm 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 23.00 KB (23,552 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\rassfm.dll

kdcsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 213.50 KB (218,624 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\kdcsvc.dll

ntdsa 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.45 MB (1,516,032 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\ntdsa.dll

esent 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1,022.50 KB (1,047,040 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\esent.dll

ntdsatq 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 29.50 KB (30,208 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\ntdsatq.dll

mwssock 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 250.50 KB (256,512 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\mwssock.dll

scecli 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 186.50 KB (190,976 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\scecli.dll

ws03res 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 793.50 KB (812,544 bytes) 7/22/2005 1:07 PM Microsoft Corporation
c:\windows\system32\ws03res.dll

pstorsvc 5.2.3790.0 (srv03_rtm.030324-2048) 24.00 KB (24,576 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\pstorsvc.dll

psbase 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 84.00 KB (86,016 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\psbase.dll

dssenh 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 139.98 KB (143,336 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\dssenh.dll

cryptnet 5.131.3790.1830 (srv03_sp1_rtm.050324-1447) 61.00 KB (62,464 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\cryptnet.dll

sensapi 5.2.3790.0 (srv03_rtm.030324-2048) 6.00 KB (6,144 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\sensapi.dll

hnetcfg 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 343.50 KB (351,744 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\hnetcfg.dll

wshtcpip 5.2.3790.0 (srv03_rtm.030324-2048) 18.00 KB (18,432 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\wshtcpip.dll

svchost 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 14.00 KB (14,336 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\svchost.exe

rpcss 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 406.00 KB (415,744 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\rpcss.dll

wkssvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 130.00 KB (133,120 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\wkssvc.dll

wiarp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 32.50 KB (33,280 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\wiarp.dll

aelupsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 26.00 KB (26,624 bytes) 7/22/2005 1:07 PM Microsoft Corporation
c:\windows\system32\aelupsvc.dll

apphelp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 146.50 KB (150,016 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\apphelp.dll

dmserver 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 25.50 KB (26,112 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\dmserver.dll

pchsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 39.00 KB (39,936 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchsvc.dll

es 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 233.00 KB (238,592 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\es.dll

srvsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 93.50 KB (95,744 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\srvsvc.dll

seclogon 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 18.50 KB (18,944 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\seclogon.dll

sens 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 36.50 KB (37,376 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\sens.dll

wmisvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 140.00 KB (143,360 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\wbem\wmisvc.dll

vssapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 548.00 KB (561,152 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\vssapi.dll

atl 3.05.2283 83.00 KB (84,992 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\atl.dll

comsvcs 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447) 1.19 MB (1,248,256 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\comsvcs.dll

wbemcore 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 497.50 KB (509,440 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\wbem\wbemcore.dll

esscli 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 250.00 KB (256,000 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\wbem\esscli.dll

wmiutils 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 93.50 KB (95,744 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\wbem\wmiutils.dll

repdrvfs 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 172.50 KB (176,640 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\wbem\repdrvfs.dll

wmiprvsd 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 404.00 KB (413,696 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\system32\wbem\wmiprvsd.dll

wbemess 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 271.50 KB (278,016 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\windows\system32\wbem\wbemess.dll

netman 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 258.50 KB (264,704 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\netman.dll

mprapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 89.00 KB (91,136 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\mprapi.dll

activeds 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 194.00 KB (198,656 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\activeds.dll

adsl dpc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 146.00 KB (149,504 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\adsl dpc.dll

credui 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 162.00 KB (165,888 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\credui.dll

rtutils 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 34.50 KB (35,328 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\rtutils.dll

netshell 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 1.73 MB (1,812,992 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\netshell.dll

clusapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 60.00 KB (61,440 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\clusapi.dll

rasapi32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 239.50 KB (245,248 bytes) 3/25/2003 11:00 AM Microsoft Corporation c:\windows\system32\rasapi32.dll

rasman 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 61.50 KB (62,976 bytes) 3/25/2003 11:00 AM Microsoft Corporation c:\windows\system32\rasman.dll

tapi32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 179.50 KB (183,808 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\tapi32.dll

wininet 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 646.00 KB (661,504 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\wininet.dll

wzcsapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 41.00 KB (41,984 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\wzcsapi.dll

wzcsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 364.50 KB (373,248 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\wzcsvc.dll

wmi 5.2.3790.0 (srv03_rtm.030324-2048) 6.50 KB (6,656 bytes) 3/25/2003 11:00 AM Microsoft Corporation c:\windows\system32\wmi.dll

dhcpcsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 113.50 KB (116,224 bytes) 3/25/2003 11:00 AM Microsoft Corporation c:\windows\system32\dhcpcsvc.dll

netcfgx 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 763.00 KB (781,312 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\netcfgx.dll

winipsec 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 35.50 KB (36,352 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\winipsec.dll

rasmans 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 176.00 KB (180,224 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\rasmans.dll

rastapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 62.00 KB (63,488 bytes) 3/25/2003 11:00 AM Microsoft Corporation c:\windows\system32\rastapi.dll

rasppp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 205.00 KB (209,920 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\rasppp.dll

ntlsapi 5.2.3790.0 (srv03_rtm.030324-2048) 8.00 KB (8,192 bytes) 3/25/2003 11:00 AM Microsoft Corporation c:\windows\system32\ntlsapi.dll

raschap 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 119.50 KB (122,368 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\raschap.dll

rastls 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 180.00 KB (184,320 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\rastls.dll

cryptui 5.131.3790.1830 (srv03_sp1_rtm.050324-1447) 496.50 KB (508,416 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\cryptui.dll

ipbootp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 36.00 KB (36,864 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\ipbootp.dll

rasdlg 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 663.00 KB (678,912 bytes) 3/25/2003 11:00 AM Microsoft Corporation c:\windows\system32\rasdlg.dll

rasadhlp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 7.50 KB (7,680 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\rasadhlp.dll

ncprov 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 46.50 KB (47,616 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\windows\system32\wbem\ncprov.dll

actxprxy 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 96.50 KB (98,816 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\actxprxy.dll

mnmsrvc 5.2.3790.1830 32.00 KB (32,768 bytes) 7/22/2005 1:04 PM Microsoft Corporation c:\windows\system32\mnmsrvc.exe

nmcom 5.2.3790.1830 76.00 KB (77,824 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\program files\netmeeting\nmcom.dll

wsock32 5.2.3790.0 (srv03_rtm.030324-2048) 22.00 KB (22,528 bytes) 3/25/2003 11:00 AM Microsoft Corporation c:\windows\system32\wsock32.dll

mst120 5.2.3790.1830 268.00 KB (274,432 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\program files\netmeeting\mst120.dll

nmas 5.2.3790.1830 224.00 KB (229,376 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\program files\netmeeting\nmas.dll

nmasnt 5.2.3790.1830 28.00 KB (28,672 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\program files\netmeeting\nmasnt.dll

h323cc 5.2.3790.1830 56.00 KB (57,344 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\program files\netmeeting\h323cc.dll

callcont 5.2.3790.1830 376.00 KB (385,024 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\program files\netmeeting\callcont.dll

nac 5.2.3790.1830 216.00 KB (221,184 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\program files\netmeeting\nac.dll

msacm32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 69.50 KB (71,168 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\msacm32.dll
msvfw32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 117.00 KB (119,808 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\msvfw32.dll
dcap32 5.2.3790.1830 40.00 KB (40,960 bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\program files\netmeeting\dcap32.dll
winrnrr 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 17.00 KB (17,408 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\winrnrr.dll
rundll32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 34.00 KB (34,816 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\rundll32.exe
msconf 5.2.3790.1830 72.00 KB (73,728 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\msconf.dll
explorer 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 1.00 MB (1,050,624 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\explorer.exe
browseui 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 1,009.00 KB (1,033,216 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\browseui.dll
shdocvw 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 1.43 MB (1,502,720 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\shdocvw.dll
themeui 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 377.50 KB (386,560 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\themeui.dll
msimg32 5.2.3790.0 (srv03_rtm.030324-2048) 4.50 KB (4,608 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msimg32.dll
urlmon 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 673.00 KB (689,152 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32?urlmon.dll
linkinfo 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 19.00 KB (19,456 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\linkinfo.dll
ntshrui 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 140.00 KB (143,360 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\ntshrui.dll
webcheck 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 272.50 KB (279,040 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\webcheck.dll
stobject 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 120.50 KB (123,392 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\stobject.dll
batmeter 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 31.50 KB (32,256 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\batmeter.dll
powerprof 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 16.50 KB (16,896 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\powerprof.dll
drprov 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 14.00 KB (14,336 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\drprov.dll
ntlanman 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 43.50 KB (44,544 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\ntlanman.dll

netui0 5.2.3790.0 (srv03_rtm.030324-2048) 75.50 KB (77,312 bytes) 3/25/2003 11:00 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 11:00 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 11:00 AM Microsoft Corporation
c:\windows\system32\davclnt.dll
termsrv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 239.00 KB (244,736 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\termsrv.dll
icaapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 12.50 KB (12,800 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\icaapi.dll
mstlsapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 116.00 KB (118,784 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\mstlsapi.dll
rdpwsx 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 101.63 KB (104,072 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\rdpwsx.dll
rhostsvr Not Available 54.50 KB (55,808 bytes) 10/20/2004 12:35 PM Not Available
c:\rhost\rhostsvr.exe
tapisrv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 248.50 KB (254,464 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\tapisrv.dll
unimdm 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 203.00 KB (207,872 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\unimdm.tsp
uniplat 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 13.00 KB (13,312 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\uniplat.dll
kmddsp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 34.50 KB (35,328 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\kmddsp.tsp
ndptsp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 47.00 KB (48,128 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\ndptsp.tsp
ipconf 5.2.3790.0 (srv03_rtm.030324-2048) 16.50 KB (16,896 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\ipconf.tsp
h323 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 259.50 KB (265,728 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\h323.tsp
hidphone 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 29.50 KB (30,208 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\hidphone.tsp
hid 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 18.50 KB (18,944 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\hid.dll
rdpsnd 5.2.3790.0 (srv03_rtm.030324-2048) 18.00 KB (18,432 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\rdpsnd.dll
scredir 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 28.00 KB (28,672 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\scredir.dll
msacm32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 22.00 KB (22,528 bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\msacm32.dr

```

imaadp32 5.2.3790.0 (srv03_rtm.030324-2048) 15.50 KB (15,872
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\imaadp32.acm
msadp32 5.2.3790.0 (srv03_rtm.030324-2048) 14.50 KB (14,848 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msadp32.acm
msg711 5.2.3790.0 (srv03_rtm.030324-2048) 10.00 KB (10,240 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msg711.acm
msgsm32 5.2.3790.0 (srv03_rtm.030324-2048) 20.50 KB (20,992 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msgsm32.acm
tssoft32 1.01 9.50 KB (9,728 bytes) 3/25/2003 11:00 AM DSP
GROUP, INC. c:\windows\system32\tssoft32.acm
tsd32 1.03 16.50 KB (16,896 bytes) 3/25/2003 11:00 AM DSP
GROUP, INC. c:\windows\system32\tsd32.dll
msg723 5.2.3790.1830 120.00 KB (122,880 bytes) 7/22/2005 1:04 PM
Microsoft Corporation c:\windows\system32\msg723.acm
msaud32 8.00.00.4487 288.00 KB (294,912 bytes) 3/25/2003 11:00 AM
Microsoft Corporation c:\windows\system32\msaud32.acm
sl_anet 3.02 84.00 KB (86,016 bytes) 3/25/2003 11:00 AM Sipro
Lab Telecom Inc. c:\windows\system32\sl_anet.acm
l3codeca 1, 9, 0, 0305 284.00 KB (290,816 bytes) 3/25/2003
11:00 AM Fraunhofer Institut Integrierte Schaltungen IIS
c:\windows\system32\l3codeca.acm
rdpclip 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 68.00 KB (69,632
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\rdpclip.exe
userinit 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 25.50 KB
(26,112 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\userinit.exe
msinfo32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 42.00 KB
(43,008 bytes) 7/22/2005 1:05 PM Microsoft Corporation c:\program
files\common files\microsoft shared\msinfo\msinfo32.exe
mfc42u 6.06.8063.0 1.11 MB (1,163,776 bytes) 7/22/2005 1:04 PM
Microsoft Corporation c:\windows\system32\mfc42u.dll
odbc32 3.526.1830.0 (srv03_sp1_rtm.050324-1447) 240.00 KB (245,760
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\odbc32.dll
comdlg32 6.00.3790.1830 (srv03_sp1_rtm.050324-1447) 274.50 KB
(281,088 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\comdlg32.dll
odbcint 3.526.1830.0 (srv03_sp1_rtm.050324-1447) 92.00 KB (94,208
bytes) 7/22/2005 1:04 PM Microsoft Corporation
c:\windows\system32\odbcint.dll
msinfo 5.2.3790.1830 (srv03_sp1_rtm.050324-1447) 376.00 KB (385,024
bytes) 7/22/2005 1:05 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo.dll
riched32 5.2.3790.0 (srv03_rtm.030324-2048) 3.50 KB (3,584 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\riched32.dll
riched20 5.31.23.1224 439.00 KB (449,536 bytes) 7/22/2005 1:04
PM Microsoft Corporation c:\windows\system32\riched20.dll

```

[Services]

Display Name	Name	State	Start Mode	Service Type	Path	Error
Control Start Name			Tag ID			

```

Application Experience Lookup Service AeLookupSvc Running Auto Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Alerter Alerter Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k localservice Normal NT
AUTHORITY\LocalService 0
Application Layer Gateway Service ALG Stopped Manual Own Process
c:\windows\system32\alg.exe Normal NT AUTHORITY\LocalService
0
Application Management AppMgmt Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
ASP.NET State Service aspnet_state Stopped Manual Own Process
c:\windows\microsoft.net\framework\v2.0.50727\aspnet_state.exe
Normal NT AUTHORITY\NetworkService 0
Windows Audio AudioSrv Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Background Intelligent Transfer Service BITS Stopped Manual Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Computer Browser Browser 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
.NET Runtime Optimization Service v2.0.50727_X86
clr_optimization_v2.0.50727_32 Stopped Manual Own Process
c:\windows\microsoft.net\framework\v2.0.50727\mscorsvw.exe Ignore
LocalSystem 0
COM+ System Application COMSysApp Stopped Manual Own Process
c:\windows\system32\dllhost.exe /processid:{02d4b3f1-fd88-11d1-
960d-00805fc79235} Normal LocalSystem 0
Cryptographic Services CryptSvc Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
DCOM Server Process Launcher DcomLaunch Running Auto Share Process
c:\windows\system32\svchost.exe -k dcomlaunch Normal
LocalSystem 0
Distributed File System Dfs Stopped Disabled Own Process
c:\windows\system32\dfssvc.exe Normal LocalSystem 0
DHCP Client Dhcp Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k networkservice Normal NT
AUTHORITY\NetworkService 0
Logical Disk Manager Administrative Service dmadmin Stopped Manual Share
Process c:\windows\system32\dmadmin.exe /com Normal LocalSystem 0
Logical Disk Manager dmserver Running Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
DNS Client Dnscache Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k networkservice Normal NT
AUTHORITY\NetworkService 0

```

```

Error Reporting Service      ERSvc      Stopped Manual   Share Process
c:\windows\system32\svchost.exe -k winerr      Ignore LocalSystem
0
Event Log                    Eventlog    Running Auto     Share Process
c:\windows\system32\services.exe              Normal LocalSystem 0
COM+ Event System           EventSystem Running Auto     Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
Help and Support             helpsvc     Running Auto     Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
Human Interface Device Access HidServ Stopped Disabled  Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
HTTP SSL                     HTTPFilter  Stopped Manual   Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
IIS Admin Service           IISADMIN    Stopped Manual   Share Process
c:\windows\system32\inetrv\inetinfo.exe      Normal LocalSystem
0
IMAPI CD-Burning COM Service ImapiService Stopped Disabled  Own
Process c:\windows\system32\imapi.exe Normal LocalSystem 0
Intersite Messaging         IsmServ Stopped Disabled  Own Process
c:\windows\system32\ismerv.exe Normal LocalSystem 0
Kerberos Key Distribution Center kdc Stopped Disabled  Share
Process c:\windows\system32\lsass.exe Normal LocalSystem 0
Server lanmanserver Running Auto     Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
Workstation                 lanmanworkstation Running Auto     Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
License Logging             LicenseService Stopped Disabled  Own Process
c:\windows\system32\llssrv.exe Normal NT
AUTHORITY\NetworkService 0
TCP/IP NetBIOS Helper       LmHosts Stopped Manual   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 Running Auto     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
Network DDE                 NetDDE Stopped Disabled  Share Process
c:\windows\system32\netdde.exe Normal LocalSystem 0
Network DDE DSDM           NetDDEdsdm Stopped Disabled  Share Process
c:\windows\system32\netdde.exe Normal LocalSystem 0
Net Logon                   Netlogon Stopped Manual   Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0

```

```

Network Connections         Netman Running Manual   Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
Network Location Awareness (NLA) Nla Running Manual   Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
File Replication           NtFrs Stopped Manual   Own Process
c:\windows\system32\ntfrs.exe Ignore LocalSystem 0
NT LM Security Support Provider NtLmSsp Stopped Manual   Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Removable Storage          NtmsSvc Stopped Manual   Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
Plug and Play              PlugPlay Running Auto     Share Process
c:\windows\system32\services.exe Normal LocalSystem 0
IPSEC Services PolicyAgent Stopped Manual   Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Protected Storage          ProtectedStorage Running Auto     Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Remote Access Auto Connection Manager RasAuto Stopped Manual   Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
Remote Access Connection Manager RasMan Running Manual   Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
Remote Desktop Help Session Manager RDSessMgr Stopped Manual   Own
Process c:\windows\system32\sessmgr.exe Normal LocalSystem 0
Routing and Remote Access RemoteAccess Stopped Disabled  Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Remote Registry            RemoteRegistry Running Auto     Share Process
c:\windows\system32\svchost.exe -k regsvc Normal NT
AUTHORITY\LocalService 0
Remote Procedure Call (RPC) Locator RpcLocator Stopped Manual   Own
Process c:\windows\system32\locator.exe Normal NT
AUTHORITY\NetworkService 0
Remote Procedure Call (RPC) RpcSs Running Auto     Share Process
c:\windows\system32\svchost.exe -k rpcss Normal NT
Authority\NetworkService 0
Resultant Set of Policy Provider RSOPProv Stopped Manual   Share
Process c:\windows\system32\rsopprov.exe Normal LocalSystem 0
Special Administration Console Helper sacsvr Stopped Manual   Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
Security Accounts Manager SamSs Running Auto     Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Smart Card                  SCardSvr Stopped Manual   Share Process
c:\windows\system32\scardsvr.exe Ignore NT
AUTHORITY\LocalService 0
Task Scheduler             Schedule Stopped Manual   Share Process
c:\windows\system32\svchost.exe -k netsvcs    Normal LocalSystem
0
Secondary Logon            seclogon Running Auto     Share Process
c:\windows\system32\svchost.exe -k netsvcs    Ignore LocalSystem
0

