UNISYS

TPC Benchmark™ C Full Disclosure Report

Unisys ES7000/one Enterprise Server (16P)

using

Microsoft SQL Server 2005 Enterprise x64 Edition

on

Microsoft Windows Server 2003, Datacenter x64 Edition

First Edition
May 8, 2006

First Edition – May 2006

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Abstract

Overview

This report documents the methodology and results of the TPC Benchmark C (TPC-C) conducted on the Unisys Corporation ES7000/one Enterprise Server (16P). 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

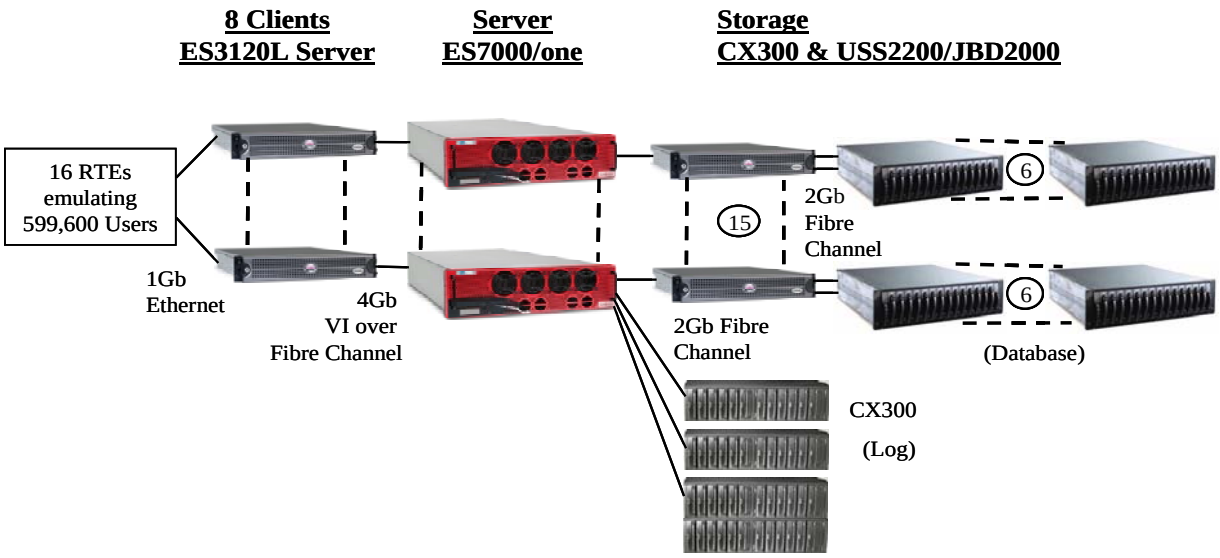
The following pages contain the executive summary results of the benchmark.

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/one Enterprise Server (16P)		TPC-C Rev. 5.6 Report Date May 8, 2006
Total System Cost	**TPC-C Throughput**	**Price Performance**	**Availability Date**
$2,494,393 USD	**749,839 tpmC**	**$3.33 USD/tpmC**	**June 12, 2006**

Processors/ Cores/Threads	Database Manager	Operating System	Other Software	Number of Users
16/32/64 Database 16/16/32 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++	**599,600**



System Components	Qty.	Server	Qty.	Each Client (8)
Processors/Cores/Threads Cache	16/32/64	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	512GB (4GB DIMMs)	1	2GB (1GB DIMMs)
Disk Controllers	17 1	PCI Fibre Channel PCI SAS RAID (boot)	1	Inbuilt SCSI
Disk Drives	1260 24 26 2	36GB FC 15K rpm 73GB FC 15K rpm 146GB FC 10K rpm 36GB SAS 10K rpm (boot media)	1	36GB SCSI 15K rpm
Total Storage		46.6 TB		34.3 GB
Other	8 8 8	Inbuilt 1Gb 2-Port NIC (0 used) PCI VI-over-FC Controller IDE DVD/CD R/RW (1 used)	2 1 1	Inbuilt 1Gb NIC (1 used) PCI VI-over-FC Controller IDE CD-ROM

UNISYS	ES7000/one Enterprise Server (16P)	TPC-C Rev. 5.6 TPC Pricing 1.0.1 Report Date May 8, 2006

Description	Part Number	Price Source	Unit Price	Qty.	Extended Price	3-yr.Maint. Price
Server Hardware:						
SYS: ES7000/one, 16x 7041/3.0GHz, 64GB Mem.	ES7112163-700	1	$399,000	1	$399,000	$14,400
Service Processor & Server Mngmt SW	Included					
MEM: 8GB ES7/one Memory, 4GB DIMMs	FAC7102401-ICA	1	$9,880	8	$79,040	
MEM: 64GB ES7/one Memory, 4GB DIMMs	FAC7116401-64G	1	$59,584	6	$357,504	
CTRL: Fibre Channel HBA, 2-Port, 64-bit PCI	FC76222-P64	1	$2,850	17	$48,450	
CTRL: VI-over-FC HBA, 4Gb 2-Port, 64-bit PCI	FCH7440231-PCX	1	$1,900	8	$15,200	
KIT: 1x RAID Controller, 1x 36GB Disk (boot media)	FAC7100361-IDK	1	$779	1	$779	
DISK: 1x 36GB 10Krpm SAS (boot media)	HDX4036101-X25	1	$428	1	$428	
I/F: Monitor, 17-inch LCD, Kybrd, Mse & Cable	ES70006-UIF	1	$546	1	$546	
			Subtotal		**$900,947**	**$14,400**
Server Software:						
O/S: Windows 2003 Srvr, DC x64 Edtn, 16P, 1yr Lsub.	WNX6416-TSP	1	$35,112	1	$35,112	$17,424
O/S: Windows 2003 Server, DC Lmtd Sbscrptn, 1yr.	DUS200316-TSP	1	$3,173	2	$6,346	
APP: Microsoft SQL Server 2005 Enterprise x64 Edtn.	810-03134	2	$23,432	16	$374,912	** Inc. below
SRVC: Microsoft Problem Resolution Services **		2	$245	1		$245
			Subtotal		**$416,370**	**$17,669**
Storage Hardware:						
DISK: 3.0TB Pkg, 84x 36GB, 15Krpm *	JBD203615-P84	1	$36,086	16	$577,376	Spared
DISK: 1.5TB Pkg, 42x 36GB, 15Krpm *	JBD203615-P42	1	$22,791	1	$22,791	Spared
DISK: 73GB, 15Krpm, 2Gb FC	CXR7315-2GF	1	$1,259	24	$30,216	
DISK: 146GB, 10Krpm, 2Gb FC	CXR14610-2GF	1	$1,349	26	$35,074	
CTRL: DPE, 2 RAID Cntrl, 1GB Cache ea., 0 Disk	CX300-DPE	1	$13,300	3	$39,900	$4,212
RCK: DAE Storage Enclosure, FC 2Gb Optical I/F	CXP2-FD	1	$5,605	1	$5,605	
SYS MGT: Storage, Navisphere Manager	CXN300-WRK	1	$2,138	1	$2,138	$1,008
RCK: Storage Enclosure, FC 2Gb Copper/Copper I/F	JBD2002-SA	1	$3,197	60	$191,820	$30,240
RCK: Storage Enclosure, FC 2Gb Optical/Copper I/F	JBD2011-SA	1	$3,413	30	$102,390	$16,200
CTRL: Symmetric Disk Virt. 2xCPU, 512MB Mem	RMM20103-ELS	1	$4,559	15	$68,385	$18,180
CTRL: USS, Fibre Channel HBA, 1-Port, 64-bit PCI	RMM20701-TAR	1	$1,805	45	$81,225	$21,600
APP: Unisys Storage Sentinel 2200 SDV Software	USS10300-SW	1	$5,472	1	$5,472	$4,068
APP: Storage Sentinel SDV SW, 5TB License	USS20305-LIC	1	$16,800	1	$16,800	
APP: Storage Sentinel SDV SW, 20TB License	USS20320-LIC	1	$37,484	2	$74,968	
CBL: FC, Copper, HSDC2 Conn's, 0.3m	JBD20003-CCL	1	$53	60	$3,180	
CBL: FC, Optical, LC->LC Conn's, 20m *	GCFAZLLM20-M	3	$64	53	$3,392	Spared
RCK: Rack Mount Kit, Disk Enclosure	JBD2001-RMK	1	$190	90	$17,100	
SWTCH: KVM 16-Port PS/2-Cat5	KVM9163101-SWC	1	$1,805	2	$3,610	
I/F: Monitor, 17-inch LCD, Kybrd, Mse & Cable	ES70004-UIF	1	$665	2	$1,330	
ADPTR: Cat5 to PS/2	KVM9001301-CNV	1	$114	23	$2,622	
CBL: Ethernet, Cat5e, RJ45 Conn's, 10ft *	GCPO888910-BK	3	$2	29	$58	Spared
PWR: Distribution Strip, 9-Plug, 220V	SFR9-PWR	1	$162	30	$4,860	
CBL: Power, U.S. (Domestic), C20 - L6-20P	USE1936-LC6	1	$86	30	$2,580	
CAB: 36U x 19" x 41" Open Front Cabinet	HRT361941-OFT	1	$1,425	10	$14,250	
			Subtotal		**$1,307,142**	**$95,508**
Client Hardware:						
SYS: ES3120L w/ 1x 3.4GHz Proc., 0MB Mem	ESL312002-340	1	$1,859	8	$14,872	$5,184
PROC:1x 3.4GHz Intel Xeon/2MB Cache	CPL3120342-2MB	1	$1,063	8	$8,504	
MEM: 2GB, 2x 1GB DIMMs DDR SDRAM	DIM3120021-2GB	1	$862	8	$6,896	
DISK: 36GB 15Krpm U320 3.5 Internal	HDP36115-DC4	1	$332	8	$2,656	
RCK: ES3120L HSBP Modual & SCSI Cable	HBP3120101-MOD	1	$264	8	$2,112	
RCK: ES3120L Universal Rack Kit	ESL3120-VRL	1	$331	8	$2,648	
CTRL: VI-over-FC HBA, 4Gb 2-Port, 64-bit PCI	FCH7440231-PCX	1	$1,900	8	$15,200	
CDR: 24x Slimline CD-ROM & Cable	CDR12243-AIS	1	$41	8	$328	
			Subtotal		**$53,216**	**$5,184**
Client Software:						
O/S: Windows Server 2003, Standard Edition	P73-00295	2	$719	8	$5,752	** Inc. above
ACC: Microsoft Visual C++ Standard Edition	254-00170	2	$109	1	$109	** Inc. above
			Subtotal		**$5,861**	**$0**
Computer Resolutions Inc. 14% Volume Cash Discount (Ext.Price where Price Source=1)					($321,904)	
			Total USD		**$2,361,632**	**$132,761**