```

```

System Event Notification      SENS      Running Auto   Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Windows Firewall/Internet Connection Sharing (ICS) SharedAccess
Stopped Disabled      Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Shell Hardware Detection      ShellHWDetection Running Auto   Share
Process c:\windows\system32\svchost.exe -k netsvcs Ignore LocalSystem
0
Print Spooler Spooler Stopped Manual Own Process
c:\windows\system32\spoolsv.exe Normal LocalSystem 0
Windows Image Acquisition (WIA) stisvc Stopped Disabled Share
Process c:\windows\system32\svchost.exe -k imgsvc Normal NT
AUTHORITY\LocalService 0
Microsoft Software Shadow Copy Provider swprv Stopped Manual Own
Process c:\windows\system32\svchost.exe -k swprv Normal LocalSystem
0
Performance Logs and Alerts SysmonLog Stopped Manual Own Process
c:\windows\system32\smlogsvc.exe Normal NT
Authority\NetworkService 0
Telephony Tapisrv Running Manual Share Process
c:\windows\system32\svchost.exe -k tapisrv Normal LocalSystem
0
Terminal Services TermService Running Manual Share Process
c:\windows\system32\svchost.exe -k termsvcs Normal LocalSystem
0
Themes Themes Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Telnet TlntSvr Stopped Disabled Own Process
c:\windows\system32\tlntsvr.exe Normal NT
AUTHORITY\LocalService 0
Distributed Link Tracking Server TrkSvr Stopped Disabled Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Distributed Link Tracking Client TrkWks Stopped Disabled Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Terminal Services Session Directory Tssdis Stopped Disabled Own
Process c:\windows\system32\tssdis.exe Normal LocalSystem 0
Windows User Mode Driver Framework UMWdf Stopped Manual Own Process
c:\windows\system32\wdmfmgr.exe Normal NT
AUTHORITY\LocalService 0
Upload Manager uploadmgr Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Uninterruptible Power Supply UPS Stopped Manual Own Process
c:\windows\system32\ups.exe Normal LocalSystem 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 localservice Normal NT
AUTHORITY\LocalService 0

```

```

World Wide Web Publishing Service W3SVC Stopped Manual Share Process
c:\windows\system32\svchost.exe -k iissvcs Normal LocalSystem
0
WebClient WebClient Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k localservice Normal NT
AUTHORITY\LocalService 0
WinHTTP Web Proxy Auto-Discovery Service WinHttpAutoProxySvc
Stopped Manual Share Process c:\windows\system32\svchost.exe -k
localservice Normal NT AUTHORITY\LocalService 0
Windows Management Instrumentation winmgmt Running Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs Ignore LocalSystem
0
Portable Media Serial Number Service WndmPmSN Stopped Manual Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Windows Management Instrumentation Driver Extensions Wmi Stopped Manual
Share Process c:\windows\system32\svchost.exe -k netsvcs Normal
LocalSystem 0
WMI Performance Adapter WmiApSrv Stopped Manual Own Process
c:\windows\system32\wbem\wmiapsrv.exe Normal LocalSystem 0
Automatic Updates wuauerv Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Wireless Configuration WZCSVC Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Network Provisioning Service xmlprov Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0

```

[Program Groups]

```

Group Name      Name      User Name
Accessories     Default User:Accessories     Default User
Accessories\Accessibility     Default User:Accessories\Accessibility
Default User
Accessories\Entertainment     Default User:Accessories\Entertainment
Default User
Startup Default User:Startup Default User
Accessories     All Users:Accessories     All Users
Accessories\Accessibility     All Users:Accessories\Accessibility     All
Users
Accessories\Communications     All Users:Accessories\Communications     All
Users
Accessories\Entertainment     All Users:Accessories\Entertainment     All
Users
Accessories\System Tools     All Users:Accessories\System Tools     All
Users
Administrative Tools     All Users:Administrative Tools     All Users
Microsoft SQL Server 2005 CTP All Users:Microsoft SQL Server 2005 CTP
All Users
Microsoft SQL Server 2005 CTP\Analysis Services     All Users:Microsoft
SQL Server 2005 CTP\Analysis Services All Users
Microsoft SQL Server 2005 CTP\Configuration Tools     All Users:Microsoft
SQL Server 2005 CTP\Configuration Tools     All Users
Microsoft SQL Server 2005 CTP\Performance Tools     All Users:Microsoft
SQL Server 2005 CTP\Performance Tools All Users

```

```

Oracle - OraClient10g_home All Users:Oracle - OraClient10g_home All
Users
Oracle - OraClient10g_home\Application Development All Users:Oracle -
OraClient10g_home\Application Development All Users
Oracle - OraClient10g_home\Configuration and Migration Tools All
Users:Oracle - OraClient10g_home\Configuration and Migration Tools All
Users
Oracle - OraClient10g_home\Enterprise Management Packs All
Users:Oracle - OraClient10g_home\Enterprise Management Packs All
Users
Oracle - OraClient10g_home\Enterprise Management Packs\Change All
Users:Oracle - OraClient10g_home\Enterprise Management Packs\Change All
Users
Oracle - OraClient10g_home\Integrated Management Tools All
Users:Oracle - OraClient10g_home\Integrated Management Tools All
Users
Oracle - OraClient10g_home\Oracle Installation Products All
Users:Oracle - OraClient10g_home\Oracle Installation Products All
Users
Startup All Users:Startup All Users
Accessories NT AUTHORITY\SYSTEM:Accessories NT AUTHORITY\SYSTEM

Accessories\Accessibility NT
AUTHORITY\SYSTEM:Accessories\Accessibility NT AUTHORITY\SYSTEM
Accessories\Entertainment NT
AUTHORITY\SYSTEM:Accessories\Entertainment NT AUTHORITY\SYSTEM
Startup NT AUTHORITY\SYSTEM:Startup NT AUTHORITY\SYSTEM
Accessories CLIENT1\Administrator:Accessories CLIENT1\Administrator

Accessories\Accessibility
CLIENT1\Administrator:Accessories\Accessibility
CLIENT1\Administrator
Accessories\Entertainment
CLIENT1\Administrator:Accessories\Entertainment
CLIENT1\Administrator
Administrative Tools CLIENT1\Administrator:Administrative Tools
CLIENT1\Administrator
Startup CLIENT1\Administrator:Startup CLIENT1\Administrator

[Startup Programs]

Program Command User Name Location
desktop desktop.ini NT AUTHORITY\SYSTEM Startup
desktop desktop.ini CLIENT1\Administrator Startup
rhost rhost.lnk CLIENT1\Administrator Startup
desktop desktop.ini .DEFAULT Startup
desktop desktop.ini All Users Common Startup

[OLE Registration]

Object Local Server
Sound (OLE2) sndrec32.exe
Media Clip mplay32.exe
Video Clip mplay32.exe /avi
MIDI Sequence mplay32.exe /mid
Sound Not Available
Media Clip Not Available
WordPad Document "%programfiles%\windows nt\accessories\wordpad.exe"

```

```

Windows Media Services DRM Storage object Not Available
Bitmap Image mspaint.exe

```

```
[Windows Error Reporting]
```

```
Time Type Details
```

```
[Internet Settings]
```

```
[Internet Explorer]
```

```
[ Following are sub-categories of this main category ]
[Summary]
```

```

Item Value
Version 6.0.3790.1830
Build 63790.1830
Application Path C:\Program Files\Internet Explorer
Language English (United States)
Active Printer Not Available

```

```

Cipher Strength 128-bit
Content Advisor Disabled
IEAK Install No

```

```
[File Versions]
```

File	Version	Size	Date	Path	Company
actxprxy.dll	6.0.3790.1830	97 KB	3/24/2005 4:55:26 PM	C:\WINDOWS\system32	Microsoft Corporation
advpack.dll	6.0.3790.1830	98 KB	3/24/2005 4:55:28 PM	C:\WINDOWS\system32	Microsoft Corporation
asctrls.ocx	6.0.3790.0	90 KB	3/25/2003 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
browsecl.dll	6.0.3790.0	62 KB	3/25/2003 11:00:00 AM	C:\WINDOWS\system32	Microsoft Corporation
browseui.dll	6.0.3790.1830	1,009 KB	3/24/2005 4:56:10 PM	C:\WINDOWS\system32	Microsoft Corporation
cdfview.dll	6.0.3790.1830	149 KB	3/24/2005 4:56:32 PM	C:\WINDOWS\system32	Microsoft Corporation
comctl32.dll	5.82.3790.1830	585 KB	3/24/2005 4:57:56 PM	C:\WINDOWS\system32	Microsoft Corporation
dxtrans.dll	6.3.3790.1830	205 KB	3/24/2005 5:00:58 PM	C:\WINDOWS\system32	Microsoft Corporation
dxtmsft.dll	6.3.3790.1830	355 KB	3/24/2005 5:00:58 PM	C:\WINDOWS\system32	Microsoft Corporation
iecont.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
iecontlc.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
iedkcs32.dll	16.0.3790.1830	324 KB	3/24/2005 5:04:58 PM	C:\WINDOWS\system32	Microsoft Corporation
iepeers.dll	6.0.3790.1830	248 KB	3/24/2005 5:04:58 PM	C:\WINDOWS\system32	Microsoft Corporation
iesetup.dll	6.0.3790.1830	61 KB	3/24/2005 5:04:58 PM	C:\WINDOWS\system32	Microsoft Corporation

```

ieunit.inf      Not Available 24 KB 3/24/2005 5:04:58 PM
C:\WINDOWS\system32 Not Available
iexplore.exe   6.0.3790.1830 92 KB 3/24/2005 5:04:58 PM C:\Program
Files\Internet Explorer Microsoft Corporation
imgutil.dll    6.0.3790.1830 38 KB 3/24/2005 5:05:04 PM
C:\WINDOWS\system32 Microsoft Corporation
inetcpl.cpl    6.0.3790.1830 358 KB 3/24/2005 5:05:06 PM
C:\WINDOWS\system32 Microsoft Corporation
inetcplc.dll  6.0.3790.0 109 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inseng.dll    6.0.3790.1830 94 KB 3/24/2005 5:05:06 PM
C:\WINDOWS\system32 Microsoft Corporation
mlang.dll     6.0.3790.1830 578 KB 3/24/2005 5:07:20 PM
C:\WINDOWS\system32 Microsoft Corporation
msencode.dll  2002.10.4.0 112 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 矣旱Dz晨口物
mshta.exe     6.0.3790.1830 30 KB 3/24/2005 5:07:26 PM
C:\WINDOWS\system32 Microsoft Corporation
mshhtml.dll   6.0.3790.1830 3,036 KB 3/24/2005 5:07:26 PM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.tlb    6.0.3790.1830 1,320 KB 3/24/2005 5:07:26 PM
C:\WINDOWS\system32 Microsoft Corporation
mshhtml.dll   6.0.3790.1830 455 KB 3/24/2005 5:07:26 PM
C:\WINDOWS\system32 Microsoft Corporation
mshhtmler.dll 6.0.3790.1830 56 KB 3/24/2005 5:07:26 PM
C:\WINDOWS\system32 Microsoft Corporation
msident.dll   6.0.3790.1830 48 KB 3/24/2005 5:07:28 PM
C:\WINDOWS\system32 Microsoft Corporation
msidntld.dll  6.0.3790.0 15 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msieftp.dll   6.0.3790.1830 244 KB 3/24/2005 5:07:28 PM
C:\WINDOWS\system32 Microsoft Corporation
msrating.dll  6.0.3790.1830 144 KB 3/24/2005 5:07:36 PM
C:\WINDOWS\system32 Microsoft Corporation
mstime.dll   6.0.3790.1830 523 KB 3/24/2005 5:07:38 PM
C:\WINDOWS\system32 Microsoft Corporation
occache.dll   6.0.3790.1830 94 KB 3/24/2005 5:08:34 PM
C:\WINDOWS\system32 Microsoft Corporation
proctexe.ocx  6.3.3790.1830 83 KB 3/24/2005 5:12:26 PM
C:\WINDOWS\system32 Intel Corporation
sendmail.dll  6.0.3790.1830 56 KB 3/24/2005 5:13:36 PM
C:\WINDOWS\system32 Microsoft Corporation
shdoclc.dll   6.0.3790.0 589 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdocvw.dll  6.0.3790.1830 1,468 KB 3/24/2005 5:13:36 PM
C:\WINDOWS\system32 Microsoft Corporation
shfolder.dll  6.0.3790.1830 25 KB 3/24/2005 5:13:36 PM
C:\WINDOWS\system32 Microsoft Corporation
shlwapi.dll   6.0.3790.1830 314 KB 3/24/2005 5:13:40 PM
C:\WINDOWS\system32 Microsoft Corporation
tdc.ocx 1.3.0.3130 58 KB 3/25/2003 11:00:00 AM C:\WINDOWS\system32
Microsoft Corporation
url.dll 6.0.3790.1830 37 KB 3/24/2005 5:26:12 PM C:\WINDOWS\system32
Microsoft Corporation
urlmon.dll    6.0.3790.1830 673 KB 3/24/2005 5:26:12 PM
C:\WINDOWS\system32 Microsoft Corporation
webcheck.dll  6.0.3790.1830 273 KB 3/24/2005 5:26:16 PM
C:\WINDOWS\system32 Microsoft Corporation

```

```

wininet.dll 6.0.3790.1830 646 KB 3/24/2005 5:26:18 PM
C:\WINDOWS\system32 Microsoft Corporation

```

[Connectivity]

```

Item Value
Connection Preference Never dial

```

LAN Settings

```

AutoConfigProxy wininet.dll
AutoProxyDetectMode Disabled
AutoConfigURL
Proxy Disabled
ProxyServer
ProxyOverride

```

[Cache]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Page Refresh Type Automatic
Temporary Internet Files Folder C:\Documents and
Settings\Administrator\Local Settings\Temporary Internet Files
Total Disk Space Not Available
Available Disk Space Not Available
Maximum Cache Size Not Available
Available Cache Size Not Available

```

[List of Objects]

```

Program File Status CodeBase
No cached object information available

```

[Content]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Content Advisor Disabled

```

[Personal Certificates]

```

Issued To Issued By Validity Signature Algorithm
No personal certificate information available

```

[Other People Certificates]

```

Issued To Issued By Validity Signature Algorithm
No other people certificate information available

```

[Publishers]

Name

No publisher information available

[Security]

Zone	Security Level
My Computer	Custom
Local intranet	Custom
Trusted sites	Custom
Internet	Custom
Restricted sites	Custom

Client Hyperthreading Information (Common to 4 clients)

Hyper-Threading Technology is available.
 Logical Processors Per Package: 2
 OS Affinity ID: 0x00000001, APIC ID: 0 PHY ID: 0, LOG ID: 0
 OS Affinity ID: 0x00000002, APIC ID: 6 PHY ID: 3, LOG ID: 0
 OS Affinity ID: 0x00000004, APIC ID: 1 PHY ID: 0, LOG ID: 1
 OS Affinity ID: 0x00000008, APIC ID: 7 PHY ID: 3, LOG ID: 1
 Processors with Hyper-Threading Technology enabled was detected.

Windows 2003 IP Configuration Information

(Common to 4 clients except for Host Name, Physical Address, and IP Address)

Swcfg.ver

Windows IP Configuration

```
Host Name . . . . . : Client1
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
```

WINS Proxy Enabled. : No

Ethernet adapter RTE:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2
Physical Address. . . . . : 00-11-43-35-4D-E2
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.1.10.1
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.9.1.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection
Physical Address. . . . . : 00-11-43-35-4D-E1
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.123.2
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.168.91.1
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.2.9
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpi. . . . . : Disabled
```

Volume in drive C has no label.

Volume Serial Number is 9491-81F8

Directory of C:\inetpub\wwwroot

```
09/23/2005  09:56 AM           90,112 tpcc.dll
             1 File(s)         90,112 bytes
             0 Dir(s)    14,283,501,568 bytes free
```

Volume in drive C has no label.
Volume Serial Number is 9491-81F8

Directory of C:\inetpub\wwwroot

```
09/23/2005  09:55 AM           94,208 tpcc_com_all.dll
             1 File(s)         94,208 bytes
             0 Dir(s)    14,283,501,568 bytes free
```

Volume in drive C has no label.
Volume Serial Number is 9491-81F8

Directory of C:\inetpub\wwwroot

```
09/23/2005  09:55 AM           24,576 tpcc_com_ps.dll
             1 File(s)         24,576 bytes
             0 Dir(s)    14,283,501,568 bytes free
```

System_Currentcontrolset_Services_HTTP.txt

```
\registry\machine\system\currentcontrolset\services\HTTP\Parameters
  DisableServerHeader = REG_DWORD 0x00000001
  MaxConnections = REG_DWORD 0x0001ffff
  SslBindingInfo
  Synchronize
  UrlAclInfo
```

Component Services Configuration

Complus.txt

Component Services Configuration

```
COM+ Component TPCC.AllTxns Settings:
  Transactions not supported
  Enable object pooling
  Minimum pool size 164
  Maximum pool size 164
  Creation timeout 120,000
  Enable object construction
  Enable just in time activation
  Concurrency required
```

Internet Information Server Registry Parameters

System_Currentcontrolset_Services_Inetinfo.txt

```
\registry\machine\system\currentcontrolset\services\inetinfo
  Parameters
    ListenBackLog = REG_DWORD 0x00000050
    BandwidthLevel = REG_DWORD 0xffffffff
    ThreadTimeout = REG_DWORD 0x00015180
    DisableMemoryCache = REG_DWORD 0x00000001
    MemoryCacheSize = REG_DWORD 0x00000000
    PoolThreadLimit = REG_DWORD 0x000000ff
    ObjectCacheTTL = REG_DWORD 0xffffffff
    MaxConnections = REG_DWORD 0x0001ffff
  Performance
    Library = infoctrs.dll
    Open = OpenINFOPerformanceData
    Close = CloseINFOPerformanceData
    Collect = CollectINFOPerformanceData
    PerfIniFile = infoctrs.ini
    Last Counter = REG_DWORD 0x000009a6
    Last Help = REG_DWORD 0x000009a7
    First Counter = REG_DWORD 0x00000966
    First Help = REG_DWORD 0x00000967
    Object List = 2406
    Library Validation Code = REG_BINARY 0x00000010 0x05d12400
0x01c4b6d8 0x00002000 0x00000000
    WbemAdapFileSignature = REG_BINARY 0x00000010 0xe7d3c34c
0xe056ca44 0x14a0e8f3 0x0ffb2652
    WbemAdapFileTime = REG_BINARY 0x00000008 0x05388d80 0x01c4b6d8
    WbemAdapFileSize = REG_DWORD 0x00002000
    WbemAdapStatus = REG_DWORD 0x00000000
```

Tcpip Parameters

System_Currentcontrolset_Services_Tcpip.txt

(Common to 4 clients except for Host Name, Physical Address, and IP Address)