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: $2,494,393 USD
tpmC Rating: 749,839
$ / tpmC: $3.33 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: **749,839** **tpmC**

Response Times, in seconds

Transaction	90th %ile	Average	Maximum
New-Order	0.45	0.30	13.27
Payment	0.43	0.29	11.16
Order-Status	0.45	0.30	7.83
Delivery (interactive portion)	0.37	0.23	3.89
Delivery (deferred portion)	0.17	0.13	7.70
Stock-Level	0.67	0.44	5.00
Menu	0.37	0.24	3.91

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	44.92%
Payment	43.03%
Order-Status	4.01%
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 / 10.07	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	91 minutes
Measurement interval (M)	120 minutes
Transactions (all types) completed during measurement interval	200,272,741
Ramp-down time	4 minutes

Checkpointing:

Number of checkpoints	4
Checkpoint interval	30 minutes

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Preface

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/one Enterprise Server (16P) 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. General Items

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

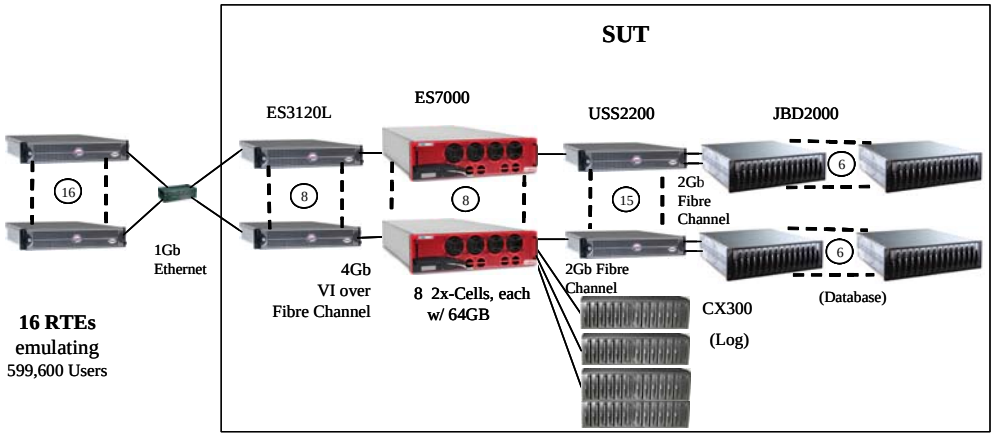
Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences. This includes, but is not limited to: (8.1.1.7)

- *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/one Enterprise Server (16P) 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



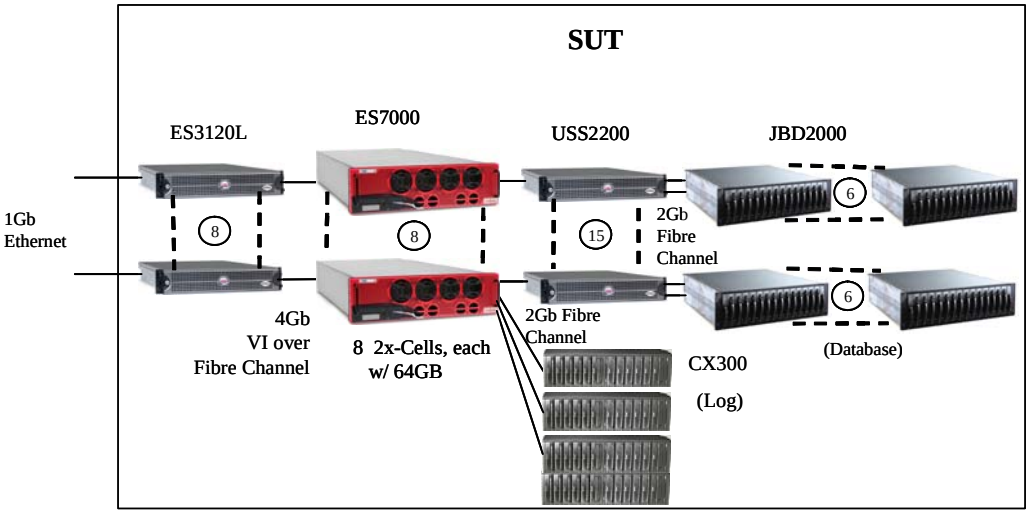
Clients (each of 4)
ES3120L Server
2 x 3.4GHz Intel® Xeon™
w/ 2MB L2 cache,
2 GB memory,
1 x 36GB internal disk,
1 x PCI VI controller,
2 Inbuilt 1Gb Eth. cntrls.
(1 used).

Clients (each of 4)
ES3120L Server
2 x 3.4GHz Intel® Xeon™
w/ 1MB L2 cache,
2 GB memory,
1 x 36GB internal disk,
1 x PCI VI controller,
2 Inbuilt 1Gb Eth. cntrls.
(1 used).

Server
ES7000/one
16 x Intel® Dual-Core Xeon™
7041 3.0GHz w/ 2+2MB L2 cache,
512 GB memory,
2 x 36GB SAS disk, internal ,
1 x PCI SAS RAID cntrl, internal,
17 x PCI Fibre Channel cntrls,
8 x PCI VI-over-FC cntrls,
8 Inbuilt 1Gb Eth. 2-port cntrls.
(0 used).

Storage
USS2200/JBD2000 & CX300
1246 x 18GB + 14 x 36GB
26 x 146GB + 24 x 73GB
External Fibre Channel disks,
21 x FC RAID controllers

Figure 0.2: Priced Configuration



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

Storage
USS2200/JBD2000 & CX300
1260 x 36GB
26 x 146GB + 24 73GB
External Fibre Channel disks,
21 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 a subset of the same database with 7,040 active warehouses. 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 70,140 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 70,140 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 62,000 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	62,000
District	620,000
Customer	1,860,000,000
History	1,860,000,000
Order	1,860,000,000
New-Order	558,000,000
Order Line	18,599,941,258
Stock	6,200,000,000
Item	100,000

2,040 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 1260 36GB disks and the transaction log over 12 mirrored pairs of 146GB disks and 12 mirrored pairs of 73GB disks for the benchmark configuration. Table 4.3 also lists two additional 146GB vault disks that were necessary for the disk subsystem to function correctly, but were not use as storage devices for this benchmark. 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
USS1	1	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	0	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
USS2	1	11	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS2	1	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	0	14	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS3	0	15	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS3	1	16	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS3	1	17	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	36GB	36GB	36GB	36GB	36GB	36GB	36GB
USS3	1	18	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	0	19	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	0	20	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	0	21	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	1	22	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	1	23	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS4	1	24	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	0	25	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	0	26	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	0	27	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	1	28	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	1	29	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS5	1	30	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	0	31	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	0	32	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	0	33	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	1	34	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	1	35	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS6	1	36	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	0	37	0	36GB	36GB	36GB	36GB	36GB	36GB	36GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	0	38	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	0	39	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	1	40	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	1	41	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS7	1	42	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS8	0	43	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS8	0	44	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS8	0	45	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS8	1	46	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS8	1	47	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS8	1	48	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB

Table 4.3: Disk Rack Configuration (cont)

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
USS9	0	49	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS9	0	50	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS9	0	51	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS9	0	52	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS9	1	53	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS9	1	54	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS10	0	55	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS10	0	56	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS10	0	57	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS10	1	58	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS10	1	59	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS10	1	60	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS11	0	61	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS11	0	62	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS11	0	63	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS11	1	64	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS11	1	65	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS11	1	66	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS12	0	67	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS12	0	68	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS12	0	69	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS12	1	70	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS12	1	71	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS12	1	72	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS13	0	73	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS13	0	74	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS13	0	75	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS13	1	76	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS13	1	77	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS13	1	78	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS14	0	79	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS14	0	80	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS14	0	81	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS14	1	82	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS14	1	83	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS14	1	84	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS15	0	85	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS15	0	86	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS15	0	87	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS15	1	88	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS15	1	89	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
USS15	1	90	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
CX300-1	n/a	1	10	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	Unused	Unused
CX300-2	n/a	2	10	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	146GB	Unused	Unused
CX300-3	n/a	3	10	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB
	n/a	4	10	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB	73GB	Unused	Unused	Unused	Unused	Unused	Unused

Table 4.4: ES7000 Server HBA-PCI Slot Map

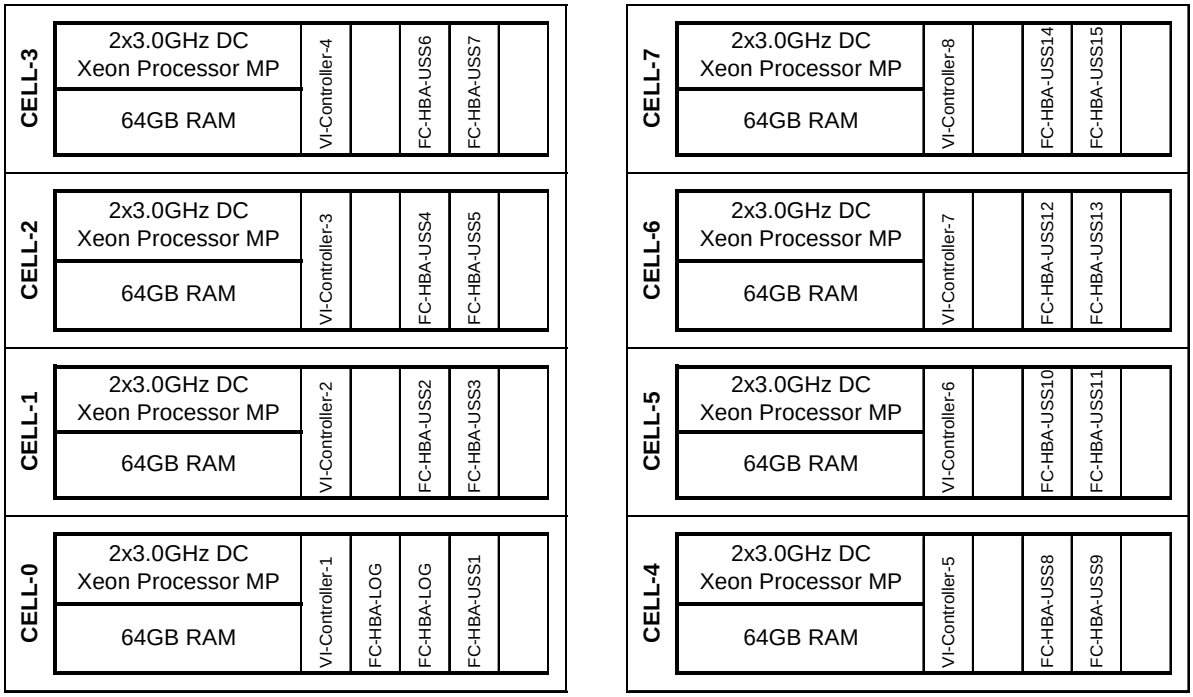


Table 4.5: Disk Management Configuration

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

CX300	SP	Logical Disk#	Partition 1 Size=532.84GB FS=Raw Junction Point
1	A,B	1	C:\BigDb\dbLogs\tpcclog2
			Partition 1 Size=241.56GB FS=Raw Junction Point
		2	C:\BigDb\dbLogs\tpcclog1
		Logical Disk#	Partition 1 Size=532.84GB FS=Raw Junction Point
2	A,B	3	C:\BigDb\dbLogs\tpcclog2
			Partition 1 Size=241.56GB FS=Raw Junction Point
		4	C:\BigDb\dbLogs\tpcclog1
		Logical Disk#	Partition 1 Size=532.84GB FS=Raw Junction Point
3	A,B	5	C:\BigDb\dbLogs\tpcclog2
			Partition 1 Size=241.56GB FS=Raw Junction Point
		6	C:\BigDb\dbLogs\tpcclog1

Disk Management Configuration						
USS	HBA	Logical Disk#	Partition 1 Size=9.68GB FS=Raw Junction Point	Partition 2 Size=14.56GB FS=Raw Junction Point	Partition 3 Size=7.44GB FS=Raw Junction Point	Partition 4 Size=87.94GB FS=NTFS Junction Point
1	1	7	C:\BigDb\cabA\ord1	C:\BigDb\cabA\cs1	C:\BigDb\cabA\misc1	C:\BigDb\dbBackups\backupA1
		8	C:\BigDb\cabA\ord2	C:\BigDb\cabA\cs2	C:\BigDb\cabA\misc2	C:\BigDb\dbBackups\backupA2
		9	C:\BigDb\cabA\ord3	C:\BigDb\cabA\cs3	C:\BigDb\cabA\misc3	C:\BigDb\dbBackups\backupA3
		10	C:\BigDb\cabA\ord4	C:\BigDb\cabA\cs4	C:\BigDb\cabA\misc4	C:\BigDb\dbBackups\backupA4
		11	C:\BigDb\cabA\ord5	C:\BigDb\cabA\cs5	C:\BigDb\cabA\misc5	Unallocated
		12	C:\BigDb\cabA\ord6	C:\BigDb\cabA\cs6	C:\BigDb\cabA\misc6	Unallocated
		13	C:\BigDb\cabA\ord7	C:\BigDb\cabA\cs7	C:\BigDb\cabA\misc7	Unallocated
		14	C:\BigDb\cabA\ord8	C:\BigDb\cabA\cs8	C:\BigDb\cabA\misc8	Unallocated
		15	C:\BigDb\cabA\ord9	C:\BigDb\cabA\cs9	C:\BigDb\cabA\misc9	Unallocated
		16	C:\BigDb\cabA\ord10	C:\BigDb\cabA\cs10	C:\BigDb\cabA\misc10	Unallocated
		17	C:\BigDb\cabA\ord11	C:\BigDb\cabA\cs11	C:\BigDb\cabA\misc11	Unallocated
		18	C:\BigDb\cabA\ord12	C:\BigDb\cabA\cs12	C:\BigDb\cabA\misc12	Unallocated
2	2	19	C:\BigDb\cabB\ord1	C:\BigDb\cabB\cs1	C:\BigDb\cabB\misc1	C:\BigDb\dbBackups\backupB1
		20	C:\BigDb\cabB\ord2	C:\BigDb\cabB\cs2	C:\BigDb\cabB\misc2	C:\BigDb\dbBackups\backupB2
		21	C:\BigDb\cabB\ord3	C:\BigDb\cabB\cs3	C:\BigDb\cabB\misc3	C:\BigDb\dbBackups\backupB3
		22	C:\BigDb\cabB\ord4	C:\BigDb\cabB\cs4	C:\BigDb\cabB\misc4	C:\BigDb\dbBackups\backupB4
		23	C:\BigDb\cabB\ord5	C:\BigDb\cabB\cs5	C:\BigDb\cabB\misc5	Unallocated
		24	C:\BigDb\cabB\ord6	C:\BigDb\cabB\cs6	C:\BigDb\cabB\misc6	Unallocated
		25	C:\BigDb\cabB\ord7	C:\BigDb\cabB\cs7	C:\BigDb\cabB\misc7	Unallocated
		26	C:\BigDb\cabB\ord8	C:\BigDb\cabB\cs8	C:\BigDb\cabB\misc8	Unallocated
		27	C:\BigDb\cabB\ord9	C:\BigDb\cabB\cs9	C:\BigDb\cabB\misc9	Unallocated
		28	C:\BigDb\cabB\ord10	C:\BigDb\cabB\cs10	C:\BigDb\cabB\misc10	Unallocated
		29	C:\BigDb\cabB\ord11	C:\BigDb\cabB\cs11	C:\BigDb\cabB\misc11	Unallocated
		30	C:\BigDb\cabB\ord12	C:\BigDb\cabB\cs12	C:\BigDb\cabB\misc12	Unallocated

Disk Management Configuration (cont.)

Disk Management Configuration						
			Partition 1 Size=9.68GB FS=Raw	Partition 2 Size=14.56GB FS=Raw	Partition 3 Size=7.44GB FS=Raw	Partition 4 Size=87.94GB FS=NTFS
USS	HBA	Logical Disk#	Junction Point	Junction Point	Junction Point	Junction Point
3	3	31	C:\BigDb\cabC\ord1	C:\BigDb\cabC\cs1	C:\BigDb\cabC\misc1	C:\BigDb\dbBackups\backupC1
		32	C:\BigDb\cabC\ord2	C:\BigDb\cabC\cs2	C:\BigDb\cabC\misc2	C:\BigDb\dbBackups\backupC2
		33	C:\BigDb\cabC\ord3	C:\BigDb\cabC\cs3	C:\BigDb\cabC\misc3	C:\BigDb\dbBackups\backupC3
		34	C:\BigDb\cabC\ord4	C:\BigDb\cabC\cs4	C:\BigDb\cabC\misc4	C:\BigDb\dbBackups\backupC4
		35	C:\BigDb\cabC\ord5	C:\BigDb\cabC\cs5	C:\BigDb\cabC\misc5	Unallocated
		36	C:\BigDb\cabC\ord6	C:\BigDb\cabC\cs6	C:\BigDb\cabC\misc6	Unallocated
		37	C:\BigDb\cabC\ord7	C:\BigDb\cabC\cs7	C:\BigDb\cabC\misc7	Unallocated
		38	C:\BigDb\cabC\ord8	C:\BigDb\cabC\cs8	C:\BigDb\cabC\misc8	Unallocated
		39	C:\BigDb\cabC\ord9	C:\BigDb\cabC\cs9	C:\BigDb\cabC\misc9	Unallocated*
		40	C:\BigDb\cabC\ord10	C:\BigDb\cabC\cs10	C:\BigDb\cabC\misc10	Unallocated
		41	C:\BigDb\cabC\ord11	C:\BigDb\cabC\cs11	C:\BigDb\cabC\misc11	Unallocated
		42	C:\BigDb\cabC\ord12	C:\BigDb\cabC\cs12	C:\BigDb\cabC\misc12	Unallocated
4	4	43	C:\BigDb\cabD\ord1	C:\BigDb\cabD\cs1	C:\BigDb\cabD\misc1	C:\BigDb\dbBackups\backupD1
		44	C:\BigDb\cabD\ord2	C:\BigDb\cabD\cs2	C:\BigDb\cabD\misc2	C:\BigDb\dbBackups\backupD2
		45	C:\BigDb\cabD\ord3	C:\BigDb\cabD\cs3	C:\BigDb\cabD\misc3	C:\BigDb\dbBackups\backupD3
		46	C:\BigDb\cabD\ord4	C:\BigDb\cabD\cs4	C:\BigDb\cabD\misc4	C:\BigDb\dbBackups\backupD4
		47	C:\BigDb\cabD\ord5	C:\BigDb\cabD\cs5	C:\BigDb\cabD\misc5	Unallocated
		48	C:\BigDb\cabD\ord6	C:\BigDb\cabD\cs6	C:\BigDb\cabD\misc6	Unallocated
		49	C:\BigDb\cabD\ord7	C:\BigDb\cabD\cs7	C:\BigDb\cabD\misc7	Unallocated
		50	C:\BigDb\cabD\ord8	C:\BigDb\cabD\cs8	C:\BigDb\cabD\misc8	Unallocated
		51	C:\BigDb\cabD\ord9	C:\BigDb\cabD\cs9	C:\BigDb\cabD\misc9	Unallocated
		52	C:\BigDb\cabD\ord10	C:\BigDb\cabD\cs10	C:\BigDb\cabD\misc10	Unallocated
		53	C:\BigDb\cabD\ord11	C:\BigDb\cabD\cs11	C:\BigDb\cabD\misc11	Unallocated
		54	C:\BigDb\cabD\ord12	C:\BigDb\cabD\cs12	C:\BigDb\cabD\misc12	Unallocated
5	5	55	C:\BigDb\cabE\ord1	C:\BigDb\cabE\cs1	C:\BigDb\cabE\misc1	C:\BigDb\dbBackups\backupE1
		56	C:\BigDb\cabE\ord2	C:\BigDb\cabE\cs2	C:\BigDb\cabE\misc2	C:\BigDb\dbBackups\backupE2
		57	C:\BigDb\cabE\ord3	C:\BigDb\cabE\cs3	C:\BigDb\cabE\misc3	C:\BigDb\dbBackups\backupE3
		58	C:\BigDb\cabE\ord4	C:\BigDb\cabE\cs4	C:\BigDb\cabE\misc4	C:\BigDb\dbBackups\backupE4
		59	C:\BigDb\cabE\ord5	C:\BigDb\cabE\cs5	C:\BigDb\cabE\misc5	Unallocated
		60	C:\BigDb\cabE\ord6	C:\BigDb\cabE\cs6	C:\BigDb\cabE\misc6	Unallocated
		61	C:\BigDb\cabE\ord7	C:\BigDb\cabE\cs7	C:\BigDb\cabE\misc7	Unallocated
		62	C:\BigDb\cabE\ord8	C:\BigDb\cabE\cs8	C:\BigDb\cabE\misc8	Unallocated
		63	C:\BigDb\cabE\ord9	C:\BigDb\cabE\cs9	C:\BigDb\cabE\misc9	Unallocated
		64	C:\BigDb\cabE\ord10	C:\BigDb\cabE\cs10	C:\BigDb\cabE\misc10	Unallocated
		65	C:\BigDb\cabE\ord11	C:\BigDb\cabE\cs11	C:\BigDb\cabE\misc11	Unallocated
		66	C:\BigDb\cabE\ord12	C:\BigDb\cabE\cs12	C:\BigDb\cabE\misc12	Unallocated
6	6	67	C:\BigDb\cabF\ord1	C:\BigDb\cabF\cs1	C:\BigDb\cabF\misc1	C:\BigDb\dbBackups\backupF1
		68	C:\BigDb\cabF\ord2	C:\BigDb\cabF\cs2	C:\BigDb\cabF\misc2	C:\BigDb\dbBackups\backupF2
		69	C:\BigDb\cabF\ord3	C:\BigDb\cabF\cs3	C:\BigDb\cabF\misc3	C:\BigDb\dbBackups\backupF3
		70	C:\BigDb\cabF\ord4	C:\BigDb\cabF\cs4	C:\BigDb\cabF\misc4	C:\BigDb\dbBackups\backupF4
		71	C:\BigDb\cabF\ord5	C:\BigDb\cabF\cs5	C:\BigDb\cabF\misc5	Unallocated
		72	C:\BigDb\cabF\ord6	C:\BigDb\cabF\cs6	C:\BigDb\cabF\misc6	Unallocated
		73	C:\BigDb\cabF\ord7	C:\BigDb\cabF\cs7	C:\BigDb\cabF\misc7	Unallocated
		74	C:\BigDb\cabF\ord8	C:\BigDb\cabF\cs8	C:\BigDb\cabF\misc8	Unallocated
		75	C:\BigDb\cabF\ord9	C:\BigDb\cabF\cs9	C:\BigDb\cabF\misc9	Unallocated
		76	C:\BigDb\cabF\ord10	C:\BigDb\cabF\cs10	C:\BigDb\cabF\misc10	Unallocated
		77	C:\BigDb\cabF\ord11	C:\BigDb\cabF\cs11	C:\BigDb\cabF\misc11	Unallocated
		78	C:\BigDb\cabF\ord12	C:\BigDb\cabF\cs12	C:\BigDb\cabF\misc12	Unallocated
7	7	79	C:\BigDb\cabG\ord1	C:\BigDb\cabG\cs1	C:\BigDb\cabG\misc1	C:\BigDb\dbBackups\backupG1
		80	C:\BigDb\cabG\ord2	C:\BigDb\cabG\cs2	C:\BigDb\cabG\misc2	C:\BigDb\dbBackups\backupG2
		81	C:\BigDb\cabG\ord3	C:\BigDb\cabG\cs3	C:\BigDb\cabG\misc3	C:\BigDb\dbBackups\backupG3*
		82	C:\BigDb\cabG\ord4	C:\BigDb\cabG\cs4	C:\BigDb\cabG\misc4	C:\BigDb\dbBackups\backupG4
		83	C:\BigDb\cabG\ord5	C:\BigDb\cabG\cs5	C:\BigDb\cabG\misc5	Unallocated
		84	C:\BigDb\cabG\ord6	C:\BigDb\cabG\cs6	C:\BigDb\cabG\misc6	Unallocated
		85	C:\BigDb\cabG\ord7	C:\BigDb\cabG\cs7	C:\BigDb\cabG\misc7	Unallocated
		86	C:\BigDb\cabG\ord8	C:\BigDb\cabG\cs8	C:\BigDb\cabG\misc8	Unallocated
		87	C:\BigDb\cabG\ord9	C:\BigDb\cabG\cs9	C:\BigDb\cabG\misc9	Unallocated
		88	C:\BigDb\cabG\ord10	C:\BigDb\cabG\cs10	C:\BigDb\cabG\misc10	Unallocated
		89	C:\BigDb\cabG\ord11	C:\BigDb\cabG\cs11	C:\BigDb\cabG\misc11	Unallocated
		90	C:\BigDb\cabG\ord12	C:\BigDb\cabG\cs12	C:\BigDb\cabG\misc12	Unallocated
8	8	91	C:\BigDb\cabH\ord1	C:\BigDb\cabH\cs1	C:\BigDb\cabH\misc1	C:\BigDb\dbBackups\backupH1
		92	C:\BigDb\cabH\ord2	C:\BigDb\cabH\cs2	C:\BigDb\cabH\misc2	C:\BigDb\dbBackups\backupH2
		93	C:\BigDb\cabH\ord3	C:\BigDb\cabH\cs3	C:\BigDb\cabH\misc3	C:\BigDb\dbBackups\backupH3
		94	C:\BigDb\cabH\ord4	C:\BigDb\cabH\cs4	C:\BigDb\cabH\misc4	C:\BigDb\dbBackups\backupH4
		95	C:\BigDb\cabH\ord5	C:\BigDb\cabH\cs5	C:\BigDb\cabH\misc5	Unallocated
		96	C:\BigDb\cabH\ord6	C:\BigDb\cabH\cs6	C:\BigDb\cabH\misc6	Unallocated
		97	C:\BigDb\cabH\ord7	C:\BigDb\cabH\cs7	C:\BigDb\cabH\misc7	Unallocated
		98	C:\BigDb\cabH\ord8	C:\BigDb\cabH\cs8	C:\BigDb\cabH\misc8	Unallocated
		99	C:\BigDb\cabH\ord9	C:\BigDb\cabH\cs9	C:\BigDb\cabH\misc9	Unallocated
		100	C:\BigDb\cabH\ord10	C:\BigDb\cabH\cs10	C:\BigDb\cabH\misc10	Unallocated
		101	C:\BigDb\cabH\ord11	C:\BigDb\cabH\cs11	C:\BigDb\cabH\misc11	Unallocated
		102	C:\BigDb\cabH\ord12	C:\BigDb\cabH\cs12	C:\BigDb\cabH\misc12	Unallocated