```
\registry\machine\system\currentcontrolset\services\Tcpip\Parameters
NV Hostname = Client1
DataBasePath = REG_EXPAND_SZ %SystemRoot%\System32\drivers\etc
NameServer =
ForwardBroadcasts = REG_DWORD 0x00000000
IPEnableRouter = REG_DWORD 0x00000000
Domain =
Hostname = Client1
SearchList =
UseDomainNameDevolution = REG_DWORD 0x00000000
EnableICMPRedirect = REG_DWORD 0x00000001
DeadGWDetectDefault = REG_DWORD 0x00000001
DontAddDefaultGatewayDefault = REG_DWORD 0x00000000
EnableSecurityFilters = REG_DWORD 0x00000000
ReservedPorts = REG_MULTI_SZ "3343-3343"
KeepAliveInterval = REG_DWORD 0x00002710
MaxUserPort = REG_DWORD 0x0001ffff
Adapters
  NdisWanIp
    LLInterface = WANARP
    IpConfig = REG_MULTI_SZ
"Tcpip\Parameters\Interfaces\{2D13871F-65E0-4488-975A-87F4820F3CA7}" \
"Tcpip\Parameters\Interfaces\{C66855BE-E13A-4E93-B9E8-4AEAB2144A65}"
  NumInterfaces = REG_DWORD 0x00000002
  IpInterfaces = REG_BINARY 0x00000020 0x2d13871f 0x448865e0
0xf4875a97 0xa73c0f82 0xc66855be 0x4e93e13a 0xea4ae8b9 0x654a14b2
  {35D335E3-7BFB-4A25-803D-7C9A89A68C20}
  LLInterface =
  IpConfig = REG_MULTI_SZ
"Tcpip\Parameters\Interfaces\{35D335E3-7BFB-4A25-803D-7C9A89A68C20}"
  {8D10888B-172C-42DA-9119-F690C6569F08}
  LLInterface =
  IpConfig = REG_MULTI_SZ
"Tcpip\Parameters\Interfaces\{8D10888B-172C-42DA-9119-F690C6569F08}"
  DNSRegisteredAdapters
  Interfaces
  {2D13871F-65E0-4488-975A-87F4820F3CA7}
  UseZeroBroadcast = REG_DWORD 0x00000000
  EnableDHCP = REG_DWORD 0x00000000
  IPAddress = REG_MULTI_SZ "0.0.0.0"
  SubnetMask = REG_MULTI_SZ "0.0.0.0"
  DefaultGateway = REG_MULTI_SZ
  EnableDeadGWDetect = REG_DWORD 0x00000001
  DontAddDefaultGateway = REG_DWORD 0x00000000
  {35D335E3-7BFB-4A25-803D-7C9A89A68C20}
  UseZeroBroadcast = REG_DWORD 0x00000000
  EnableDeadGWDetect = REG_DWORD 0x00000001
  EnableDHCP = REG_DWORD 0x00000000
  IPAddress = REG_MULTI_SZ "192.158.2.9" \
```

```
"192.168.91.1" \
"192.168.123.2" \
SubnetMask = REG_MULTI_SZ "255.255.255.0" \
"255.255.255.0" \
"255.255.255.0"
DefaultGateway = REG_MULTI_SZ
DefaultGatewayMetric = REG_MULTI_SZ
NameServer =
Domain =
RegistrationEnabled = REG_DWORD 0x00000000
RegisterAdapterName = REG_DWORD 0x00000000
TCPAllowedPorts = REG_MULTI_SZ "0"
UDPAllowedPorts = REG_MULTI_SZ "0"
RawIPAllowedProtocols = REG_MULTI_SZ "0"
NTEContextList = REG_MULTI_SZ "0x00000004" \
"0x00000005" \
"0x00000006"
DhcpClassIdBin = REG_BINARY 0x00000000
DhcpServer = 255.255.255.255
Lease = REG_DWORD 0x00000e10
LeaseObtainedTime = REG_DWORD 0x4176cfaa
T1 = REG_DWORD 0x4176db2
T2 = REG_DWORD 0x4176dbf8
LeaseTerminatesTime = REG_DWORD 0x4176ddba
IPAutoconfigurationAddress = 0.0.0.0
IPAutoconfigurationMask = 255.255.0.0
IPAutoconfigurationSeed = REG_DWORD 0x00000000
AddressType = REG_DWORD 0x00000000
{8D10888B-172C-42DA-9119-F690C6569F08}
UseZeroBroadcast = REG_DWORD 0x00000000
EnableDeadGWDetect = REG_DWORD 0x00000001
EnableDHCP = REG_DWORD 0x00000000
IPAddress = REG_MULTI_SZ "192.9.1.1" \
"192.1.10.1"
SubnetMask = REG_MULTI_SZ "255.255.255.0" \
"255.255.255.0"
DefaultGateway = REG_MULTI_SZ
DefaultGatewayMetric = REG_MULTI_SZ
NameServer =
Domain =
RegistrationEnabled = REG_DWORD 0x00000000
RegisterAdapterName = REG_DWORD 0x00000000
TCPAllowedPorts = REG_MULTI_SZ "0"
UDPAllowedPorts = REG_MULTI_SZ "0"
RawIPAllowedProtocols = REG_MULTI_SZ "0"
NTEContextList = REG_MULTI_SZ "0x00000002" \
"0x00000003"
DhcpClassIdBin = REG_BINARY 0x00000000
DhcpServer = 255.255.255.255
Lease = REG_DWORD 0x00000e10
LeaseObtainedTime = REG_DWORD 0x4176aa20
T1 = REG_DWORD 0x4176b128
T2 = REG_DWORD 0x4176b66e
LeaseTerminatesTime = REG_DWORD 0x4176b830
IPAutoconfigurationAddress = 0.0.0.0
IPAutoconfigurationMask = 255.255.0.0
IPAutoconfigurationSeed = REG_DWORD 0x00000000
AddressType = REG_DWORD 0x00000000
{C66855BE-E13A-4E93-B9E8-4AEAB2144A65}
```

```

UseZeroBroadcast = REG_DWORD 0x00000000
EnableDHCP = REG_DWORD 0x00000000
IPAddress = REG_MULTI_SZ "0.0.0.0"
SubnetMask = REG_MULTI_SZ "0.0.0.0"
DefaultGateway = REG_MULTI_SZ
EnableDeadGWDetect = REG_DWORD 0x00000001
DontAddDefaultGateway = REG_DWORD 0x00000000
PersistentRoutes
Winsock
UseDelayedAcceptance = REG_DWORD 0x00000000
HelperDllName = REG_EXPAND_SZ %SystemRoot%\System32\wshtcpip.dll
MaxSockAddrLength = REG_DWORD 0x00000010
MinSockAddrLength = REG_DWORD 0x00000010
Mapping = REG_BINARY 0x00000008c 0x00000000b 0x000000003 0x000000002
0x000000001 0x000000006 0x000000002 0x000000001 0x000000000 0x000000002
0x000000000 0x000000006 0x000000000 0x000000000 0x000000006 0x000000000
0x000000001 0x000000006 0x000000002 \
0x000000002 0x000000011 0x000000002 0x000000002 0x000000000
0x000000002 0x000000000 0x000000011 0x000000000 0x000000000 0x000000011
0x000000000 0x000000002 0x000000011 0x000000002 0x000000003 0x000000000

```

System_Currentcontrolset_Services_lpxkdrv.txt

```

\registry\machine\system\currentcontrolset\services\lpxkdrv
Type = REG_DWORD 0x00000001
Start = REG_DWORD 0x00000003
ErrorControl = REG_DWORD 0x00000001
ImagePath = REG_EXPAND_SZ system32\DRIVERS\lpxkdrv.sys
DisplayName = lpxkdrv
Description = LPXKSLI2 driver.
Affinity
0 = REG_DWORD 0xffffffff
1 = REG_DWORD 0xffffffff
2 = REG_DWORD 0xffffffff
3 = REG_DWORD 0xffffffff
4 = REG_DWORD 0xffffffff
5 = REG_DWORD 0xffffffff
6 = REG_DWORD 0xffffffff
7 = REG_DWORD 0xffffffff
Coalesce
0 = REG_DWORD 0x00000000
1 = REG_DWORD 0x00000000
2 = REG_DWORD 0x00000000
3 = REG_DWORD 0x00000000
4 = REG_DWORD 0x00000000
5 = REG_DWORD 0x00000000
6 = REG_DWORD 0x00000000
7 = REG_DWORD 0x00000000
Security [17 1]
Security = REG_BINARY 0x000000d0 0x80140001 0x0000000b8 0x0000000c4
0x00000014 0x00000030 0x001c0002 0x00000001 0x00148002 0x000f01ff
0x00000101 0x01000000 0x00000000 0x00880002 0x00000006 0x00140000
0x000201fd 0x00000101 0x05000000 \
0x00000012 0x00180000 0x000f01ff 0x00000201 0x05000000
0x00000020 0x00000220 0x00140000 0x0002018d 0x00000101 0x05000000

```

```

0x00000004 0x00140000 0x0002018d 0x00000101 0x05000000 0x00000006
0x00140000 0x00000100 0x00000101 \
0x05000000 0x0000000b 0x00180000 0x000201fd 0x00000201
0x05000000 0x00000020 0x00000223 0x00000101 0x05000000 0x00000012
0x00000101 0x05000000 0x00000012
TgtIntCnt
0 = REG_DWORD 0x00000000
1 = REG_DWORD 0x00000000
2 = REG_DWORD 0x00000000
3 = REG_DWORD 0x00000000
4 = REG_DWORD 0x00000000
5 = REG_DWORD 0x00000000
6 = REG_DWORD 0x00000000
7 = REG_DWORD 0x00000000
Enum
0 =
PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\5&1b4f3478&0&180230
Count = REG_DWORD 0x00000002
NextInstance = REG_DWORD 0x00000002
1 =
PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\5&1b4f3478&0&190230

```

MSSQL Server Registry Parameters

Software_Microsoft_Mssqlserver_Client_sni90_via.txt

```

\registry\machine\software\microsoft\mssqlserver\client\SNI9.0\VIA
DLLName = SQLNCLI
NumberOfFlags = REG_DWORD 0x00000000
NumberOfProperties = REG_DWORD 0x00000002
ProtocolName = VIA
Property1
Name = Default Server Port
Value = 0:1401
Property2
Name = Default Client NIC
Value = 0
Property3
Value = Uvipl.dll
Name = VendorDLL

```

Software_Microsoft_Mssqlserver_Client_Connectto_Sqlconnect.txt

(Common to all 4 clients except for DBServer port #)

```

\registry\machine\software\microsoft\mssqlserver\client\connectto
DBSERVER = DENETLIB,via:tpcc-zorro,1401,0
DSQUERY = DBMSSOEN

```

Start World Wide Web Server Registry Parameters

System_Currentcontrolset_Services_W3svc.txt

```
\registry\machine\system\currentcontrolset\services\w3svc
Type = REG_DWORD 0x00000020
Start = REG_DWORD 0x00000003
ErrorControl = REG_DWORD 0x00000001
ImagePath = REG_EXPAND_SZ %SystemRoot%\System32\svchost.exe -k iissvcs
DisplayName = World Wide Web Publishing Service
DependOnService = REG_MULTI_SZ "IISADMIN"
DependOnGroup = REG_MULTI_SZ
ObjectName = LocalSystem
Description = Provides Web connectivity and administration through the
Internet Information Services snap-in.
FailureActions = REG_BINARY 0x0000002c 0x00015180 0x00000001
0x00000000 0x00000003 0x00650053 0x00000001 0x00000001 0x00000001
0x00000001 0x00000001 0x00000001
ASP
    NOTE = This is for backward compatibility only.
    Parameters
Parameters
MajorVersion = REG_DWORD 0x00000005
MinorVersion = REG_DWORD 0x00000000
InstallPath = c:\WINDOWS\System32\inetrv
AccessDeniedMessage = Error: Access is Denied.
ServiceDll = REG_EXPAND_SZ
C:\WINDOWS\system32\inetrv\iisw3adm.dll
AcceptExOutStanding = REG_DWORD 0x00000100
LogFileDirectory = c:\WINDOWS\System32\LogFiles
CertMapList = c:\WINDOWS\System32\inetrv\iisrmap.dll
Filter DLLs =
ADCLaunch
    AdvancedDataFactory
    RDSSEServer.DataFactory
Script Map
Virtual Roots
    / = c:\inetpub\wwwroot,,207
    /Scripts = c:\inetpub\scripts,,204
    /IISHelp = c:\WINDOWS\help\iishelp,,201
    /IISAdmin = c:\WINDOWS\System32\inetrv\iisadmin,,201
    /IISsamples = c:\inetpub\iissamples,,201
    /MSADC = c:\program files\common files\system\msadc,,205
    /Printers = c:\WINDOWS\web\printers,,201
Performance
Library = w3ctrs.dll
Open = OpenW3PerformanceData
Close = CloseW3PerformanceData
Collect = CollectW3PerformanceData
PerfIniFile = w3ctrs.ini
Last Counter = REG_DWORD 0x000008e6
Last Help = REG_DWORD 0x000008e7
First Counter = REG_DWORD 0x00000844
```

```
First Help = REG_DWORD 0x00000845
Object List = 2472 2646
Library Validation Code = REG_BINARY 0x00000010 0xc18a727c
0x01c026d2 0x00003d10 0x00000000
WbemAdapFileTime = REG_BINARY 0x00000008 0x964e6000 0x01bf40aa
WbemAdapFileSize = REG_DWORD 0x00003d10
WbemAdapStatus = REG_DWORD 0x00000000
Security [17 1]
    Security = REG_BINARY 0x000000b8 0x80140001 0x000000a0 0x000000ac
0x00000014 0x00000030 0x001c0002 0x00000001 0x00148002 0x000f01ff
0x00000101 0x01000000 0x00000000 0x00700002 0x00000004 0x00180000
0x000201fd 0x00000101 0x05000000 \
    0x00000012 0x006f0074 0x001c0000 0x000f01ff 0x00000201
0x05000000 0x00000020 0x00000220 0x00730072 0x00180000 0x0002018d
0x00000101 0x05000000 0x0000000b 0x00000220 0x001c0000 0x000201fd
0x00000201 0x05000000 0x00000020 \
    0x00000223 0x00730072 0x00000101 0x05000000 0x00000012
0x00000101 0x05000000 0x00000012
Enum
    0 = Root\LEGACY_W3SVC\0000
Count = REG_DWORD 0x00000001
NextInstance = REG_DWORD 0x00000001
```

TPCC Application Settings

Software\Unisys.txt

```
\registry\machine\software\unisys
TPCC
MAXTERMS = 120000
DELIVERYTHREADS = 30
SERVERNAME = DBSERVER
DATABASE = tpcc
```

Appendix D - RTE Code

Admin Environment

Webnnnn.cmd

```
if '%1'==' ' goto usage
if '%2'==' ' goto usage
if '%3'==' ' goto usage

:paramok

set WEBCHECKWIDS=1
set WEBDIAGLEVEL=4
set WEBEVENTLOG=0
set WEBEVENTHOST=
set WEBCHECKLEVEL=2

c:\webdriver\webadmin.exe -cweb%1.cfg -m%2 -d%3 -s160
if %ERRORLEVEL% NEQ 0 pause

goto end

:usage
@ECHO You must supply the following parameters:
@ECHO "webnnn.cmd <cfg file suffix> <min driver #> <max driver #>"
pause

:end
```

Profiles used for Performance Run

WebAdmin.cfg

```
//
// Common Driver Configuration
//
INITBASEPORT 4300
INITSYNCMAX 4
INITPAUSE 1
INITRSCALE 1000
INITTSCALE 2000
INITRWID 1,27800
INITFIXEDWID 1
INITCCLAST 208
INITCCID 208
INITCITEMID 208
```

```
//
//Configuration Driver 1
//
1 INITIPADDR 192.168.93.1
1 INITIISADDR 192.1.10.1
1 INITIISPORT 80
1 INITBROWSERS 970
1 INITMYWID 1,97
//
//Configuration Driver 2
//
2 INITIPADDR 192.168.93.1
2 INITIISADDR 192.1.10.1
2 INITIISPORT 80
2 INITBROWSERS 970
2 INITMYWID 98,194
//
//Configuration Driver 3
//
3 INITIPADDR 192.168.93.1
3 INITIISADDR 192.1.10.1
3 INITIISPORT 80
3 INITBROWSERS 970
3 INITMYWID 195,291
//
//Configuration Driver 4
//
4 INITIPADDR 192.168.93.1
4 INITIISADDR 192.1.10.1
4 INITIISPORT 80
4 INITBROWSERS 970
4 INITMYWID 292,388
//
//Configuration Driver 5
//
5 INITIPADDR 192.168.93.1
5 INITIISADDR 192.1.10.1
5 INITIISPORT 80
5 INITBROWSERS 970
5 INITMYWID 389,485
//
//Configuration Driver 6
//
6 INITIPADDR 192.168.93.1
6 INITIISADDR 192.1.10.1
6 INITIISPORT 80
6 INITBROWSERS 970
6 INITMYWID 486,582
//
//Configuration Driver 7
//
7 INITIPADDR 192.168.93.1
7 INITIISADDR 192.1.10.1
7 INITIISPORT 80
```

```

7 INITBROWSERS 970
7 INITMYWID 583,679
//
//Configuration Driver 8
//
8 INITIPADDR 192.168.93.1
8 INITIISADDR 192.1.10.1
8 INITIISPORT 80
8 INITBROWSERS 970
8 INITMYWID 680,776
//
//Configuration Driver 9
//
9 INITIPADDR 192.168.93.1
9 INITIISADDR 192.1.10.1
9 INITIISPORT 80
9 INITBROWSERS 970
9 INITMYWID 777,873
//
//Configuration Driver 10
//
10 INITIPADDR 192.168.93.1
10 INITIISADDR 192.1.10.1
10 INITIISPORT 80
10 INITBROWSERS 970
10 INITMYWID 874,970
//
//Configuration Driver 11
//
11 INITIPADDR 192.168.93.1
11 INITIISADDR 192.1.10.1
11 INITIISPORT 80
11 INITBROWSERS 970
11 INITMYWID 971,1067
//
//Configuration Driver 12
//
12 INITIPADDR 192.168.93.1
12 INITIISADDR 192.1.10.1
12 INITIISPORT 80
12 INITBROWSERS 970
12 INITMYWID 1068,1164
//
//Configuration Driver 13
//
13 INITIPADDR 192.168.93.1
13 INITIISADDR 192.1.10.1
13 INITIISPORT 80
13 INITBROWSERS 970
13 INITMYWID 1165,1261
//
//Configuration Driver 14
//
14 INITIPADDR 192.168.93.1
14 INITIISADDR 192.1.10.1
14 INITIISPORT 80
14 INITBROWSERS 970
14 INITMYWID 1262,1358
//

```

```

//Configuration Driver 15
//
15 INITIPADDR 192.168.93.1
15 INITIISADDR 192.1.10.1
15 INITIISPORT 80
15 INITBROWSERS 970
15 INITMYWID 1359,1455
//
//Configuration Driver 16
//
16 INITIPADDR 192.168.93.1
16 INITIISADDR 192.1.10.1
16 INITIISPORT 80
16 INITBROWSERS 970
16 INITMYWID 1456,1552
//
//Configuration Driver 17
//
17 INITIPADDR 192.168.93.1
17 INITIISADDR 192.1.10.1
17 INITIISPORT 80
17 INITBROWSERS 970
17 INITMYWID 1553,1649
//
//Configuration Driver 18
//
18 INITIPADDR 192.168.93.1
18 INITIISADDR 192.1.10.1
18 INITIISPORT 80
18 INITBROWSERS 970
18 INITMYWID 1650,1746
//
//Configuration Driver 19
//
19 INITIPADDR 192.168.93.1
19 INITIISADDR 192.1.10.1
19 INITIISPORT 80
19 INITBROWSERS 970
19 INITMYWID 1747,1843
//
//Configuration Driver 20
//
20 INITIPADDR 192.168.93.1
20 INITIISADDR 192.1.10.1
20 INITIISPORT 80
20 INITBROWSERS 970
20 INITMYWID 1844,1940
//
//Configuration Driver 21
//
21 INITIPADDR 192.168.93.1
21 INITIISADDR 192.1.10.1
21 INITIISPORT 80
21 INITBROWSERS 970
21 INITMYWID 1941,2037
//
//Configuration Driver 22
//
22 INITIPADDR 192.168.93.1

```