Disk Management Configuration (cont.)

Disk Management Configuration						
			Partition 1 Size=9.68GB FS=Raw	Partition 2 Size=14.56GB FS=Raw	Partition 3 Size=7.44GB FS=Raw	Partition 4 Size=87.94GB FS=NTFS
USS	HBA	Logical Disk#	Junction Point	Junction Point	Junction Point	Junction Point
9	9	103	C:\BigDb\cabI\ord1	C:\BigDb\cabI\cs1	C:\BigDb\cabI\misc1	C:\BigDb\dbBackups\backupI1
		104	C:\BigDb\cabI\ord2	C:\BigDb\cabI\cs2	C:\BigDb\cabI\misc2	C:\BigDb\dbBackups\backupI2
		105	C:\BigDb\cabI\ord3	C:\BigDb\cabI\cs3	C:\BigDb\cabI\misc3	C:\BigDb\dbBackups\backupI3
		106	C:\BigDb\cabI\ord4	C:\BigDb\cabI\cs4	C:\BigDb\cabI\misc4	C:\BigDb\dbBackups\backupI4
		107	C:\BigDb\cabI\ord5	C:\BigDb\cabI\cs5	C:\BigDb\cabI\misc5	Unallocated
		108	C:\BigDb\cabI\ord6	C:\BigDb\cabI\cs6	C:\BigDb\cabI\misc6	Unallocated
		109	C:\BigDb\cabI\ord7	C:\BigDb\cabI\cs7	C:\BigDb\cabI\misc7	Unallocated
		110	C:\BigDb\cabI\ord8	C:\BigDb\cabI\cs8	C:\BigDb\cabI\misc8	Unallocated
		111	C:\BigDb\cabI\ord9	C:\BigDb\cabI\cs9	C:\BigDb\cabI\misc9	Unallocated
		112	C:\BigDb\cabI\ord10	C:\BigDb\cabI\cs10	C:\BigDb\cabI\misc10	Unallocated
		113	C:\BigDb\cabI\ord11	C:\BigDb\cabI\cs11	C:\BigDb\cabI\misc11	Unallocated
		114	C:\BigDb\cabI\ord12	C:\BigDb\cabI\cs12	C:\BigDb\cabI\misc12	Unallocated
10	10	115	C:\BigDb\cabJ\ord1	C:\BigDb\cabJ\cs1	C:\BigDb\cabJ\misc1	C:\BigDb\dbBackups\backupJ1
		116	C:\BigDb\cabJ\ord2	C:\BigDb\cabJ\cs2	C:\BigDb\cabJ\misc2	C:\BigDb\dbBackups\backupJ2
		117	C:\BigDb\cabJ\ord3	C:\BigDb\cabJ\cs3	C:\BigDb\cabJ\misc3	C:\BigDb\dbBackups\backupJ3
		118	C:\BigDb\cabJ\ord4	C:\BigDb\cabJ\cs4	C:\BigDb\cabJ\misc4	C:\BigDb\dbBackups\backupJ4
		119	C:\BigDb\cabJ\ord5	C:\BigDb\cabJ\cs5	C:\BigDb\cabJ\misc5	Unallocated
		120	C:\BigDb\cabJ\ord6	C:\BigDb\cabJ\cs6	C:\BigDb\cabJ\misc6	Unallocated
		121	C:\BigDb\cabJ\ord7	C:\BigDb\cabJ\cs7	C:\BigDb\cabJ\misc7	Unallocated
		122	C:\BigDb\cabJ\ord8	C:\BigDb\cabJ\cs8	C:\BigDb\cabJ\misc8	Unallocated
		123	C:\BigDb\cabJ\ord9	C:\BigDb\cabJ\cs9	C:\BigDb\cabJ\misc9	Unallocated
		124	C:\BigDb\cabJ\ord10	C:\BigDb\cabJ\cs10	C:\BigDb\cabJ\misc10	Unallocated
		125	C:\BigDb\cabJ\ord11	C:\BigDb\cabJ\cs11	C:\BigDb\cabJ\misc11	Unallocated
		126	C:\BigDb\cabJ\ord12	C:\BigDb\cabJ\cs12	C:\BigDb\cabJ\misc12	Unallocated
11	11	127	C:\BigDb\cabK\ord1	C:\BigDb\cabK\cs1	C:\BigDb\cabK\misc1	C:\BigDb\dbBackups\backupK1
		128	C:\BigDb\cabK\ord2	C:\BigDb\cabK\cs2	C:\BigDb\cabK\misc2	C:\BigDb\dbBackups\backupK2
		129	C:\BigDb\cabK\ord3	C:\BigDb\cabK\cs3	C:\BigDb\cabK\misc3	C:\BigDb\dbBackups\backupK3
		130	C:\BigDb\cabK\ord4	C:\BigDb\cabK\cs4	C:\BigDb\cabK\misc4	C:\BigDb\dbBackups\backupK4
		131	C:\BigDb\cabK\ord5	C:\BigDb\cabK\cs5	C:\BigDb\cabK\misc5	Unallocated
		132	C:\BigDb\cabK\ord6	C:\BigDb\cabK\cs6	C:\BigDb\cabK\misc6	Unallocated
		133	C:\BigDb\cabK\ord7	C:\BigDb\cabK\cs7	C:\BigDb\cabK\misc7	Unallocated
		134	C:\BigDb\cabK\ord8	C:\BigDb\cabK\cs8	C:\BigDb\cabK\misc8	Unallocated
		135	C:\BigDb\cabK\ord9	C:\BigDb\cabK\cs9	C:\BigDb\cabK\misc9	Unallocated
		136	C:\BigDb\cabK\ord10	C:\BigDb\cabK\cs10	C:\BigDb\cabK\misc10	Unallocated
		137	C:\BigDb\cabK\ord11	C:\BigDb\cabK\cs11	C:\BigDb\cabK\misc11	Unallocated
		138	C:\BigDb\cabK\ord12	C:\BigDb\cabK\cs12	C:\BigDb\cabK\misc12	Unallocated
12	12	139	C:\BigDb\cabL\ord1	C:\BigDb\cabL\cs1	C:\BigDb\cabL\misc1	C:\BigDb\dbBackups\backupL1
		140	C:\BigDb\cabL\ord2	C:\BigDb\cabL\cs2	C:\BigDb\cabL\misc2	C:\BigDb\dbBackups\backupL2
		141	C:\BigDb\cabL\ord3	C:\BigDb\cabL\cs3	C:\BigDb\cabL\misc3	C:\BigDb\dbBackups\backupL3
		142	C:\BigDb\cabL\ord4	C:\BigDb\cabL\cs4	C:\BigDb\cabL\misc4	C:\BigDb\dbBackups\backupL4
		143	C:\BigDb\cabL\ord5	C:\BigDb\cabL\cs5	C:\BigDb\cabL\misc5	Unallocated
		144	C:\BigDb\cabL\ord6	C:\BigDb\cabL\cs6	C:\BigDb\cabL\misc6	Unallocated
		145	C:\BigDb\cabL\ord7	C:\BigDb\cabL\cs7	C:\BigDb\cabL\misc7	Unallocated
		146	C:\BigDb\cabL\ord8	C:\BigDb\cabL\cs8	C:\BigDb\cabL\misc8	Unallocated
		147	C:\BigDb\cabL\ord9	C:\BigDb\cabL\cs9	C:\BigDb\cabL\misc9	Unallocated
		148	C:\BigDb\cabL\ord10	C:\BigDb\cabL\cs10	C:\BigDb\cabL\misc10	Unallocated
		149	C:\BigDb\cabL\ord11	C:\BigDb\cabL\cs11	C:\BigDb\cabL\misc11	Unallocated
		150	C:\BigDb\cabL\ord12	C:\BigDb\cabL\cs12	C:\BigDb\cabL\misc12	Unallocated
13	13	151	C:\BigDb\cabM\ord1	C:\BigDb\cabM\cs1	C:\BigDb\cabM\misc1	C:\BigDb\dbBackups\backupM1
		152	C:\BigDb\cabM\ord2	C:\BigDb\cabM\cs2	C:\BigDb\cabM\misc2	C:\BigDb\dbBackups\backupM\2
		153	C:\BigDb\cabM\ord3	C:\BigDb\cabM\cs3	C:\BigDb\cabM\misc3	C:\BigDb\dbBackups\backupM3
		154	C:\BigDb\cabM\ord4	C:\BigDb\cabM\cs4	C:\BigDb\cabM\misc4	C:\BigDb\dbBackups\backupM4
		155	C:\BigDb\cabM\ord5	C:\BigDb\cabM\cs5	C:\BigDb\cabM\misc5	Unallocated
		156	C:\BigDb\cabM\ord6	C:\BigDb\cabM\cs6	C:\BigDb\cabM\misc6	Unallocated
		157	C:\BigDb\cabM\ord7	C:\BigDb\cabM\cs7	C:\BigDb\cabM\misc7	Unallocated
		158	C:\BigDb\cabM\ord8	C:\BigDb\cabM\cs8	C:\BigDb\cabM\misc8	Unallocated
		159	C:\BigDb\cabM\ord9	C:\BigDb\cabM\cs9	C:\BigDb\cabM\misc9	Unallocated
		160	C:\BigDb\cabM\ord10	C:\BigDb\cabM\cs10	C:\BigDb\cabM\misc10	Unallocated
		161	C:\BigDb\cabM\ord11	C:\BigDb\cabM\cs11	C:\BigDb\cabM\misc11	Unallocated
		162	C:\BigDb\cabM\ord12	C:\BigDb\cabM\cs12	C:\BigDb\cabM\misc12	Unallocated

Disk Management Configuration (cont.)

Disk Management Configuration						
			Partition 1 Size=9.68GB FS=Raw	Partition 2 Size=14.56GB FS=Raw	Partition 3 Size=7.44GB FS=Raw	Partition 4 Size=87.94GB FS=NTFS
USS	HBA	Logical Disk#	Junction Point	Junction Point	Junction Point	Junction Point
14	14	163	C:\BigDb\cabN\ord1	C:\BigDb\cabN\cs1	C:\BigDb\cabN\misc1	C:\BigDb\dbBackups\backupN1
		164	C:\BigDb\cabN\ord2	C:\BigDb\cabN\cs2	C:\BigDb\cabN\misc2	C:\BigDb\dbBackups\backupN2
		165	C:\BigDb\cabN\ord3	C:\BigDb\cabN\cs3	C:\BigDb\cabN\misc3	C:\BigDb\dbBackups\backupN3
		166	C:\BigDb\cabN\ord4	C:\BigDb\cabN\cs4	C:\BigDb\cabN\misc4	C:\BigDb\dbBackups\backupN4
		167	C:\BigDb\cabN\ord5	C:\BigDb\cabN\cs5	C:\BigDb\cabN\misc5	Unallocated
		168	C:\BigDb\cabN\ord6	C:\BigDb\cabN\cs6	C:\BigDb\cabN\misc6	Unallocated
		169	C:\BigDb\cabN\ord7	C:\BigDb\cabN\cs7	C:\BigDb\cabN\misc7	Unallocated
		170	C:\BigDb\cabN\ord8	C:\BigDb\cabN\cs8	C:\BigDb\cabN\misc8	Unallocated
		171	C:\BigDb\cabN\ord9	C:\BigDb\cabN\cs9	C:\BigDb\cabN\misc9	Unallocated
		172	C:\BigDb\cabN\ord10	C:\BigDb\cabN\cs10	C:\BigDb\cabN\misc10	Unallocated
		173	C:\BigDb\cabN\ord11	C:\BigDb\cabN\cs11	C:\BigDb\cabN\misc11	Unallocated
		174	C:\BigDb\cabN\ord12	C:\BigDb\cabN\cs12	C:\BigDb\cabN\misc12	Unallocated
15	15	175	C:\BigDb\cabO\ord1	C:\BigDb\cabO\cs1	C:\BigDb\cabO\misc1	C:\BigDb\dbBackups\backupO1
		176	C:\BigDb\cabO\ord2	C:\BigDb\cabO\cs2	C:\BigDb\cabO\misc2	C:\BigDb\dbBackups\backupO2
		177	C:\BigDb\cabO\ord3	C:\BigDb\cabO\cs3	C:\BigDb\cabO\misc3	C:\BigDb\dbBackups\backupO3
		178	C:\BigDb\cabO\ord4	C:\BigDb\cabO\cs4	C:\BigDb\cabO\misc4	C:\BigDb\dbBackups\backupO4
		179	C:\BigDb\cabO\ord5	C:\BigDb\cabO\cs5	C:\BigDb\cabO\misc5	Unallocated
		180	C:\BigDb\cabO\ord6	C:\BigDb\cabO\cs6	C:\BigDb\cabO\misc6	Unallocated
		181	C:\BigDb\cabO\ord7	C:\BigDb\cabO\cs7	C:\BigDb\cabO\misc7	Unallocated
		182	C:\BigDb\cabO\ord8	C:\BigDb\cabO\cs8	C:\BigDb\cabO\misc8	Unallocated
		183	C:\BigDb\cabO\ord9	C:\BigDb\cabO\cs9	C:\BigDb\cabO\misc9	Unallocated
		184	C:\BigDb\cabO\ord10	C:\BigDb\cabO\cs10	C:\BigDb\cabO\misc10	Unallocated
		185	C:\BigDb\cabO\ord11	C:\BigDb\cabO\cs11	C:\BigDb\cabO\misc11	Unallocated
		186	C:\BigDb\cabO\ord12	C:\BigDb\cabO\cs12	C:\BigDb\cabO\misc12	Unallocated

* Partition size is 207.57 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 749,839

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	13.27	0.45
Payment	0.29	11.16	0.43
Order Status	0.30	7.83	0.45
Delivery (interactive)	0.23	3.89	0.37
Delivery (deferred)	0.13	7.70	0.17
Stock-Level	0.44	5.00	0.67
Menu	0.24	3.91	0.37

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	10.07	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