```

22 INITIISADDR 192.1.10.1
22 INITIISPORT 80
22 INITBROWSERS 970
22 INITMYWID 2038,2134
//
//Configuration Driver 23
//
23 INITIPADDR 192.168.93.1
23 INITIISADDR 192.1.10.1
23 INITIISPORT 80
23 INITBROWSERS 970
23 INITMYWID 2135,2231
//
//Configuration Driver 24
//
24 INITIPADDR 192.168.93.1
24 INITIISADDR 192.1.10.1
24 INITIISPORT 80
24 INITBROWSERS 970
24 INITMYWID 2232,2328
//
//Configuration Driver 25
//
25 INITIPADDR 192.168.93.1
25 INITIISADDR 192.1.10.1
25 INITIISPORT 80
25 INITBROWSERS 970
25 INITMYWID 2329,2425
//
//Configuration Driver 26
//
26 INITIPADDR 192.168.93.1
26 INITIISADDR 192.1.10.1
26 INITIISPORT 80
26 INITBROWSERS 970
26 INITMYWID 2426,2522
//
//Configuration Driver 27
//
27 INITIPADDR 192.168.93.1
27 INITIISADDR 192.1.10.1
27 INITIISPORT 80
27 INITBROWSERS 970
27 INITMYWID 2523,2619
//
//Configuration Driver 28
//
28 INITIPADDR 192.168.93.1
28 INITIISADDR 192.1.10.1
28 INITIISPORT 80
28 INITBROWSERS 970
28 INITMYWID 2620,2716
//
//Configuration Driver 29
//
29 INITIPADDR 192.168.93.1
29 INITIISADDR 192.1.10.1
29 INITIISPORT 80
29 INITBROWSERS 970

```

```

29 INITMYWID 2717,2813
//
//Configuration Driver 30
//
30 INITIPADDR 192.168.93.1
30 INITIISADDR 192.1.10.1
30 INITIISPORT 80
30 INITBROWSERS 970
30 INITMYWID 2814,2910
//
//Configuration Driver 31
//
31 INITIPADDR 192.168.93.1
31 INITIISADDR 192.1.10.1
31 INITIISPORT 80
31 INITBROWSERS 970
31 INITMYWID 2911,3007
//
//Configuration Driver 32
//
32 INITIPADDR 192.168.93.1
32 INITIISADDR 192.1.10.1
32 INITIISPORT 80
32 INITBROWSERS 970
32 INITMYWID 3008,3104
//
//Configuration Driver 33
//
33 INITIPADDR 192.168.93.1
33 INITIISADDR 192.1.10.1
33 INITIISPORT 80
33 INITBROWSERS 970
33 INITMYWID 3105,3201
//
//Configuration Driver 34
//
34 INITIPADDR 192.168.93.1
34 INITIISADDR 192.1.10.1
34 INITIISPORT 80
34 INITBROWSERS 970
34 INITMYWID 3202,3298
//
//Configuration Driver 35
//
35 INITIPADDR 192.168.93.1
35 INITIISADDR 192.1.10.1
35 INITIISPORT 80
35 INITBROWSERS 970
35 INITMYWID 3299,3395
//
//Configuration Driver 36
//
36 INITIPADDR 192.168.93.2
36 INITIISADDR 192.1.10.1
36 INITIISPORT 80
36 INITBROWSERS 970
36 INITMYWID 3396,3492
//
//Configuration Driver 37

```

```
//
37 INITIPADDR 192.168.93.2
37 INITIISADDR 192.1.10.1
37 INITIISPORT 80
37 INITBROWSERS 970
37 INITMYWID 3493,3589
//
//Configuration Driver 38
//
38 INITIPADDR 192.168.93.2
38 INITIISADDR 192.1.10.1
38 INITIISPORT 80
38 INITBROWSERS 970
38 INITMYWID 3590,3686
//
//Configuration Driver 39
//
39 INITIPADDR 192.168.93.2
39 INITIISADDR 192.1.10.1
39 INITIISPORT 80
39 INITBROWSERS 970
39 INITMYWID 3687,3783
//
//Configuration Driver 40
//
40 INITIPADDR 192.168.93.2
40 INITIISADDR 192.1.10.1
40 INITIISPORT 80
40 INITBROWSERS 970
40 INITMYWID 3784,3880
//
//Configuration Driver 41
//
41 INITIPADDR 192.168.93.2
41 INITIISADDR 192.1.10.1
41 INITIISPORT 80
41 INITBROWSERS 970
41 INITMYWID 3881,3977
//
//Configuration Driver 42
//
42 INITIPADDR 192.168.93.2
42 INITIISADDR 192.1.10.1
42 INITIISPORT 80
42 INITBROWSERS 970
42 INITMYWID 3978,4074
//
//Configuration Driver 43
//
43 INITIPADDR 192.168.93.2
43 INITIISADDR 192.1.10.1
43 INITIISPORT 80
43 INITBROWSERS 970
43 INITMYWID 4075,4171
//
//Configuration Driver 44
//
44 INITIPADDR 192.168.93.2
44 INITIISADDR 192.1.10.1
```

```
44 INITIISPORT 80
44 INITBROWSERS 970
44 INITMYWID 4172,4268
//
//Configuration Driver 45
//
45 INITIPADDR 192.168.93.2
45 INITIISADDR 192.1.10.1
45 INITIISPORT 80
45 INITBROWSERS 970
45 INITMYWID 4269,4365
//
//Configuration Driver 46
//
46 INITIPADDR 192.168.93.2
46 INITIISADDR 192.1.10.1
46 INITIISPORT 80
46 INITBROWSERS 970
46 INITMYWID 4366,4462
//
//Configuration Driver 47
//
47 INITIPADDR 192.168.93.2
47 INITIISADDR 192.1.10.1
47 INITIISPORT 80
47 INITBROWSERS 970
47 INITMYWID 4463,4559
//
//Configuration Driver 48
//
48 INITIPADDR 192.168.93.2
48 INITIISADDR 192.1.10.1
48 INITIISPORT 80
48 INITBROWSERS 970
48 INITMYWID 4560,4656
//
//Configuration Driver 49
//
49 INITIPADDR 192.168.93.2
49 INITIISADDR 192.1.10.1
49 INITIISPORT 80
49 INITBROWSERS 970
49 INITMYWID 4657,4753
//
//Configuration Driver 50
//
50 INITIPADDR 192.168.93.2
50 INITIISADDR 192.1.10.1
50 INITIISPORT 80
50 INITBROWSERS 970
50 INITMYWID 4754,4850
//
//Configuration Driver 51
//
51 INITIPADDR 192.168.93.2
51 INITIISADDR 192.1.10.1
51 INITIISPORT 80
51 INITBROWSERS 970
51 INITMYWID 4851,4947
```



```

//
//Configuration Driver 52
//
52 INITIPADDR 192.168.93.2
52 INITIISADDR 192.1.10.1
52 INITIISPORT 80
52 INITBROWSERS 970
52 INITMYWID 4948,5044
//
//Configuration Driver 53
//
53 INITIPADDR 192.168.93.2
53 INITIISADDR 192.1.10.1
53 INITIISPORT 80
53 INITBROWSERS 970
53 INITMYWID 5045,5141
//
//Configuration Driver 54
//
54 INITIPADDR 192.168.93.2
54 INITIISADDR 192.1.10.1
54 INITIISPORT 80
54 INITBROWSERS 970
54 INITMYWID 5142,5238
//
//Configuration Driver 55
//
55 INITIPADDR 192.168.93.2
55 INITIISADDR 192.1.10.1
55 INITIISPORT 80
55 INITBROWSERS 970
55 INITMYWID 5239,5335
//
//Configuration Driver 56
//
56 INITIPADDR 192.168.93.2
56 INITIISADDR 192.1.10.1
56 INITIISPORT 80
56 INITBROWSERS 970
56 INITMYWID 5336,5432
//
//Configuration Driver 57
//
57 INITIPADDR 192.168.93.2
57 INITIISADDR 192.1.10.1
57 INITIISPORT 80
57 INITBROWSERS 970
57 INITMYWID 5433,5529
//
//Configuration Driver 58
//
58 INITIPADDR 192.168.93.2
58 INITIISADDR 192.1.10.1
58 INITIISPORT 80
58 INITBROWSERS 970
58 INITMYWID 5530,5626
//
//Configuration Driver 59
//

```

```

59 INITIPADDR 192.168.93.2
59 INITIISADDR 192.1.10.1
59 INITIISPORT 80
59 INITBROWSERS 970
59 INITMYWID 5627,5723
//
//Configuration Driver 60
//
60 INITIPADDR 192.168.93.2
60 INITIISADDR 192.1.10.1
60 INITIISPORT 80
60 INITBROWSERS 970
60 INITMYWID 5724,5820
//
//Configuration Driver 61
//
61 INITIPADDR 192.168.93.2
61 INITIISADDR 192.1.10.1
61 INITIISPORT 80
61 INITBROWSERS 970
61 INITMYWID 5821,5917
//
//Configuration Driver 62
//
62 INITIPADDR 192.168.93.2
62 INITIISADDR 192.1.10.1
62 INITIISPORT 80
62 INITBROWSERS 970
62 INITMYWID 5918,6014
//
//Configuration Driver 63
//
63 INITIPADDR 192.168.93.2
63 INITIISADDR 192.1.10.1
63 INITIISPORT 80
63 INITBROWSERS 970
63 INITMYWID 6015,6111
//
//Configuration Driver 64
//
64 INITIPADDR 192.168.93.2
64 INITIISADDR 192.1.10.1
64 INITIISPORT 80
64 INITBROWSERS 970
64 INITMYWID 6112,6208
//
//Configuration Driver 65
//
65 INITIPADDR 192.168.93.2
65 INITIISADDR 192.1.10.1
65 INITIISPORT 80
65 INITBROWSERS 970
65 INITMYWID 6209,6305
//
//Configuration Driver 66
//
66 INITIPADDR 192.168.93.2
66 INITIISADDR 192.1.10.1
66 INITIISPORT 80

```

```

66 INITBROWSERS 970
66 INITMYWID 6306,6402
//
//Configuration Driver 67
//
67 INITIPADDR 192.168.93.2
67 INITIISADDR 192.1.10.1
67 INITIISPORT 80
67 INITBROWSERS 970
67 INITMYWID 6403,6499
//
//Configuration Driver 68
//
68 INITIPADDR 192.168.93.2
68 INITIISADDR 192.1.10.1
68 INITIISPORT 80
68 INITBROWSERS 970
68 INITMYWID 6500,6596
//
//Configuration Driver 69
//
69 INITIPADDR 192.168.93.2
69 INITIISADDR 192.1.10.1
69 INITIISPORT 80
69 INITBROWSERS 970
69 INITMYWID 6597,6693
//
//Configuration Driver 70
//
70 INITIPADDR 192.168.93.2
70 INITIISADDR 192.1.10.1
70 INITIISPORT 80
70 INITBROWSERS 970
70 INITMYWID 6694,6790
//
//Configuration Driver 71
//
71 INITIPADDR 192.168.93.3
71 INITIISADDR 192.2.10.1
71 INITIISPORT 80
71 INITBROWSERS 1000
71 INITMYWID 6791,6890
//
//Configuration Driver 72
//
72 INITIPADDR 192.168.93.3
72 INITIISADDR 192.2.10.1
72 INITIISPORT 80
72 INITBROWSERS 1000
72 INITMYWID 6891,6990
//
//Configuration Driver 73
//
73 INITIPADDR 192.168.93.3
73 INITIISADDR 192.2.10.1
73 INITIISPORT 80
73 INITBROWSERS 1000
73 INITMYWID 6991,7090
//

```

```

//Configuration Driver 74
//
74 INITIPADDR 192.168.93.3
74 INITIISADDR 192.2.10.1
74 INITIISPORT 80
74 INITBROWSERS 1000
74 INITMYWID 7091,7190
//
//Configuration Driver 75
//
75 INITIPADDR 192.168.93.3
75 INITIISADDR 192.2.10.1
75 INITIISPORT 80
75 INITBROWSERS 1000
75 INITMYWID 7191,7290
//
//Configuration Driver 76
//
76 INITIPADDR 192.168.93.3
76 INITIISADDR 192.2.10.1
76 INITIISPORT 80
76 INITBROWSERS 1000
76 INITMYWID 7291,7390
//
//Configuration Driver 77
//
77 INITIPADDR 192.168.93.3
77 INITIISADDR 192.2.10.1
77 INITIISPORT 80
77 INITBROWSERS 1000
77 INITMYWID 7391,7490
//
//Configuration Driver 78
//
78 INITIPADDR 192.168.93.3
78 INITIISADDR 192.2.10.1
78 INITIISPORT 80
78 INITBROWSERS 1000
78 INITMYWID 7491,7590
//
//Configuration Driver 79
//
79 INITIPADDR 192.168.93.3
79 INITIISADDR 192.2.10.1
79 INITIISPORT 80
79 INITBROWSERS 1000
79 INITMYWID 7591,7690
//
//Configuration Driver 80
//
80 INITIPADDR 192.168.93.3
80 INITIISADDR 192.2.10.1
80 INITIISPORT 80
80 INITBROWSERS 1000
80 INITMYWID 7691,7790
//
//Configuration Driver 81
//
81 INITIPADDR 192.168.93.3

```

```
81 INITIISADDR 192.2.10.1
81 INITIISPORT 80
81 INITBROWSERS 1000
81 INITMYWID 7791,7890
//
//Configuration Driver 82
//
82 INITIPADDR 192.168.93.3
82 INITIISADDR 192.2.10.1
82 INITIISPORT 80
82 INITBROWSERS 1000
82 INITMYWID 7891,7990
//
//Configuration Driver 83
//
83 INITIPADDR 192.168.93.3
83 INITIISADDR 192.2.10.1
83 INITIISPORT 80
83 INITBROWSERS 1000
83 INITMYWID 7991,8090
//
//Configuration Driver 84
//
84 INITIPADDR 192.168.93.3
84 INITIISADDR 192.2.10.1
84 INITIISPORT 80
84 INITBROWSERS 1010
84 INITMYWID 8091,8191
//
//Configuration Driver 85
//
85 INITIPADDR 192.168.93.3
85 INITIISADDR 192.2.10.1
85 INITIISPORT 80
85 INITBROWSERS 1000
85 INITMYWID 8192,8291
//
//Configuration Driver 86
//
86 INITIPADDR 192.168.93.3
86 INITIISADDR 192.2.10.1
86 INITIISPORT 80
86 INITBROWSERS 1000
86 INITMYWID 8292,8391
//
//Configuration Driver 87
//
87 INITIPADDR 192.168.93.3
87 INITIISADDR 192.2.10.1
87 INITIISPORT 80
87 INITBROWSERS 1000
87 INITMYWID 8392,8491
//
//Configuration Driver 88
//
88 INITIPADDR 192.168.93.3
88 INITIISADDR 192.2.10.1
88 INITIISPORT 80
88 INITBROWSERS 1000
```

```
88 INITMYWID 8492,8591
//
//Configuration Driver 89
//
89 INITIPADDR 192.168.93.3
89 INITIISADDR 192.2.10.1
89 INITIISPORT 80
89 INITBROWSERS 1000
89 INITMYWID 8592,8691
//
//Configuration Driver 90
//
90 INITIPADDR 192.168.93.3
90 INITIISADDR 192.2.10.1
90 INITIISPORT 80
90 INITBROWSERS 1000
90 INITMYWID 8692,8791
//
//Configuration Driver 91
//
91 INITIPADDR 192.168.93.3
91 INITIISADDR 192.2.10.1
91 INITIISPORT 80
91 INITBROWSERS 1000
91 INITMYWID 8792,8891
//
//Configuration Driver 92
//
92 INITIPADDR 192.168.93.3
92 INITIISADDR 192.2.10.1
92 INITIISPORT 80
92 INITBROWSERS 1000
92 INITMYWID 8892,8991
//
//Configuration Driver 93
//
93 INITIPADDR 192.168.93.3
93 INITIISADDR 192.2.10.1
93 INITIISPORT 80
93 INITBROWSERS 1000
93 INITMYWID 8992,9091
//
//Configuration Driver 94
//
94 INITIPADDR 192.168.93.3
94 INITIISADDR 192.2.10.1
94 INITIISPORT 80
94 INITBROWSERS 1000
94 INITMYWID 9092,9191
//
//Configuration Driver 95
//
95 INITIPADDR 192.168.93.3
95 INITIISADDR 192.2.10.1
95 INITIISPORT 80
95 INITBROWSERS 1000
95 INITMYWID 9192,9291
//
//Configuration Driver 96
```

```
//
96 INITIPADDR 192.168.93.3
96 INITIISADDR 192.2.10.1
96 INITIISPORT 80
96 INITBROWSERS 1000
96 INITMYWID 9292,9391
//
//Configuration Driver 97
//
97 INITIPADDR 192.168.93.3
97 INITIISADDR 192.2.10.1
97 INITIISPORT 80
97 INITBROWSERS 1000
97 INITMYWID 9392,9491
//
//Configuration Driver 98
//
98 INITIPADDR 192.168.93.3
98 INITIISADDR 192.2.10.1
98 INITIISPORT 80
98 INITBROWSERS 1000
98 INITMYWID 9492,9591
//
//Configuration Driver 99
//
99 INITIPADDR 192.168.93.3
99 INITIISADDR 192.2.10.1
99 INITIISPORT 80
99 INITBROWSERS 1000
99 INITMYWID 9592,9691
//
//Configuration Driver 100
//
100 INITIPADDR 192.168.93.3
100 INITIISADDR 192.2.10.1
100 INITIISPORT 80
100 INITBROWSERS 1000
100 INITMYWID 9692,9791
//
//Configuration Driver 101
//
101 INITIPADDR 192.168.93.3
101 INITIISADDR 192.2.10.1
101 INITIISPORT 80
101 INITBROWSERS 1000
101 INITMYWID 9792,9891
//
//Configuration Driver 102
//
102 INITIPADDR 192.168.93.3
102 INITIISADDR 192.2.10.1
102 INITIISPORT 80
102 INITBROWSERS 1000
102 INITMYWID 9892,9991
//
//Configuration Driver 103
//
103 INITIPADDR 192.168.93.3
103 INITIISADDR 192.2.10.1
```