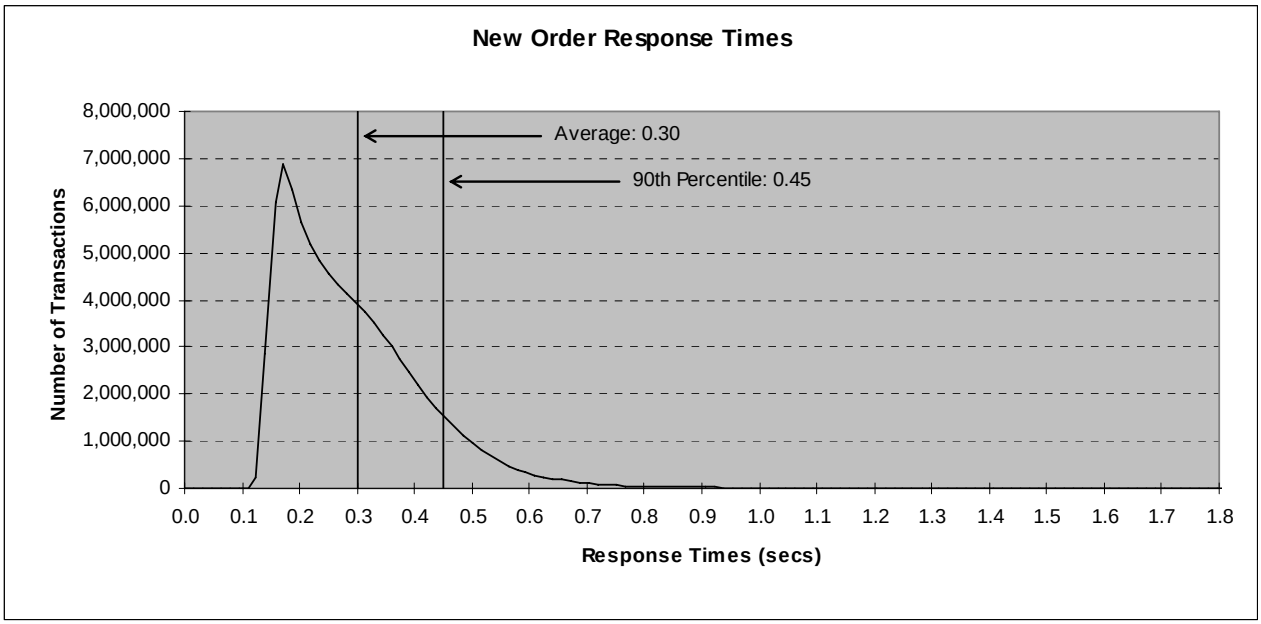


Figure 5.2: Payment Response Time Distribution

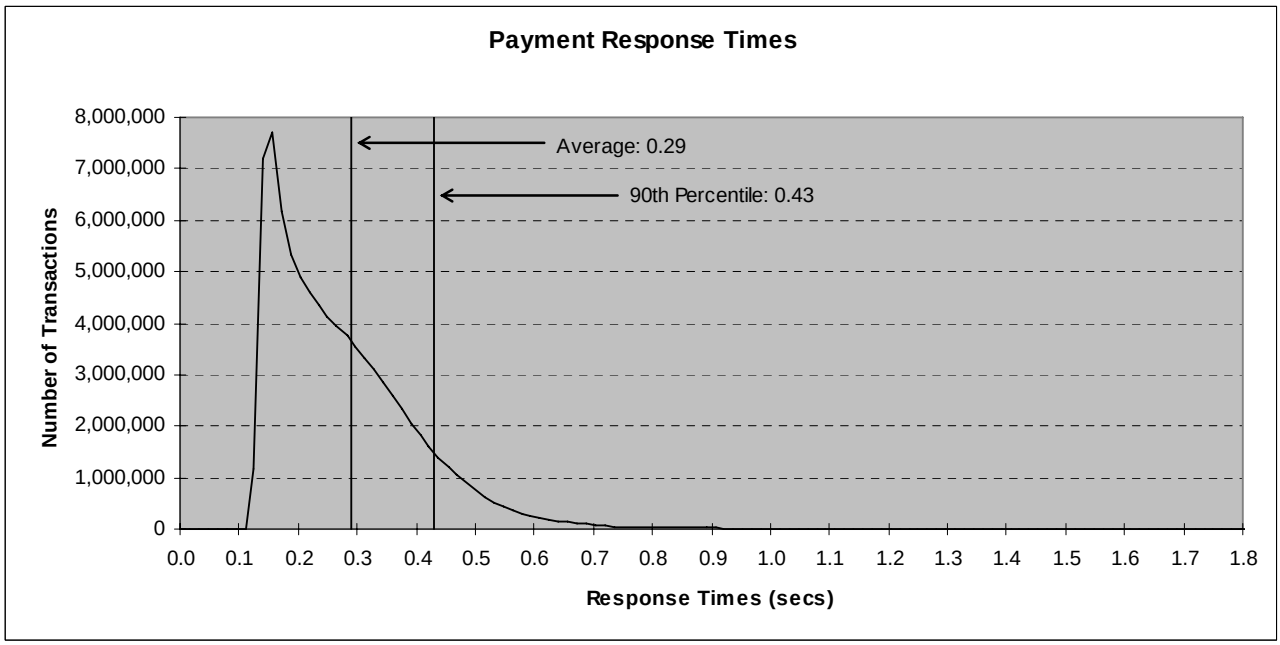


Figure 5.3: Order Status Response Time Distribution

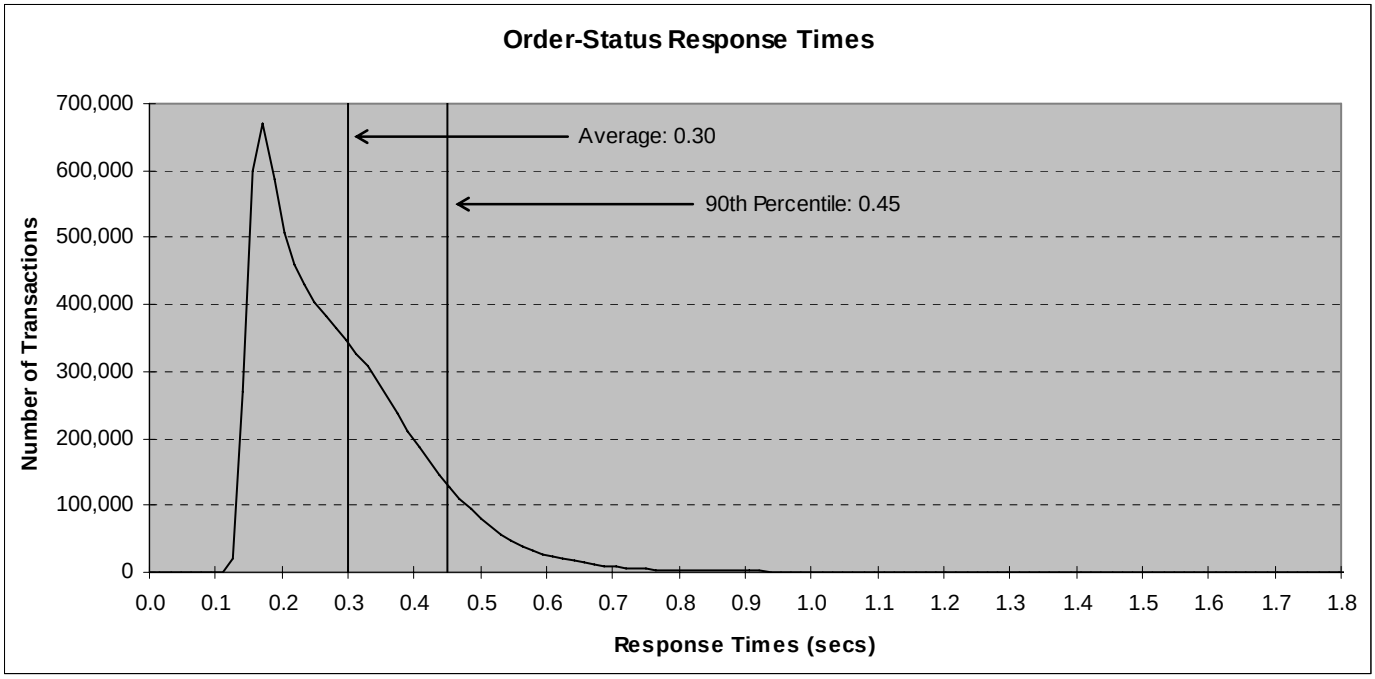


Figure 5.4: Delivery Response Time Distribution