```
103 INITIISPORT 80
103 INITBROWSERS 1000
103 INITMYWID 9992,10091
//
//Configuration Driver 104
//
104 INITIPADDR 192.168.93.3
104 INITIISADDR 192.2.10.1
104 INITIISPORT 80
104 INITBROWSERS 1000
104 INITMYWID 10092,10191
//
//Configuration Driver 105
//
105 INITIPADDR 192.168.93.3
105 INITIISADDR 192.2.10.1
105 INITIISPORT 80
105 INITBROWSERS 1010
105 INITMYWID 10192,10292
//
//Configuration Driver 106
//
106 INITIPADDR 192.168.93.4
106 INITIISADDR 192.2.10.1
106 INITIISPORT 80
106 INITBROWSERS 1000
106 INITMYWID 10293,10392
//
//Configuration Driver 107
//
107 INITIPADDR 192.168.93.4
107 INITIISADDR 192.2.10.1
107 INITIISPORT 80
107 INITBROWSERS 1000
107 INITMYWID 10393,10492
//
//Configuration Driver 108
//
108 INITIPADDR 192.168.93.4
108 INITIISADDR 192.2.10.1
108 INITIISPORT 80
108 INITBROWSERS 1000
108 INITMYWID 10493,10592
//
//Configuration Driver 109
//
109 INITIPADDR 192.168.93.4
109 INITIISADDR 192.2.10.1
109 INITIISPORT 80
109 INITBROWSERS 1000
109 INITMYWID 10593,10692
//
//Configuration Driver 110
//
110 INITIPADDR 192.168.93.4
110 INITIISADDR 192.2.10.1
110 INITIISPORT 80
110 INITBROWSERS 1000
110 INITMYWID 10693,10792
```

```

//
//Configuration Driver 111
//
111 INITIPADDR 192.168.93.4
111 INITIISADDR 192.2.10.1
111 INITIISPORT 80
111 INITBROWSERS 1000
111 INITMYWID 10793,10892
//
//Configuration Driver 112
//
112 INITIPADDR 192.168.93.4
112 INITIISADDR 192.2.10.1
112 INITIISPORT 80
112 INITBROWSERS 1000
112 INITMYWID 10893,10992
//
//Configuration Driver 113
//
113 INITIPADDR 192.168.93.4
113 INITIISADDR 192.2.10.1
113 INITIISPORT 80
113 INITBROWSERS 1000
113 INITMYWID 10993,11092
//
//Configuration Driver 114
//
114 INITIPADDR 192.168.93.4
114 INITIISADDR 192.2.10.1
114 INITIISPORT 80
114 INITBROWSERS 1000
114 INITMYWID 11093,11192
//
//Configuration Driver 115
//
115 INITIPADDR 192.168.93.4
115 INITIISADDR 192.2.10.1
115 INITIISPORT 80
115 INITBROWSERS 1000
115 INITMYWID 11193,11292
//
//Configuration Driver 116
//
116 INITIPADDR 192.168.93.4
116 INITIISADDR 192.2.10.1
116 INITIISPORT 80
116 INITBROWSERS 1000
116 INITMYWID 11293,11392
//
//Configuration Driver 117
//
117 INITIPADDR 192.168.93.4
117 INITIISADDR 192.2.10.1
117 INITIISPORT 80
117 INITBROWSERS 1000
117 INITMYWID 11393,11492
//
//Configuration Driver 118
//

```

```

118 INITIPADDR 192.168.93.4
118 INITIISADDR 192.2.10.1
118 INITIISPORT 80
118 INITBROWSERS 1000
118 INITMYWID 11493,11592
//
//Configuration Driver 119
//
119 INITIPADDR 192.168.93.4
119 INITIISADDR 192.2.10.1
119 INITIISPORT 80
119 INITBROWSERS 1000
119 INITMYWID 11593,11692
//
//Configuration Driver 120
//
120 INITIPADDR 192.168.93.4
120 INITIISADDR 192.2.10.1
120 INITIISPORT 80
120 INITBROWSERS 1000
120 INITMYWID 11693,11792
//
//Configuration Driver 121
//
121 INITIPADDR 192.168.93.4
121 INITIISADDR 192.2.10.1
121 INITIISPORT 80
121 INITBROWSERS 1000
121 INITMYWID 11793,11892
//
//Configuration Driver 122
//
122 INITIPADDR 192.168.93.4
122 INITIISADDR 192.2.10.1
122 INITIISPORT 80
122 INITBROWSERS 1000
122 INITMYWID 11893,11992
//
//Configuration Driver 123
//
123 INITIPADDR 192.168.93.4
123 INITIISADDR 192.2.10.1
123 INITIISPORT 80
123 INITBROWSERS 1000
123 INITMYWID 11993,12092
//
//Configuration Driver 124
//
124 INITIPADDR 192.168.93.4
124 INITIISADDR 192.2.10.1
124 INITIISPORT 80
124 INITBROWSERS 1000
124 INITMYWID 12093,12192
//
//Configuration Driver 125
//
125 INITIPADDR 192.168.93.4
125 INITIISADDR 192.2.10.1
125 INITIISPORT 80

```

```

125 INITBROWSERS 1000
125 INITMYWID 12193,12292
//
//Configuration Driver 126
//
126 INITIPADDR 192.168.93.4
126 INITIISADDR 192.2.10.1
126 INITIISPORT 80
126 INITBROWSERS 1010
126 INITMYWID 12293,12393
//
//Configuration Driver 127
//
127 INITIPADDR 192.168.93.4
127 INITIISADDR 192.2.10.1
127 INITIISPORT 80
127 INITBROWSERS 1000
127 INITMYWID 12394,12493
//
//Configuration Driver 128
//
128 INITIPADDR 192.168.93.4
128 INITIISADDR 192.2.10.1
128 INITIISPORT 80
128 INITBROWSERS 1000
128 INITMYWID 12494,12593
//
//Configuration Driver 129
//
129 INITIPADDR 192.168.93.4
129 INITIISADDR 192.2.10.1
129 INITIISPORT 80
129 INITBROWSERS 1000
129 INITMYWID 12594,12693
//
//Configuration Driver 130
//
130 INITIPADDR 192.168.93.4
130 INITIISADDR 192.2.10.1
130 INITIISPORT 80
130 INITBROWSERS 1000
130 INITMYWID 12694,12793
//
//Configuration Driver 131
//
131 INITIPADDR 192.168.93.4
131 INITIISADDR 192.2.10.1
131 INITIISPORT 80
131 INITBROWSERS 1000
131 INITMYWID 12794,12893
//
//Configuration Driver 132
//
132 INITIPADDR 192.168.93.4
132 INITIISADDR 192.2.10.1
132 INITIISPORT 80
132 INITBROWSERS 1000
132 INITMYWID 12894,12993
//

```

```

//Configuration Driver 133
//
133 INITIPADDR 192.168.93.4
133 INITIISADDR 192.2.10.1
133 INITIISPORT 80
133 INITBROWSERS 1000
133 INITMYWID 12994,13093
//
//Configuration Driver 134
//
134 INITIPADDR 192.168.93.4
134 INITIISADDR 192.2.10.1
134 INITIISPORT 80
134 INITBROWSERS 1000
134 INITMYWID 13094,13193
//
//Configuration Driver 135
//
135 INITIPADDR 192.168.93.4
135 INITIISADDR 192.2.10.1
135 INITIISPORT 80
135 INITBROWSERS 1000
135 INITMYWID 13194,13293
//
//Configuration Driver 136
//
136 INITIPADDR 192.168.93.4
136 INITIISADDR 192.2.10.1
136 INITIISPORT 80
136 INITBROWSERS 1000
136 INITMYWID 13294,13393
//
//Configuration Driver 137
//
137 INITIPADDR 192.168.93.4
137 INITIISADDR 192.2.10.1
137 INITIISPORT 80
137 INITBROWSERS 1000
137 INITMYWID 13394,13493
//
//Configuration Driver 138
//
138 INITIPADDR 192.168.93.4
138 INITIISADDR 192.2.10.1
138 INITIISPORT 80
138 INITBROWSERS 1000
138 INITMYWID 13494,13593
//
//Configuration Driver 139
//
139 INITIPADDR 192.168.93.4
139 INITIISADDR 192.2.10.1
139 INITIISPORT 80
139 INITBROWSERS 1000
139 INITMYWID 13594,13693
//
//Configuration Driver 140
//
140 INITIPADDR 192.168.93.4

```

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140 INITIISADDR 192.2.10.1
140 INITIISPORT 80
140 INITBROWSERS 1000
140 INITMYWID 13694,13793
//
//Configuration Driver 141
//
141 INITIPADDR 192.168.93.5
141 INITIISADDR 192.3.10.1
141 INITIISPORT 80
141 INITBROWSERS 1000
141 INITMYWID 13794,13893
//
//Configuration Driver 142
//
142 INITIPADDR 192.168.93.5
142 INITIISADDR 192.3.10.1
142 INITIISPORT 80
142 INITBROWSERS 1000
142 INITMYWID 13894,13993
//
//Configuration Driver 143
//
143 INITIPADDR 192.168.93.5
143 INITIISADDR 192.3.10.1
143 INITIISPORT 80
143 INITBROWSERS 1000
143 INITMYWID 13994,14093
//
//Configuration Driver 144
//
144 INITIPADDR 192.168.93.5
144 INITIISADDR 192.3.10.1
144 INITIISPORT 80
144 INITBROWSERS 1000
144 INITMYWID 14094,14193
//
//Configuration Driver 145
//
145 INITIPADDR 192.168.93.5
145 INITIISADDR 192.3.10.1
145 INITIISPORT 80
145 INITBROWSERS 1000
145 INITMYWID 14194,14293
//
//Configuration Driver 146
//
146 INITIPADDR 192.168.93.5
146 INITIISADDR 192.3.10.1
146 INITIISPORT 80
146 INITBROWSERS 1000
146 INITMYWID 14294,14393
//
//Configuration Driver 147
//
147 INITIPADDR 192.168.93.5
147 INITIISADDR 192.3.10.1
147 INITIISPORT 80
147 INITBROWSERS 1010

```

```

147 INITMYWID 14394,14494
//
//Configuration Driver 148
//
148 INITIPADDR 192.168.93.5
148 INITIISADDR 192.3.10.1
148 INITIISPORT 80
148 INITBROWSERS 1000
148 INITMYWID 14495,14594
//
//Configuration Driver 149
//
149 INITIPADDR 192.168.93.5
149 INITIISADDR 192.3.10.1
149 INITIISPORT 80
149 INITBROWSERS 1000
149 INITMYWID 14595,14694
//
//Configuration Driver 150
//
150 INITIPADDR 192.168.93.5
150 INITIISADDR 192.3.10.1
150 INITIISPORT 80
150 INITBROWSERS 1000
150 INITMYWID 14695,14794
//
//Configuration Driver 151
//
151 INITIPADDR 192.168.93.5
151 INITIISADDR 192.3.10.1
151 INITIISPORT 80
151 INITBROWSERS 1000
151 INITMYWID 14795,14894
//
//Configuration Driver 152
//
152 INITIPADDR 192.168.93.5
152 INITIISADDR 192.3.10.1
152 INITIISPORT 80
152 INITBROWSERS 1000
152 INITMYWID 14895,14994
//
//Configuration Driver 153
//
153 INITIPADDR 192.168.93.5
153 INITIISADDR 192.3.10.1
153 INITIISPORT 80
153 INITBROWSERS 1000
153 INITMYWID 14995,15094
//
//Configuration Driver 154
//
154 INITIPADDR 192.168.93.5
154 INITIISADDR 192.3.10.1
154 INITIISPORT 80
154 INITBROWSERS 1000
154 INITMYWID 15095,15194
//
//Configuration Driver 155

```

```
//
155 INITIPADDR 192.168.93.5
155 INITIISADDR 192.3.10.1
155 INITIISPORT 80
155 INITBROWSERS 1000
155 INITMYWID 15195,15294
//
//Configuration Driver 156
//
156 INITIPADDR 192.168.93.5
156 INITIISADDR 192.3.10.1
156 INITIISPORT 80
156 INITBROWSERS 1000
156 INITMYWID 15295,15394
//
//Configuration Driver 157
//
157 INITIPADDR 192.168.93.5
157 INITIISADDR 192.3.10.1
157 INITIISPORT 80
157 INITBROWSERS 1000
157 INITMYWID 15395,15494
//
//Configuration Driver 158
//
158 INITIPADDR 192.168.93.5
158 INITIISADDR 192.3.10.1
158 INITIISPORT 80
158 INITBROWSERS 1000
158 INITMYWID 15495,15594
//
//Configuration Driver 159
//
159 INITIPADDR 192.168.93.5
159 INITIISADDR 192.3.10.1
159 INITIISPORT 80
159 INITBROWSERS 1000
159 INITMYWID 15595,15694
//
//Configuration Driver 160
//
160 INITIPADDR 192.168.93.5
160 INITIISADDR 192.3.10.1
160 INITIISPORT 80
160 INITBROWSERS 1000
160 INITMYWID 15695,15794
//
//Configuration Driver 161
//
161 INITIPADDR 192.168.93.5
161 INITIISADDR 192.3.10.1
161 INITIISPORT 80
161 INITBROWSERS 1000
161 INITMYWID 15795,15894
//
//Configuration Driver 162
//
162 INITIPADDR 192.168.93.5
162 INITIISADDR 192.3.10.1
```

```
162 INITIISPORT 80
162 INITBROWSERS 1000
162 INITMYWID 15895,15994
//
//Configuration Driver 163
//
163 INITIPADDR 192.168.93.5
163 INITIISADDR 192.3.10.1
163 INITIISPORT 80
163 INITBROWSERS 1000
163 INITMYWID 15995,16094
//
//Configuration Driver 164
//
164 INITIPADDR 192.168.93.5
164 INITIISADDR 192.3.10.1
164 INITIISPORT 80
164 INITBROWSERS 1000
164 INITMYWID 16095,16194
//
//Configuration Driver 165
//
165 INITIPADDR 192.168.93.5
165 INITIISADDR 192.3.10.1
165 INITIISPORT 80
165 INITBROWSERS 1000
165 INITMYWID 16195,16294
//
//Configuration Driver 166
//
166 INITIPADDR 192.168.93.5
166 INITIISADDR 192.3.10.1
166 INITIISPORT 80
166 INITBROWSERS 1000
166 INITMYWID 16295,16394
//
//Configuration Driver 167
//
167 INITIPADDR 192.168.93.5
167 INITIISADDR 192.3.10.1
167 INITIISPORT 80
167 INITBROWSERS 1000
167 INITMYWID 16395,16494
//
//Configuration Driver 168
//
168 INITIPADDR 192.168.93.5
168 INITIISADDR 192.3.10.1
168 INITIISPORT 80
168 INITBROWSERS 1010
168 INITMYWID 16495,16595
//
//Configuration Driver 169
//
169 INITIPADDR 192.168.93.5
169 INITIISADDR 192.3.10.1
169 INITIISPORT 80
169 INITBROWSERS 1000
169 INITMYWID 16596,16695
```



```

//
//Configuration Driver 170
//
170 INITIPADDR 192.168.93.5
170 INITIISADDR 192.3.10.1
170 INITIISPORT 80
170 INITBROWSERS 1000
170 INITMYWID 16696,16795
//
//Configuration Driver 171
//
171 INITIPADDR 192.168.93.5
171 INITIISADDR 192.3.10.1
171 INITIISPORT 80
171 INITBROWSERS 1000
171 INITMYWID 16796,16895
//
//Configuration Driver 172
//
172 INITIPADDR 192.168.93.5
172 INITIISADDR 192.3.10.1
172 INITIISPORT 80
172 INITBROWSERS 1000
172 INITMYWID 16896,16995
//
//Configuration Driver 173
//
173 INITIPADDR 192.168.93.5
173 INITIISADDR 192.3.10.1
173 INITIISPORT 80
173 INITBROWSERS 1000
173 INITMYWID 16996,17095
//
//Configuration Driver 174
//
174 INITIPADDR 192.168.93.5
174 INITIISADDR 192.3.10.1
174 INITIISPORT 80
174 INITBROWSERS 1000
174 INITMYWID 17096,17195
//
//Configuration Driver 175
//
175 INITIPADDR 192.168.93.5
175 INITIISADDR 192.3.10.1
175 INITIISPORT 80
175 INITBROWSERS 1000
175 INITMYWID 17196,17295
//
//Configuration Driver 176
//
176 INITIPADDR 192.168.93.6
176 INITIISADDR 192.3.10.1
176 INITIISPORT 80
176 INITBROWSERS 1000
176 INITMYWID 17296,17395
//
//Configuration Driver 177
//

```

```

177 INITIPADDR 192.168.93.6
177 INITIISADDR 192.3.10.1
177 INITIISPORT 80
177 INITBROWSERS 1000
177 INITMYWID 17396,17495
//
//Configuration Driver 178
//
178 INITIPADDR 192.168.93.6
178 INITIISADDR 192.3.10.1
178 INITIISPORT 80
178 INITBROWSERS 1000
178 INITMYWID 17496,17595
//
//Configuration Driver 179
//
179 INITIPADDR 192.168.93.6
179 INITIISADDR 192.3.10.1
179 INITIISPORT 80
179 INITBROWSERS 1000
179 INITMYWID 17596,17695
//
//Configuration Driver 180
//
180 INITIPADDR 192.168.93.6
180 INITIISADDR 192.3.10.1
180 INITIISPORT 80
180 INITBROWSERS 1000
180 INITMYWID 17696,17795
//
//Configuration Driver 181
//
181 INITIPADDR 192.168.93.6
181 INITIISADDR 192.3.10.1
181 INITIISPORT 80
181 INITBROWSERS 1000
181 INITMYWID 17796,17895
//
//Configuration Driver 182
//
182 INITIPADDR 192.168.93.6
182 INITIISADDR 192.3.10.1
182 INITIISPORT 80
182 INITBROWSERS 1000
182 INITMYWID 17896,17995
//
//Configuration Driver 183
//
183 INITIPADDR 192.168.93.6
183 INITIISADDR 192.3.10.1
183 INITIISPORT 80
183 INITBROWSERS 1000
183 INITMYWID 17996,18095
//
//Configuration Driver 184
//
184 INITIPADDR 192.168.93.6
184 INITIISADDR 192.3.10.1
184 INITIISPORT 80

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```

184 INITBROWSERS 1000
184 INITMYWID 18096,18195
//
//Configuration Driver 185
//
185 INITIPADDR 192.168.93.6
185 INITIISADDR 192.3.10.1
185 INITIISPORT 80
185 INITBROWSERS 1000
185 INITMYWID 18196,18295
//
//Configuration Driver 186
//
186 INITIPADDR 192.168.93.6
186 INITIISADDR 192.3.10.1
186 INITIISPORT 80
186 INITBROWSERS 1000
186 INITMYWID 18296,18395
//
//Configuration Driver 187
//
187 INITIPADDR 192.168.93.6
187 INITIISADDR 192.3.10.1
187 INITIISPORT 80
187 INITBROWSERS 1000
187 INITMYWID 18396,18495
//
//Configuration Driver 188
//
188 INITIPADDR 192.168.93.6
188 INITIISADDR 192.3.10.1
188 INITIISPORT 80
188 INITBROWSERS 1000
188 INITMYWID 18496,18595
//
//Configuration Driver 189
//
189 INITIPADDR 192.168.93.6
189 INITIISADDR 192.3.10.1
189 INITIISPORT 80
189 INITBROWSERS 1010
189 INITMYWID 18596,18696
//
//Configuration Driver 190
//
190 INITIPADDR 192.168.93.6
190 INITIISADDR 192.3.10.1
190 INITIISPORT 80
190 INITBROWSERS 1000
190 INITMYWID 18697,18796
//
//Configuration Driver 191
//
191 INITIPADDR 192.168.93.6
191 INITIISADDR 192.3.10.1
191 INITIISPORT 80
191 INITBROWSERS 1000
191 INITMYWID 18797,18896
//

```

```

//Configuration Driver 192
//
192 INITIPADDR 192.168.93.6
192 INITIISADDR 192.3.10.1
192 INITIISPORT 80
192 INITBROWSERS 1000
192 INITMYWID 18897,18996
//
//Configuration Driver 193
//
193 INITIPADDR 192.168.93.6
193 INITIISADDR 192.3.10.1
193 INITIISPORT 80
193 INITBROWSERS 1000
193 INITMYWID 18997,19096
//
//Configuration Driver 194
//
194 INITIPADDR 192.168.93.6
194 INITIISADDR 192.3.10.1
194 INITIISPORT 80
194 INITBROWSERS 1000
194 INITMYWID 19097,19196
//
//Configuration Driver 195
//
195 INITIPADDR 192.168.93.6
195 INITIISADDR 192.3.10.1
195 INITIISPORT 80
195 INITBROWSERS 1000
195 INITMYWID 19197,19296
//
//Configuration Driver 196
//
196 INITIPADDR 192.168.93.6
196 INITIISADDR 192.3.10.1
196 INITIISPORT 80
196 INITBROWSERS 1000
196 INITMYWID 19297,19396
//
//Configuration Driver 197
//
197 INITIPADDR 192.168.93.6
197 INITIISADDR 192.3.10.1
197 INITIISPORT 80
197 INITBROWSERS 1000
197 INITMYWID 19397,19496
//
//Configuration Driver 198
//
198 INITIPADDR 192.168.93.6
198 INITIISADDR 192.3.10.1
198 INITIISPORT 80
198 INITBROWSERS 1000
198 INITMYWID 19497,19596
//
//Configuration Driver 199
//
199 INITIPADDR 192.168.93.6

```

```

199 INITIISADDR 192.3.10.1
199 INITIISPORT 80
199 INITBROWSERS 1000
199 INITMYWID 19597,19696
//
//Configuration Driver 200
//
200 INITIPADDR 192.168.93.6
200 INITIISADDR 192.3.10.1
200 INITIISPORT 80
200 INITBROWSERS 1000
200 INITMYWID 19697,19796
//
//Configuration Driver 201
//
201 INITIPADDR 192.168.93.6
201 INITIISADDR 192.3.10.1
201 INITIISPORT 80
201 INITBROWSERS 1000
201 INITMYWID 19797,19896
//
//Configuration Driver 202
//
202 INITIPADDR 192.168.93.6
202 INITIISADDR 192.3.10.1
202 INITIISPORT 80
202 INITBROWSERS 1000
202 INITMYWID 19897,19996
//
//Configuration Driver 203
//
203 INITIPADDR 192.168.93.6
203 INITIISADDR 192.3.10.1
203 INITIISPORT 80
203 INITBROWSERS 1000
203 INITMYWID 19997,20096
//
//Configuration Driver 204
//
204 INITIPADDR 192.168.93.6
204 INITIISADDR 192.3.10.1
204 INITIISPORT 80
204 INITBROWSERS 1000
204 INITMYWID 20097,20196
//
//Configuration Driver 205
//
205 INITIPADDR 192.168.93.6
205 INITIISADDR 192.3.10.1
205 INITIISPORT 80
205 INITBROWSERS 1000
205 INITMYWID 20197,20296
//
//Configuration Driver 206
//
206 INITIPADDR 192.168.93.6
206 INITIISADDR 192.3.10.1
206 INITIISPORT 80
206 INITBROWSERS 1000

```

```

206 INITMYWID 20297,20396
//
//Configuration Driver 207
//
207 INITIPADDR 192.168.93.6
207 INITIISADDR 192.3.10.1
207 INITIISPORT 80
207 INITBROWSERS 1000
207 INITMYWID 20397,20496
//
//Configuration Driver 208
//
208 INITIPADDR 192.168.93.6
208 INITIISADDR 192.3.10.1
208 INITIISPORT 80
208 INITBROWSERS 1000
208 INITMYWID 20497,20596
//
//Configuration Driver 209
//
209 INITIPADDR 192.168.93.6
209 INITIISADDR 192.3.10.1
209 INITIISPORT 80
209 INITBROWSERS 1000
209 INITMYWID 20597,20696
//
//Configuration Driver 210
//
210 INITIPADDR 192.168.93.6
210 INITIISADDR 192.3.10.1
210 INITIISPORT 80
210 INITBROWSERS 1010
210 INITMYWID 20697,20797
//
//Configuration Driver 211
//
211 INITIPADDR 192.168.93.7
211 INITIISADDR 192.4.10.1
211 INITIISPORT 80
211 INITBROWSERS 1000
211 INITMYWID 20798,20897
//
//Configuration Driver 212
//
212 INITIPADDR 192.168.93.7
212 INITIISADDR 192.4.10.1
212 INITIISPORT 80
212 INITBROWSERS 1000
212 INITMYWID 20898,20997
//
//Configuration Driver 213
//
213 INITIPADDR 192.168.93.7
213 INITIISADDR 192.4.10.1
213 INITIISPORT 80
213 INITBROWSERS 1000
213 INITMYWID 20998,21097
//
//Configuration Driver 214

```

```

//
214 INITIPADDR 192.168.93.7
214 INITIISADDR 192.4.10.1
214 INITIISPORT 80
214 INITBROWSERS 1000
214 INITMYWID 21098,21197
//
//Configuration Driver 215
//
215 INITIPADDR 192.168.93.7
215 INITIISADDR 192.4.10.1
215 INITIISPORT 80
215 INITBROWSERS 1000
215 INITMYWID 21198,21297
//
//Configuration Driver 216
//
216 INITIPADDR 192.168.93.7
216 INITIISADDR 192.4.10.1
216 INITIISPORT 80
216 INITBROWSERS 1000
216 INITMYWID 21298,21397
//
//Configuration Driver 217
//
217 INITIPADDR 192.168.93.7
217 INITIISADDR 192.4.10.1
217 INITIISPORT 80
217 INITBROWSERS 1000
217 INITMYWID 21398,21497
//
//Configuration Driver 218
//
218 INITIPADDR 192.168.93.7
218 INITIISADDR 192.4.10.1
218 INITIISPORT 80
218 INITBROWSERS 1000
218 INITMYWID 21498,21597
//
//Configuration Driver 219
//
219 INITIPADDR 192.168.93.7
219 INITIISADDR 192.4.10.1
219 INITIISPORT 80
219 INITBROWSERS 1000
219 INITMYWID 21598,21697
//
//Configuration Driver 220
//
220 INITIPADDR 192.168.93.7
220 INITIISADDR 192.4.10.1
220 INITIISPORT 80
220 INITBROWSERS 1000
220 INITMYWID 21698,21797
//
//Configuration Driver 221
//
221 INITIPADDR 192.168.93.7
221 INITIISADDR 192.4.10.1

```

```

221 INITIISPORT 80
221 INITBROWSERS 1000
221 INITMYWID 21798,21897
//
//Configuration Driver 222
//
222 INITIPADDR 192.168.93.7
222 INITIISADDR 192.4.10.1
222 INITIISPORT 80
222 INITBROWSERS 1000
222 INITMYWID 21898,21997
//
//Configuration Driver 223
//
223 INITIPADDR 192.168.93.7
223 INITIISADDR 192.4.10.1
223 INITIISPORT 80
223 INITBROWSERS 1000
223 INITMYWID 21998,22097
//
//Configuration Driver 224
//
224 INITIPADDR 192.168.93.7
224 INITIISADDR 192.4.10.1
224 INITIISPORT 80
224 INITBROWSERS 1000
224 INITMYWID 22098,22197
//
//Configuration Driver 225
//
225 INITIPADDR 192.168.93.7
225 INITIISADDR 192.4.10.1
225 INITIISPORT 80
225 INITBROWSERS 1000
225 INITMYWID 22198,22297
//
//Configuration Driver 226
//
226 INITIPADDR 192.168.93.7
226 INITIISADDR 192.4.10.1
226 INITIISPORT 80
226 INITBROWSERS 1000
226 INITMYWID 22298,22397
//
//Configuration Driver 227
//
227 INITIPADDR 192.168.93.7
227 INITIISADDR 192.4.10.1
227 INITIISPORT 80
227 INITBROWSERS 1000
227 INITMYWID 22398,22497
//
//Configuration Driver 228
//
228 INITIPADDR 192.168.93.7
228 INITIISADDR 192.4.10.1
228 INITIISPORT 80
228 INITBROWSERS 1000
228 INITMYWID 22498,22597

```

```

//
//Configuration Driver 229
//
229 INITIPADDR 192.168.93.7
229 INITIISADDR 192.4.10.1
229 INITIISPORT 80
229 INITBROWSERS 1000
229 INITMYWID 22598,22697
//
//Configuration Driver 230
//
230 INITIPADDR 192.168.93.7
230 INITIISADDR 192.4.10.1
230 INITIISPORT 80
230 INITBROWSERS 1000
230 INITMYWID 22698,22797
//
//Configuration Driver 231
//
231 INITIPADDR 192.168.93.7
231 INITIISADDR 192.4.10.1
231 INITIISPORT 80
231 INITBROWSERS 1010
231 INITMYWID 22798,22898
//
//Configuration Driver 232
//
232 INITIPADDR 192.168.93.7
232 INITIISADDR 192.4.10.1
232 INITIISPORT 80
232 INITBROWSERS 1000
232 INITMYWID 22899,22998
//
//Configuration Driver 233
//
233 INITIPADDR 192.168.93.7
233 INITIISADDR 192.4.10.1
233 INITIISPORT 80
233 INITBROWSERS 1000
233 INITMYWID 22999,23098
//
//Configuration Driver 234
//
234 INITIPADDR 192.168.93.7
234 INITIISADDR 192.4.10.1
234 INITIISPORT 80
234 INITBROWSERS 1000
234 INITMYWID 23099,23198
//
//Configuration Driver 235
//
235 INITIPADDR 192.168.93.7
235 INITIISADDR 192.4.10.1
235 INITIISPORT 80
235 INITBROWSERS 1000
235 INITMYWID 23199,23298
//
//Configuration Driver 236
//

```

```

236 INITIPADDR 192.168.93.7
236 INITIISADDR 192.4.10.1
236 INITIISPORT 80
236 INITBROWSERS 1000
236 INITMYWID 23299,23398
//
//Configuration Driver 237
//
237 INITIPADDR 192.168.93.7
237 INITIISADDR 192.4.10.1
237 INITIISPORT 80
237 INITBROWSERS 1000
237 INITMYWID 23399,23498
//
//Configuration Driver 238
//
238 INITIPADDR 192.168.93.7
238 INITIISADDR 192.4.10.1
238 INITIISPORT 80
238 INITBROWSERS 1000
238 INITMYWID 23499,23598
//
//Configuration Driver 239
//
239 INITIPADDR 192.168.93.7
239 INITIISADDR 192.4.10.1
239 INITIISPORT 80
239 INITBROWSERS 1000
239 INITMYWID 23599,23698
//
//Configuration Driver 240
//
240 INITIPADDR 192.168.93.7
240 INITIISADDR 192.4.10.1
240 INITIISPORT 80
240 INITBROWSERS 1000
240 INITMYWID 23699,23798
//
//Configuration Driver 241
//
241 INITIPADDR 192.168.93.7
241 INITIISADDR 192.4.10.1
241 INITIISPORT 80
241 INITBROWSERS 1000
241 INITMYWID 23799,23898
//
//Configuration Driver 242
//
242 INITIPADDR 192.168.93.7
242 INITIISADDR 192.4.10.1
242 INITIISPORT 80
242 INITBROWSERS 1000
242 INITMYWID 23899,23998
//
//Configuration Driver 243
//
243 INITIPADDR 192.168.93.7
243 INITIISADDR 192.4.10.1
243 INITIISPORT 80

```

```

243 INITBROWSERS 1000
243 INITMYWID 23999,24098
//
//Configuration Driver 244
//
244 INITIPADDR 192.168.93.7
244 INITIISADDR 192.4.10.1
244 INITIISPORT 80
244 INITBROWSERS 1000
244 INITMYWID 24099,24198
//
//Configuration Driver 245
//
245 INITIPADDR 192.168.93.7
245 INITIISADDR 192.4.10.1
245 INITIISPORT 80
245 INITBROWSERS 1000
245 INITMYWID 24199,24298
//
//Configuration Driver 246
//
246 INITIPADDR 192.168.93.8
246 INITIISADDR 192.4.10.1
246 INITIISPORT 80
246 INITBROWSERS 1000
246 INITMYWID 24299,24398
//
//Configuration Driver 247
//
247 INITIPADDR 192.168.93.8
247 INITIISADDR 192.4.10.1
247 INITIISPORT 80
247 INITBROWSERS 1000
247 INITMYWID 24399,24498
//
//Configuration Driver 248
//
248 INITIPADDR 192.168.93.8
248 INITIISADDR 192.4.10.1
248 INITIISPORT 80
248 INITBROWSERS 1000
248 INITMYWID 24499,24598
//
//Configuration Driver 249
//
249 INITIPADDR 192.168.93.8
249 INITIISADDR 192.4.10.1
249 INITIISPORT 80
249 INITBROWSERS 1000
249 INITMYWID 24599,24698
//
//Configuration Driver 250
//
250 INITIPADDR 192.168.93.8
250 INITIISADDR 192.4.10.1
250 INITIISPORT 80
250 INITBROWSERS 1000
250 INITMYWID 24699,24798
//

```

```

//Configuration Driver 251
//
251 INITIPADDR 192.168.93.8
251 INITIISADDR 192.4.10.1
251 INITIISPORT 80
251 INITBROWSERS 1000
251 INITMYWID 24799,24898
//
//Configuration Driver 252
//
252 INITIPADDR 192.168.93.8
252 INITIISADDR 192.4.10.1
252 INITIISPORT 80
252 INITBROWSERS 1010
252 INITMYWID 24899,24999
//
//Configuration Driver 253
//
253 INITIPADDR 192.168.93.8
253 INITIISADDR 192.4.10.1
253 INITIISPORT 80
253 INITBROWSERS 1000
253 INITMYWID 25000,25099
//
//Configuration Driver 254
//
254 INITIPADDR 192.168.93.8
254 INITIISADDR 192.4.10.1
254 INITIISPORT 80
254 INITBROWSERS 1000
254 INITMYWID 25100,25199
//
//Configuration Driver 255
//
255 INITIPADDR 192.168.93.8
255 INITIISADDR 192.4.10.1
255 INITIISPORT 80
255 INITBROWSERS 1000
255 INITMYWID 25200,25299
//
//Configuration Driver 256
//
256 INITIPADDR 192.168.93.8
256 INITIISADDR 192.4.10.1
256 INITIISPORT 80
256 INITBROWSERS 1000
256 INITMYWID 25300,25399
//
//Configuration Driver 257
//
257 INITIPADDR 192.168.93.8
257 INITIISADDR 192.4.10.1
257 INITIISPORT 80
257 INITBROWSERS 1000
257 INITMYWID 25400,25499
//
//Configuration Driver 258
//
258 INITIPADDR 192.168.93.8

```

```
258 INITIISADDR 192.4.10.1
258 INITIISPORT 80
258 INITBROWSERS 1000
258 INITMYWID 25500,25599
//
//Configuration Driver 259
//
259 INITIPADDR 192.168.93.8
259 INITIISADDR 192.4.10.1
259 INITIISPORT 80
259 INITBROWSERS 1000
259 INITMYWID 25600,25699
//
//Configuration Driver 260
//
260 INITIPADDR 192.168.93.8
260 INITIISADDR 192.4.10.1
260 INITIISPORT 80
260 INITBROWSERS 1000
260 INITMYWID 25700,25799
//
//Configuration Driver 261
//
261 INITIPADDR 192.168.93.8
261 INITIISADDR 192.4.10.1
261 INITIISPORT 80
261 INITBROWSERS 1000
261 INITMYWID 25800,25899
//
//Configuration Driver 262
//
262 INITIPADDR 192.168.93.8
262 INITIISADDR 192.4.10.1
262 INITIISPORT 80
262 INITBROWSERS 1000
262 INITMYWID 25900,25999
//
//Configuration Driver 263
//
263 INITIPADDR 192.168.93.8
263 INITIISADDR 192.4.10.1
263 INITIISPORT 80
263 INITBROWSERS 1000
263 INITMYWID 26000,26099
//
//Configuration Driver 264
//
264 INITIPADDR 192.168.93.8
264 INITIISADDR 192.4.10.1
264 INITIISPORT 80
264 INITBROWSERS 1000
264 INITMYWID 26100,26199
//
//Configuration Driver 265
//
265 INITIPADDR 192.168.93.8
265 INITIISADDR 192.4.10.1
265 INITIISPORT 80
265 INITBROWSERS 1000
```

```
265 INITMYWID 26200,26299
//
//Configuration Driver 266
//
266 INITIPADDR 192.168.93.8
266 INITIISADDR 192.4.10.1
266 INITIISPORT 80
266 INITBROWSERS 1000
266 INITMYWID 26300,26399
//
//Configuration Driver 267
//
267 INITIPADDR 192.168.93.8
267 INITIISADDR 192.4.10.1
267 INITIISPORT 80
267 INITBROWSERS 1000
267 INITMYWID 26400,26499
//
//Configuration Driver 268
//
268 INITIPADDR 192.168.93.8
268 INITIISADDR 192.4.10.1
268 INITIISPORT 80
268 INITBROWSERS 1000
268 INITMYWID 26500,26599
//
//Configuration Driver 269
//
269 INITIPADDR 192.168.93.8
269 INITIISADDR 192.4.10.1
269 INITIISPORT 80
269 INITBROWSERS 1000
269 INITMYWID 26600,26699
//
//Configuration Driver 270
//
270 INITIPADDR 192.168.93.8
270 INITIISADDR 192.4.10.1
270 INITIISPORT 80
270 INITBROWSERS 1000
270 INITMYWID 26700,26799
//
//Configuration Driver 271
//
271 INITIPADDR 192.168.93.8
271 INITIISADDR 192.4.10.1
271 INITIISPORT 80
271 INITBROWSERS 1000
271 INITMYWID 26800,26899
//
//Configuration Driver 272
//
272 INITIPADDR 192.168.93.8
272 INITIISADDR 192.4.10.1
272 INITIISPORT 80
272 INITBROWSERS 1000
272 INITMYWID 26900,26999
//
//Configuration Driver 273
```

```

//
273 INITIPADDR 192.168.93.8
273 INITIISADDR 192.4.10.1
273 INITIISPORT 80
273 INITBROWSERS 1010
273 INITMYWID 27000,27100
//
//Configuration Driver 274
//
274 INITIPADDR 192.168.93.8
274 INITIISADDR 192.4.10.1
274 INITIISPORT 80
274 INITBROWSERS 1000
274 INITMYWID 27101,27200
//
//Configuration Driver 275
//
275 INITIPADDR 192.168.93.8
275 INITIISADDR 192.4.10.1
275 INITIISPORT 80
275 INITBROWSERS 1000
275 INITMYWID 27201,27300
//
//Configuration Driver 276
//
276 INITIPADDR 192.168.93.8
276 INITIISADDR 192.4.10.1
276 INITIISPORT 80
276 INITBROWSERS 1000
276 INITMYWID 27301,27400
//
//Configuration Driver 277
//
277 INITIPADDR 192.168.93.8
277 INITIISADDR 192.4.10.1
277 INITIISPORT 80
277 INITBROWSERS 1000
277 INITMYWID 27401,27500
//
//Configuration Driver 278
//
278 INITIPADDR 192.168.93.8
278 INITIISADDR 192.4.10.1
278 INITIISPORT 80
278 INITBROWSERS 1000
278 INITMYWID 27501,27600
//
//Configuration Driver 279
//
279 INITIPADDR 192.168.93.8
279 INITIISADDR 192.4.10.1
279 INITIISPORT 80
279 INITBROWSERS 1000
279 INITMYWID 27601,27700
//
//Configuration Driver 280
//
280 INITIPADDR 192.168.93.8
280 INITIISADDR 192.4.10.1

```

```

280 INITIISPORT 80
280 INITBROWSERS 1000
280 INITMYWID 27701,27800

```

Driver Environment

Webdriver.cmd

```

if '%1'==' ' goto usage

:paramok

set WEBDRIVERNO=%1
set WEBADMBASEPORT=4300
set WEBDIAGLEVEL=2
set WEBEVENTLOG=1
set WEBEVENTHOST=
set WEBLOGLEVEL=1
set WEBSINGLETRAN=0
set WEBTPCCAUDIT=0
set WEBRTFUDGETM=110
set WEBNEWORDERPROB=4494
set WEBPAYMENTPROB=4303
set WEBORDERSTATUSPROB=401
set WEBDELIVERYPROB=401
set WEBSTOCKLEVELPROB=401
set WEBTTNEWORDER=12030
set WEBTTPAYMENT=12030
set WEBTTDELIVERY=5060
set WEBTTORDERSTATUS=10070
set WEBTTSTOCKLEVEL=5060

webdriver.exe

goto end

:usage
@ECHO You must supply the following parameters:
@ECHO "webdriver.cmd <driver number>"
pause

:end
Exit

```

RTE IP Configuration Information

Rtedif.ver

```
C:\rhost>if 'ipconfig' == '' goto usage
```

```
C:\rhost>c:
```

```
C:\rhost>cd \webdriver
```

```
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : SQLRTE1
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-8C-9B-80
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.1
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.3.9
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
#2
Physical Address. . . . . : 00-06-5B-8C-9B-81
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.1.10.11
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.9.1.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

```
C:\webdriver>goto end
```

```
C:\rhost>if 'ipconfig' == '' goto usage
```

```
C:\rhost>c:
```

```
C:\rhost>cd \webdriver
```

```
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : SQLRTE2
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
```

```

Physical Address. . . . . : 00-06-5B-8C-9B-7E
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.2
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.3.10
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpi. . . . . : Disabled

Ethernet adapter Client:

    Connection-specific DNS Suffix . :
    Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
#2
    Physical Address. . . . . : 00-06-5B-8C-9B-7F
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.2.10.11
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : 192.1.10.21
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : 192.10.1.11
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
    NetBIOS over Tcpi. . . . . : Disabled

C:\webdriver>goto end
C:\rhost>if 'ipconfig' == '' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all

```

```

Windows IP Configuration

Host Name . . . . . : SQLRTE3
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Ethernet adapter Admin:

    Connection-specific DNS Suffix . :
    Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
    Physical Address. . . . . : 00-06-5B-8C-9B-62
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.168.93.3
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : 192.158.3.11
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
    NetBIOS over Tcpi. . . . . : Disabled

Ethernet adapter Client:

    Connection-specific DNS Suffix . :
    Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
#2
    Physical Address. . . . . : 00-06-5B-8C-9B-63
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.3.10.11
    Subnet Mask . . . . . : 255.255.255.0

```

```
IP Address. . . . . : 192.2.10.21
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.11.1.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

```
C:\webdriver>goto end
C:\rhost>if 'ipconfig' == '' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : SQLRTE4
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-8C-9B-C0
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.4
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.3.12
```

```
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
#2
Physical Address. . . . . : 00-06-5B-8C-9B-C1
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.4.10.11
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.2.10.22
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.12.1.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

```
C:\webdriver>goto end
C:\rhost>if 'ipconfig' == '' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : SQLRTE5
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
```

```
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-8C-9B-D2
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.5
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.3.13
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
#2
Physical Address. . . . . : 00-06-5B-8C-9B-D3
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.5.10.11
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.3.10.21
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.13.1.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

```
NetBIOS over Tcpip. . . . . : Disabled
```

```
C:\webdriver>goto end
```

```
C:\rhost>if 'ipconfig' == '' goto usage
```

```
C:\rhost>c:
```

```
C:\rhost>cd \webdriver
```

```
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : SQLRTE6
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-8C-9B-6A
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.6
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.3.14
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
#2
Physical Address. . . . . : 00-06-5B-8C-9B-6B
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.6.10.11
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.3.10.22
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.14.1.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpi. . . . . : Disabled
```

```
C:\webdriver>goto end
C:\rhost>if 'ipconfig' == '' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : SQLRTE7
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-8C-9B-84
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.7
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.3.15
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpi. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
#2
Physical Address. . . . . : 00-06-5B-8C-9B-85
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.7.10.11
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.4.10.21
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.15.1.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpi. . . . . : Disabled
```

```
C:\webdriver>goto end
C:\rhost>if 'ipconfig' == '' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
```

```
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : SQLRTE8
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-8C-9B-6E
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.8
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.3.16
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
#2
Physical Address. . . . . : 00-06-5B-8C-9B-6F
DHCP Enabled. . . . . : No
```

```
IP Address. . . . . : 192.8.10.11
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.4.10.22
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.16.1.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

```
C:\webdriver>goto end
```

```
Volume in drive \\sqlrte1\c$ has no label.
Volume Serial Number is 7433-AD41
```

```
Directory of \\sqlrte1\c$\webdriver
```

```
06/06/2005  01:33p                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s) 13,938,425,856 bytes free
```

```
Volume in drive \\sqlrte2\c$ has no label.
Volume Serial Number is 7433-AD41
```

```
Directory of \\sqlrte2\c$\webdriver
```

```
06/06/2005  01:33p                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s) 13,996,556,288 bytes free
```

```
Volume in drive \\sqlrte3\c$ has no label.
Volume Serial Number is 7433-AD41
```

```
Directory of \\sqlrte3\c$\webdriver
```

```
06/06/2005  01:33p                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s) 13,956,288,512 bytes free
```

```
Volume in drive \\sqlrte4\c$ has no label.
Volume Serial Number is 7433-AD41
```

```
Directory of \\sqlrte4\c$\webdriver
```

```
06/06/2005  01:33p                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s) 13,956,554,752 bytes free
```

```
Volume in drive \\sqlrte5\c$ has no label.
Volume Serial Number is 7433-AD41
```

```
Directory of \\sqlrte5\c$\webdriver
```

```
06/06/2005  01:33p                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s) 13,874,114,560 bytes free
```

```
Volume in drive \\sqlrte6\c$ has no label.
```

Volume Serial Number is 7433-AD41

Directory of \\sqlrte6\c\$\webdriver

```
06/06/2005  01:33p                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  13,881,344,000 bytes free
Volume in drive \\sqlrte7\c$ has no label.
Volume Serial Number is 7433-AD41
```

Directory of \\sqlrte7\c\$\webdriver

```
06/06/2005  01:33p                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  13,881,896,960 bytes free
Volume in drive \\sqlrte8\c$ has no label.
Volume Serial Number is 7433-AD41
```

Directory of \\sqlrte8\c\$\webdriver

```
06/06/2005  01:33p                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  12,890,963,968 bytes free
```

Start RTE Cmd

Startrte.txt

```
start " D1 RTE1 " /MIN webdriver.cmd 1
start " D1 RTE2 " /MIN webdriver.cmd 2
start " D1 RTE3 " /MIN webdriver.cmd 3
start " D1 RTE4 " /MIN webdriver.cmd 4
start " D1 RTE5 " /MIN webdriver.cmd 5
start " D1 RTE6 " /MIN webdriver.cmd 6
start " D1 RTE7 " /MIN webdriver.cmd 7
start " D1 RTE8 " /MIN webdriver.cmd 8
start " D1 RTE9 " /MIN webdriver.cmd 9
start " D1 RTE10 " /MIN webdriver.cmd 10
start " D1 RTE11 " /MIN webdriver.cmd 11
start " D1 RTE12 " /MIN webdriver.cmd 12
start " D1 RTE13 " /MIN webdriver.cmd 13
start " D1 RTE14 " /MIN webdriver.cmd 14
start " D1 RTE15 " /MIN webdriver.cmd 15
start " D1 RTE16 " /MIN webdriver.cmd 16
start " D1 RTE17 " /MIN webdriver.cmd 17
start " D1 RTE18 " /MIN webdriver.cmd 18
start " D1 RTE19 " /MIN webdriver.cmd 19
start " D1 RTE20 " /MIN webdriver.cmd 20
start " D1 RTE21 " /MIN webdriver.cmd 21
start " D1 RTE22 " /MIN webdriver.cmd 22
start " D1 RTE23 " /MIN webdriver.cmd 23
start " D1 RTE24 " /MIN webdriver.cmd 24
start " D1 RTE25 " /MIN webdriver.cmd 25
```

```
start " D1 RTE26 " /MIN webdriver.cmd 26
start " D1 RTE27 " /MIN webdriver.cmd 27
start " D1 RTE28 " /MIN webdriver.cmd 28
start " D1 RTE29 " /MIN webdriver.cmd 29
start " D1 RTE30 " /MIN webdriver.cmd 30
start " D1 RTE31 " /MIN webdriver.cmd 31
start " D1 RTE32 " /MIN webdriver.cmd 32
start " D1 RTE33 " /MIN webdriver.cmd 33
start " D1 RTE34 " /MIN webdriver.cmd 34
start " D1 RTE35 " /MIN webdriver.cmd 35
start " D2 RTE36 " /MIN webdriver.cmd 36
start " D2 RTE37 " /MIN webdriver.cmd 37
start " D2 RTE38 " /MIN webdriver.cmd 38
start " D2 RTE39 " /MIN webdriver.cmd 39
start " D2 RTE40 " /MIN webdriver.cmd 40
start " D2 RTE41 " /MIN webdriver.cmd 41
start " D2 RTE42 " /MIN webdriver.cmd 42
start " D2 RTE43 " /MIN webdriver.cmd 43
start " D2 RTE44 " /MIN webdriver.cmd 44
start " D2 RTE45 " /MIN webdriver.cmd 45
start " D2 RTE46 " /MIN webdriver.cmd 46
start " D2 RTE47 " /MIN webdriver.cmd 47
start " D2 RTE48 " /MIN webdriver.cmd 48
start " D2 RTE49 " /MIN webdriver.cmd 49
start " D2 RTE50 " /MIN webdriver.cmd 50
start " D2 RTE51 " /MIN webdriver.cmd 51
start " D2 RTE52 " /MIN webdriver.cmd 52
start " D2 RTE53 " /MIN webdriver.cmd 53
start " D2 RTE54 " /MIN webdriver.cmd 54
start " D2 RTE55 " /MIN webdriver.cmd 55
start " D2 RTE56 " /MIN webdriver.cmd 56
start " D2 RTE57 " /MIN webdriver.cmd 57
start " D2 RTE58 " /MIN webdriver.cmd 58
start " D2 RTE59 " /MIN webdriver.cmd 59
start " D2 RTE60 " /MIN webdriver.cmd 60
start " D2 RTE61 " /MIN webdriver.cmd 61
start " D2 RTE62 " /MIN webdriver.cmd 62
start " D2 RTE63 " /MIN webdriver.cmd 63
start " D2 RTE64 " /MIN webdriver.cmd 64
start " D2 RTE65 " /MIN webdriver.cmd 65
start " D2 RTE66 " /MIN webdriver.cmd 66
start " D2 RTE67 " /MIN webdriver.cmd 67
start " D2 RTE68 " /MIN webdriver.cmd 68
start " D2 RTE69 " /MIN webdriver.cmd 69
start " D2 RTE70 " /MIN webdriver.cmd 70
start " D3 RTE71 " /MIN webdriver.cmd 71
start " D3 RTE72 " /MIN webdriver.cmd 72
start " D3 RTE73 " /MIN webdriver.cmd 73
start " D3 RTE74 " /MIN webdriver.cmd 74
start " D3 RTE75 " /MIN webdriver.cmd 75
start " D3 RTE76 " /MIN webdriver.cmd 76
start " D3 RTE77 " /MIN webdriver.cmd 77
start " D3 RTE78 " /MIN webdriver.cmd 78
start " D3 RTE79 " /MIN webdriver.cmd 79
start " D3 RTE80 " /MIN webdriver.cmd 80
start " D3 RTE81 " /MIN webdriver.cmd 81
start " D3 RTE82 " /MIN webdriver.cmd 82
start " D3 RTE83 " /MIN webdriver.cmd 83
start " D3 RTE84 " /MIN webdriver.cmd 84
```

```

start " D3 RTE85 " /MIN webdriver.cmd 85
start " D3 RTE86 " /MIN webdriver.cmd 86
start " D3 RTE87 " /MIN webdriver.cmd 87
start " D3 RTE88 " /MIN webdriver.cmd 88
start " D3 RTE89 " /MIN webdriver.cmd 89
start " D3 RTE90 " /MIN webdriver.cmd 90
start " D3 RTE91 " /MIN webdriver.cmd 91
start " D3 RTE92 " /MIN webdriver.cmd 92
start " D3 RTE93 " /MIN webdriver.cmd 93
start " D3 RTE94 " /MIN webdriver.cmd 94
start " D3 RTE95 " /MIN webdriver.cmd 95
start " D3 RTE96 " /MIN webdriver.cmd 96
start " D3 RTE97 " /MIN webdriver.cmd 97
start " D3 RTE98 " /MIN webdriver.cmd 98
start " D3 RTE99 " /MIN webdriver.cmd 99
start " D3 RTE100 " /MIN webdriver.cmd 100
start " D3 RTE101 " /MIN webdriver.cmd 101
start " D3 RTE102 " /MIN webdriver.cmd 102
start " D3 RTE103 " /MIN webdriver.cmd 103
start " D3 RTE104 " /MIN webdriver.cmd 104
start " D3 RTE105 " /MIN webdriver.cmd 105
start " D4 RTE106 " /MIN webdriver.cmd 106
start " D4 RTE107 " /MIN webdriver.cmd 107
start " D4 RTE108 " /MIN webdriver.cmd 108
start " D4 RTE109 " /MIN webdriver.cmd 109
start " D4 RTE110 " /MIN webdriver.cmd 110
start " D4 RTE111 " /MIN webdriver.cmd 111
start " D4 RTE112 " /MIN webdriver.cmd 112
start " D4 RTE113 " /MIN webdriver.cmd 113
start " D4 RTE114 " /MIN webdriver.cmd 114
start " D4 RTE115 " /MIN webdriver.cmd 115
start " D4 RTE116 " /MIN webdriver.cmd 116
start " D4 RTE117 " /MIN webdriver.cmd 117
start " D4 RTE118 " /MIN webdriver.cmd 118
start " D4 RTE119 " /MIN webdriver.cmd 119
start " D4 RTE120 " /MIN webdriver.cmd 120
start " D4 RTE121 " /MIN webdriver.cmd 121
start " D4 RTE122 " /MIN webdriver.cmd 122
start " D4 RTE123 " /MIN webdriver.cmd 123
start " D4 RTE124 " /MIN webdriver.cmd 124
start " D4 RTE125 " /MIN webdriver.cmd 125
start " D4 RTE126 " /MIN webdriver.cmd 126
start " D4 RTE127 " /MIN webdriver.cmd 127
start " D4 RTE128 " /MIN webdriver.cmd 128
start " D4 RTE129 " /MIN webdriver.cmd 129
start " D4 RTE130 " /MIN webdriver.cmd 130
start " D4 RTE131 " /MIN webdriver.cmd 131
start " D4 RTE132 " /MIN webdriver.cmd 132
start " D4 RTE133 " /MIN webdriver.cmd 133
start " D4 RTE134 " /MIN webdriver.cmd 134
start " D4 RTE135 " /MIN webdriver.cmd 135
start " D4 RTE136 " /MIN webdriver.cmd 136
start " D4 RTE137 " /MIN webdriver.cmd 137
start " D4 RTE138 " /MIN webdriver.cmd 138
start " D4 RTE139 " /MIN webdriver.cmd 139
start " D4 RTE140 " /MIN webdriver.cmd 140
start " D5 RTE141 " /MIN webdriver.cmd 141
start " D5 RTE142 " /MIN webdriver.cmd 142
start " D5 RTE143 " /MIN webdriver.cmd 143

```

```

start " D5 RTE144 " /MIN webdriver.cmd 144
start " D5 RTE145 " /MIN webdriver.cmd 145
start " D5 RTE146 " /MIN webdriver.cmd 146
start " D5 RTE147 " /MIN webdriver.cmd 147
start " D5 RTE148 " /MIN webdriver.cmd 148
start " D5 RTE149 " /MIN webdriver.cmd 149
start " D5 RTE150 " /MIN webdriver.cmd 150
start " D5 RTE151 " /MIN webdriver.cmd 151
start " D5 RTE152 " /MIN webdriver.cmd 152
start " D5 RTE153 " /MIN webdriver.cmd 153
start " D5 RTE154 " /MIN webdriver.cmd 154
start " D5 RTE155 " /MIN webdriver.cmd 155
start " D5 RTE156 " /MIN webdriver.cmd 156
start " D5 RTE157 " /MIN webdriver.cmd 157
start " D5 RTE158 " /MIN webdriver.cmd 158
start " D5 RTE159 " /MIN webdriver.cmd 159
start " D5 RTE160 " /MIN webdriver.cmd 160
start " D5 RTE161 " /MIN webdriver.cmd 161
start " D5 RTE162 " /MIN webdriver.cmd 162
start " D5 RTE163 " /MIN webdriver.cmd 163
start " D5 RTE164 " /MIN webdriver.cmd 164
start " D5 RTE165 " /MIN webdriver.cmd 165
start " D5 RTE166 " /MIN webdriver.cmd 166
start " D5 RTE167 " /MIN webdriver.cmd 167
start " D5 RTE168 " /MIN webdriver.cmd 168
start " D5 RTE169 " /MIN webdriver.cmd 169
start " D5 RTE170 " /MIN webdriver.cmd 170
start " D5 RTE171 " /MIN webdriver.cmd 171
start " D5 RTE172 " /MIN webdriver.cmd 172
start " D5 RTE173 " /MIN webdriver.cmd 173
start " D5 RTE174 " /MIN webdriver.cmd 174
start " D5 RTE175 " /MIN webdriver.cmd 175
start " D6 RTE176 " /MIN webdriver.cmd 176
start " D6 RTE177 " /MIN webdriver.cmd 177
start " D6 RTE178 " /MIN webdriver.cmd 178
start " D6 RTE179 " /MIN webdriver.cmd 179
start " D6 RTE180 " /MIN webdriver.cmd 180
start " D6 RTE181 " /MIN webdriver.cmd 181
start " D6 RTE182 " /MIN webdriver.cmd 182
start " D6 RTE183 " /MIN webdriver.cmd 183
start " D6 RTE184 " /MIN webdriver.cmd 184
start " D6 RTE185 " /MIN webdriver.cmd 185
start " D6 RTE186 " /MIN webdriver.cmd 186
start " D6 RTE187 " /MIN webdriver.cmd 187
start " D6 RTE188 " /MIN webdriver.cmd 188
start " D6 RTE189 " /MIN webdriver.cmd 189
start " D6 RTE190 " /MIN webdriver.cmd 190
start " D6 RTE191 " /MIN webdriver.cmd 191
start " D6 RTE192 " /MIN webdriver.cmd 192
start " D6 RTE193 " /MIN webdriver.cmd 193
start " D6 RTE194 " /MIN webdriver.cmd 194
start " D6 RTE195 " /MIN webdriver.cmd 195
start " D6 RTE196 " /MIN webdriver.cmd 196
start " D6 RTE197 " /MIN webdriver.cmd 197
start " D6 RTE198 " /MIN webdriver.cmd 198
start " D6 RTE199 " /MIN webdriver.cmd 199
start " D6 RTE200 " /MIN webdriver.cmd 200
start " D6 RTE201 " /MIN webdriver.cmd 201
start " D6 RTE202 " /MIN webdriver.cmd 202

```


start " D6 RTE203 " /MIN webdriver.cmd 203
start " D6 RTE204 " /MIN webdriver.cmd 204
start " D6 RTE205 " /MIN webdriver.cmd 205
start " D6 RTE206 " /MIN webdriver.cmd 206
start " D6 RTE207 " /MIN webdriver.cmd 207
start " D6 RTE208 " /MIN webdriver.cmd 208
start " D6 RTE209 " /MIN webdriver.cmd 209
start " D6 RTE210 " /MIN webdriver.cmd 210
start " D7 RTE211 " /MIN webdriver.cmd 211
start " D7 RTE212 " /MIN webdriver.cmd 212
start " D7 RTE213 " /MIN webdriver.cmd 213
start " D7 RTE214 " /MIN webdriver.cmd 214
start " D7 RTE215 " /MIN webdriver.cmd 215
start " D7 RTE216 " /MIN webdriver.cmd 216
start " D7 RTE217 " /MIN webdriver.cmd 217
start " D7 RTE218 " /MIN webdriver.cmd 218
start " D7 RTE219 " /MIN webdriver.cmd 219
start " D7 RTE220 " /MIN webdriver.cmd 220
start " D7 RTE221 " /MIN webdriver.cmd 221
start " D7 RTE222 " /MIN webdriver.cmd 222
start " D7 RTE223 " /MIN webdriver.cmd 223
start " D7 RTE224 " /MIN webdriver.cmd 224
start " D7 RTE225 " /MIN webdriver.cmd 225
start " D7 RTE226 " /MIN webdriver.cmd 226
start " D7 RTE227 " /MIN webdriver.cmd 227
start " D7 RTE228 " /MIN webdriver.cmd 228
start " D7 RTE229 " /MIN webdriver.cmd 229
start " D7 RTE230 " /MIN webdriver.cmd 230
start " D7 RTE231 " /MIN webdriver.cmd 231
start " D7 RTE232 " /MIN webdriver.cmd 232
start " D7 RTE233 " /MIN webdriver.cmd 233
start " D7 RTE234 " /MIN webdriver.cmd 234
start " D7 RTE235 " /MIN webdriver.cmd 235
start " D7 RTE236 " /MIN webdriver.cmd 236
start " D7 RTE237 " /MIN webdriver.cmd 237
start " D7 RTE238 " /MIN webdriver.cmd 238
start " D7 RTE239 " /MIN webdriver.cmd 239
start " D7 RTE240 " /MIN webdriver.cmd 240
start " D7 RTE241 " /MIN webdriver.cmd 241
start " D7 RTE242 " /MIN webdriver.cmd 242
start " D7 RTE243 " /MIN webdriver.cmd 243
start " D7 RTE244 " /MIN webdriver.cmd 244
start " D7 RTE245 " /MIN webdriver.cmd 245
start " D8 RTE246 " /MIN webdriver.cmd 246
start " D8 RTE247 " /MIN webdriver.cmd 247
start " D8 RTE248 " /MIN webdriver.cmd 248
start " D8 RTE249 " /MIN webdriver.cmd 249
start " D8 RTE250 " /MIN webdriver.cmd 250
start " D8 RTE251 " /MIN webdriver.cmd 251
start " D8 RTE252 " /MIN webdriver.cmd 252
start " D8 RTE253 " /MIN webdriver.cmd 253
start " D8 RTE254 " /MIN webdriver.cmd 254
start " D8 RTE255 " /MIN webdriver.cmd 255
start " D8 RTE256 " /MIN webdriver.cmd 256
start " D8 RTE257 " /MIN webdriver.cmd 257
start " D8 RTE258 " /MIN webdriver.cmd 258
start " D8 RTE259 " /MIN webdriver.cmd 259
start " D8 RTE260 " /MIN webdriver.cmd 260
start " D8 RTE261 " /MIN webdriver.cmd 261

start " D8 RTE262 " /MIN webdriver.cmd 262
start " D8 RTE263 " /MIN webdriver.cmd 263
start " D8 RTE264 " /MIN webdriver.cmd 264
start " D8 RTE265 " /MIN webdriver.cmd 265
start " D8 RTE266 " /MIN webdriver.cmd 266
start " D8 RTE267 " /MIN webdriver.cmd 267
start " D8 RTE268 " /MIN webdriver.cmd 268
start " D8 RTE269 " /MIN webdriver.cmd 269
start " D8 RTE270 " /MIN webdriver.cmd 270
start " D8 RTE271 " /MIN webdriver.cmd 271
start " D8 RTE272 " /MIN webdriver.cmd 272
start " D8 RTE273 " /MIN webdriver.cmd 273
start " D8 RTE274 " /MIN webdriver.cmd 274
start " D8 RTE275 " /MIN webdriver.cmd 275
start " D8 RTE276 " /MIN webdriver.cmd 276
start " D8 RTE277 " /MIN webdriver.cmd 277
start " D8 RTE278 " /MIN webdriver.cmd 278
start " D8 RTE279 " /MIN webdriver.cmd 279
start " D8 RTE280 " /MIN webdriver.cmd 280

Appendix E - Disk Storage

TPC-C 60-Day Disk Space Requirements					
Init Warehouses	28,000	tpmC	347,854	tpmC/W	12.42
Table	Initial Rows	Data KB	Index KB	Extra 5% KB	Total With 5% KB
Warehouse	28,000	2,992	440	172	3,604
District	280,000	31,112	624	1,587	33,323
Customer	840,000,000	172,307,696	37,137,488	10,472,259	219,917,443
Customer.Text	840,000,000	527,059,952		26,352,998	553,412,950
History (D)	840,000,000	49,051,096	184,160		49,235,256
Order (D)	840,000,000	27,428,576	62,928		27,491,504
New-Order	252,000,000	4,489,984	11,712	225,085	4,726,781
Order-Line (D)	8,399,977,673	550,818,216	1,297,736		552,115,952
Item	100,000	9,416	584	500	10,500
Stock	2,800,000,000	896,000,000	1,888,584	44,894,429	942,783,013
Totals KB		2,227,199,040	40,584,256	81,947,029	2,349,730,325
Db/Filegroup	Count	Size MB	MB Allocated	MB Loaded +5%	MB for 8 Hours
master, model & msdb		22	22	22	22
tempdb		10	10	10	10
mssql70_tpcc_root	1	10	10	10	10
mssql70_misc_fg	70	8,900	623,000	588,570	598,589
mssql70_cs_fg	70	17,350	1,214,500	1,135,450	1,135,450
mssql70_ord_fg	70	11,700	819,000	570,639	783,388
Total Allocated MB			2,656,542	2,294,701	2,517,468
MB					
Dynamic Space MB	612,596	Sum of data for orders, order_line & history			
Static Space	1,682,063	Sum of data+index+5% - Dynamic Space			
Free Space	361,883	Total allocated space - (Dynamic & Static Spaces)			
Daily Growth	121,768	(Dynamic Space / (W * 62.5)) * tpmC			
Daily Spread	179,232	Free space - 1.5 * Daily growth (zero if negative)			
		0 SQL Server can be configured to eliminate Daily Spread			
60 Day Space MB	8,988,137	Static Space + 60 * (Daily Growth + Daily Spread)			
60 Day Space GB	8,777.48				
8 hr log GB	1,044.12	(need double for mirroring)			
Disk Capacity MB	16744	16.352 GB Capacity of 18GB disks (15,000 RPM)			
	35000	34.180 GB Capacity of 36GB disks (15,000 RPM)			
	136854	133.646 GB Capacity of 146GB disks (10,000 RPM)			
Space Usage					
60-day space DB	GB Needed	Disks Priced	GB Priced		
Total DB	8777.48 GB	0	0.00 GB	18GB drives	
		490	16747.98 GB	36GB drives	
		490	16747.98 GB		
8-hr log+mirror	2088.24 GB	20	2610.79 GB	146GB drives	
OS, SQL Server	14.00 GB	2	55.90 GB	36GB drives	
Total space	10879.72 GB	512	19414.67 GB	19.0 TB	

TPC-C Dynamic Table Growth Rates for 8 Hours

347,854 tpmC

Tables	Initial (KB)	Final (KB)	Change(KB)	KB / New-Order	8-Hr MB
History	49,235,256	56,451,536	7,216,280	0.0614	58,100.09
Orders	27,491,504	35,195,336	7,703,832	0.0865	40,950.74
Order_line	552,115,952	692,626,032	140,510,080	1.1964	734,254.20
Dynamic	628,842,712	784,272,904	155,430,192	1.3443	833,305.04
New_order	4,501,696	7,229,208	2,727,512	0.0232	8,182.95
Static					
Log	25,416,576	777,642,630	752,226,054	6.4049	1,069,180.86
SUM(d_next_o_id)	840,280,000	957,725,513	117,445,513		

Appendix F - Third-Party Price Quotations

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399

Tel 425 882 8080
Fax 425 936 7329
<http://www.microsoft.com/>

Microsoft

February 4, 2006

Unisys Corporation
Glenn Weeks
2470 Highcrest Rd
Roseville, MN 55113

Mr. Weeks:

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
810-03134	SQL Server 2005 Enterprise x64 Edition <i>Per Processor License</i> <i>Discount Schedule: Open Program - Level C</i> <i>Unit Price reflects a 6% discount from the retail unit price of \$24,999.</i>	\$23,432	8	\$187,456
P73-00295	Windows Server 2003 Standard Edition <i>Server License Only - No CALs</i> <i>Discount Schedule: Open Program - No Level</i> <i>Unit Price reflects a 28% discount from the retail unit price of \$999.</i>	\$719	4	\$2,876
254-00170	Visual C++ Standard Edition <i>No Discounts Applied</i>	\$109	1	\$109
N/A	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.

Some products may not be currently orderable but will be available through Microsoft's normal distribution channels by November 7, 2005.

Defect support is included in the purchase price. Additional support is available from Microsoft PSS on an incident by incident basis at \$245 per call.

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.

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 Fax: 203-384-0473
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 Bridgeport, CT 06605
 www.cri1.com

SALES QUOTE

SQ-21392

Feb 08, 2006

Customer		Contact		Ship To			
UNISYS CORPORATION 25725 JERONIMO RD MISSION VIEJO CA 92691 UNITED STATES				UNISYS CORPORATION 25725 JERONIMO RD MISSION VIEJO CA 92691 UNITED STATES			
Account	Terms	Due Date	Account Rep		Schedule Date		
UNIMISSI	NET 30	Mar 10, 2006	Eric Willcox				
Quotation	PO #	Reference	Ship VIA		Page	Printed	
SQ-21392			UPS GROUND		1	02/08/06 20:28	
L Item	Description	Qty	Ship	Price	M	Discount	Amount
1	ES7000/one Server						
2	ES/112083-600	1		417050.00	EA		417050.00
3							
4	FC76222-P64	8		2850.00	EA		22800.00
5	FCH752323-PCX	2		2138.00	EA		4276.00
6	FAC7600361-IDK	1		618.00	EA		618.00
7	HDF4036100-X25	1		428.00	EA		428.00
8	ES70006-UIF	1		546.00	EA		546.00
9	WNX6408-TSP	1		17556.00	EA		17556.00
10							
11	DUS200308-TSP	2		1596.00	EA		3192.00
12							
13	Storage Hardware						
14	JBD203615-P84	6		36086.00	EA		216516.00
15	JBD203615-P28	1		16641.00	EA		16641.00
16	JBD203615-2F	7		646.00	EA		4522.00
17	CXR14610-2GF	20		1406.00	EA		28120.00
18	CX300-DPE	1		13300.00	EA		13300.00
19	CXP2-FD	1		5890.00	EA		5890.00
20	CXN300-WRK	1		2138.00	EA		2138.00
21	JBD2002-SA	21		3197.00	EA		67137.00
22	JBD2011-SA	14		3413.00	EA		47782.00
23	RMM20103-ELS	7		4559.00	EA		31913.00
24	RMM20701-TAR	21		1805.00	EA		37905.00
25	USS10300-SW	1		5472.00	EA		5472.00
26	USS20320-LIC	1		37484.00	EA		37484.00
27	JBD20003-CCL	21		53.00	EA		1113.00
28	JBD2001-RMK	35		190.00	EA		6650.00
29	KVM9163101-SWC	1		1805.00	EA		1805.00
						Page 1	
						SubTotal	990854.00

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SALES QUOTE

SQ-21392

Feb 08, 2006

Customer		Contact	Ship To				
UNISYS CORPORATION 25725 JERONIMO RD MISSION VIEJO CA 92691 UNITED STATES			UNISYS CORPORATION 25725 JERONIMO RD MISSION VIEJO CA 92691 UNITED STATES				
Account	Terms	Due Date	Account Rep	Schedule Date			
UNIMISSI	NET 30	Mar 10, 2006	Eric Willcox				
Quotation	PO #	Reference	Ship VIA	Page Printed			
SQ-21392			UPS GROUND	2 02/08/06 20:28			
L Item	Description	Qty	Ship	Price	M	Discount	Amount
30	ES70004-UIF	1		665.00	EA		665.00
31	I/F: MONITOR, 17-INCH LDC, KYBRD, MSE CABLE						
32	KVM9001301-CNV	11		114.00	EA		1254.00
33	SFR9-PWR	15		162.00	EA		2430.00
34	USE1936-LC6	15		86.00	EA		1290.00
35	HRT361941-OFT	5		1425.00	EA		7125.00
36							
37	ES3120L Servers						
38	ESL312002-340	4		1859.00	EA		7436.00
39	CPL3120342 2MB	4		1063.00	EA		4252.00
40	DIM3120021-2GB	4		864.00	EA		3456.00
41	HDP36115-DC4	4		332.00	EA		1328.00
42	HBP3120101-MOD	4		264.00	EA		1056.00
43	ESL3120-VRL	4		331.00	EA		1324.00
44	FCH752323-PCX	4		2138.00	EA		8552.00
45	CDR12243-AIS	4		41.00	EA		164.00
46							
47	Discount						
48	DISCOUNT	1		-144366.00	EA		-144366.00
49	Volume Cash Discount for similiar configurations & quantities						
50							
51							
52	Disks come with a 3 year return-to-factory warranty, 7 day replenishment.						
53							
54							
55							
56	Quote valid for 90 days.						
57							
						Taxable	0.00
						Tax	0.00
						Exempt	886820.00
						Total	886820.00
						Paid	0.00
						Tr Disc	0.00
						Balance	886820.00
						Amount shown in Rate :0.00 of	

Ethernet Cables, Cat5e Cables, Category 5e Cables, Category 6 Cables, Patch Cables - Microsoft Internet Explorer

Address: http://www.gocables.com/CAT5_Patch_Cables/index.htm

GCP08889 **NEW! Extended lengths are now available!**

Standard CAT 5e Patch Cable designed for high performance in a CAT 5e link. CAT 5e Patch Cables come with standard T568B Wiring. Available in 5 colors Black, Blue, Gray, White, and Yellow. Speeds up to 350 MHz.

Part No.	Length	Each	10 or More
GCP0888901	1 ft.	0.58	0.48
GCP0888903	3 ft.	0.63	0.52
GCP0888905	5 ft.	0.78	0.64
GCP0888907	7 ft.	1.02	0.84
GCP0888910	10 ft.	1.40	1.17
GCP0888914	14 ft.	1.75	1.41
GCP0888920	20 ft.	2.91	2.22
GCP0888925	25 ft.	3.50	2.66
GCP0888950	50 ft.	6.57	5.00
GCP0888975	75 ft.	9.64	7.34
GCP088891C	100 ft.	12.71	9.87

GCP08889GN **NEW! Green is now available!**

Standard CAT 5e Patch Cables comes with T568B Wiring. Speeds up to 350 MHz.

Part No.	Length	Each	10 or More
GCP0888903-GN	3 ft.	0.67	0.60
GCP0888905-GN	5 ft.	0.79	0.71
GCP0888907-GN	7 ft.	0.88	0.79
GCP0888910-GN	10 ft.	1.14	1.02
GCP0888914-GN	14 ft.	1.58	1.41
GCP0888925-GN	25 ft.	2.45	2.20
GCP0888950-GN	50 ft.	4.38	3.93

GCP08889RD **NEW! Red is now available!**

Standard 10 foot - CAT 5e Patch Cord cables (Orders of 10-19 = 20% Discount)

Examples:
DSL modem to a computer use a crossover Patch Cable
DSL to an IP Router/Hub use a standard straight through Patch Cable (T568A or T568B)

Note:
Please allow a minimum of 3 days lead time for custom assemblies. Custom Assemblies are non returnable unless defective.

Fiber Cables, Fiber Data Cables, Fiber Optics, Fiber Optic Cables, Fiber O...r Jumpers, Multimode Fiber Optics, Singlemode Fiber Optics at GoCables.com



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You are here: Home Multimode Fiber Optic Cables

Multimode Duplex Fiber Optic Patch Cables

GoCables stocks an exceptional selection and inventory of Fiber Optic Patch Cables. We also offer customization on our fiber optic cables to any length you specify. Fiber Optic Patch Cables in Multimode are available in 50µm and 62.5µm. SC, ST, LC, FC, MT-RJ, E2000 and MU connectors have polished ceramic ferrules for precision and durability. The SC and LC Duplex Patch Cables come equipped with a clip to maintain polarity.



GCFAZLL

LC to LC - Multimode Duplex Fiber Optic Patch Cable. LC cables are available in 50µ and 62.5µ (62.5 is Standard) and in *any cable length*.

The LC fiber optic connector interface is based on a 1.25mm ceramic ferrule and the familiar latching mechanism of the RJ-45 modular plug and jack. The LC connector is a small-form-factor connector that offers a port density equal to the modular jack

Available Lengths				Add to Cart
Part #	Cable Length	Unit Price	10 or more	
GCFAZLL01	1 m	26.42	19.82	
GCFAZLL02	2 m	27.68	20.76	
GCFAZLL03	3 m	28.94	21.71	
GCFAZLL05	5 m	31.46	23.60	
GCFAZLL10	10 m	37.76	28.32	
GCFAZLL15	15 m	44.06	33.05	
GCFAZLL20	20 m	50.36	37.77	
GCFAZLL25	25 m	56.66	42.50	
Custom Length Cable Pricing				



GoCables Discount

15-25% Off
All sale pricing is for Web Orders ONLY

The quantity discount for each product is located on the product page. Discounts will be combined for each product code and displayed at the bottom of the shopping cart and on your invoice.

The GoCables production facility is well equipped with Videconn(TM) video inspection scope and monitor for easy detection of scratches, cracks, dirt and any other undesirable conditions during production. Optical fiber inspection scopes are used for final inspection. Polishing of the