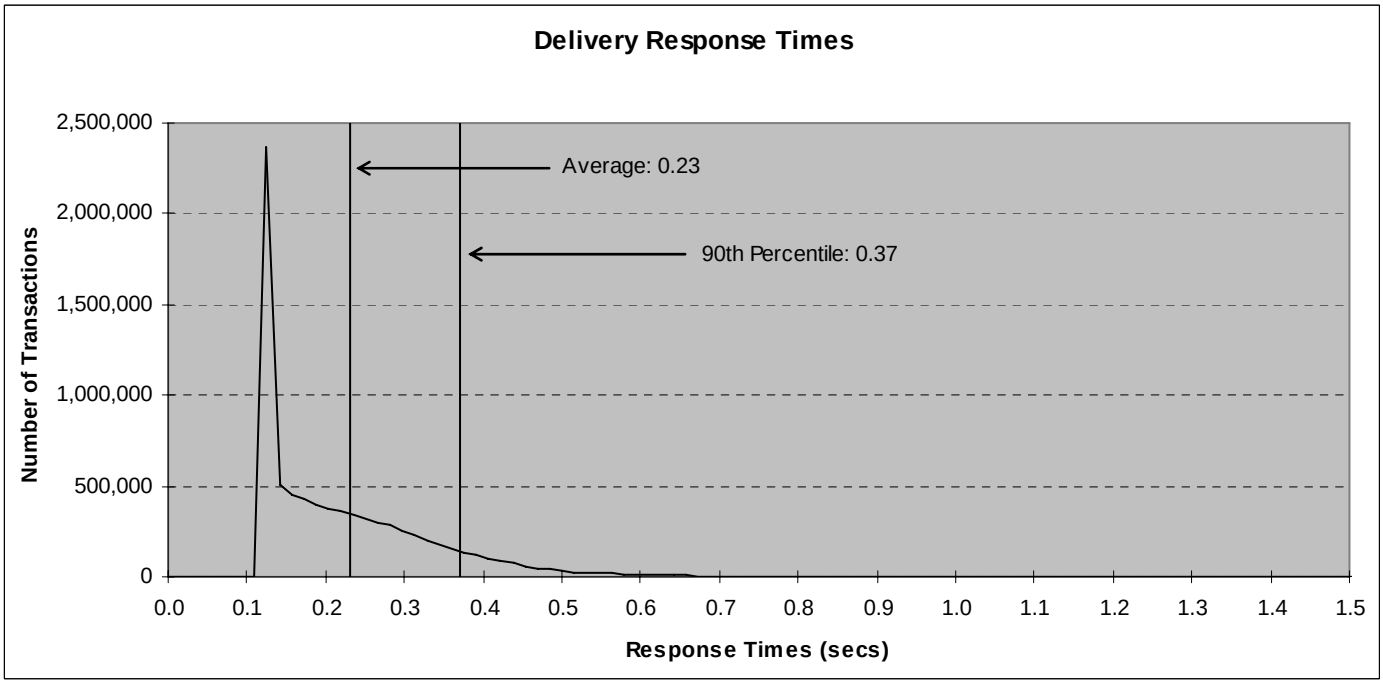
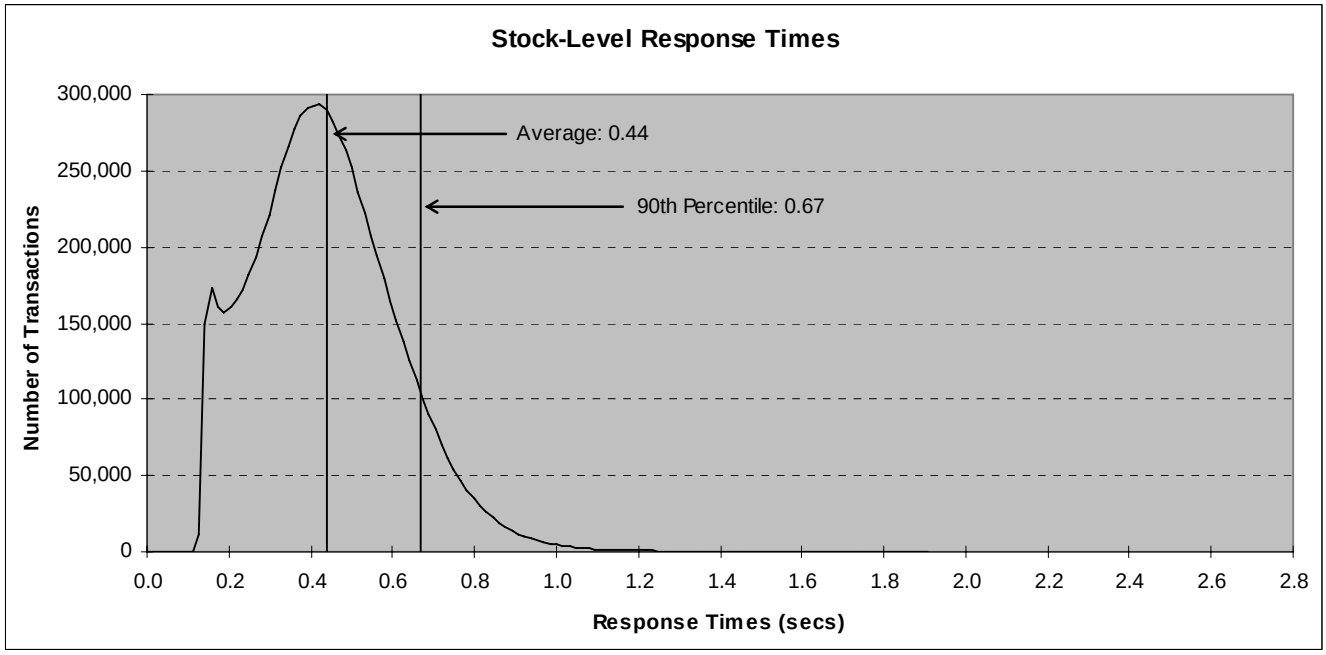


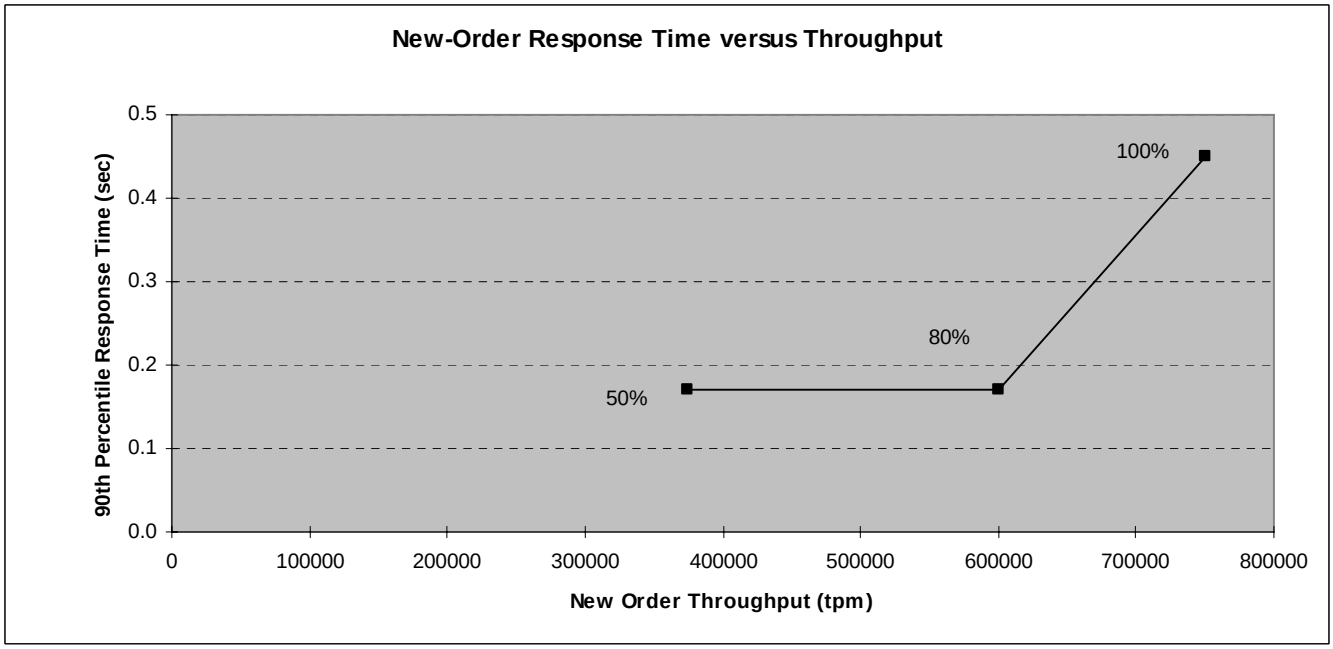
Figure 5.5: Stock Level Response Time Distribution



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)

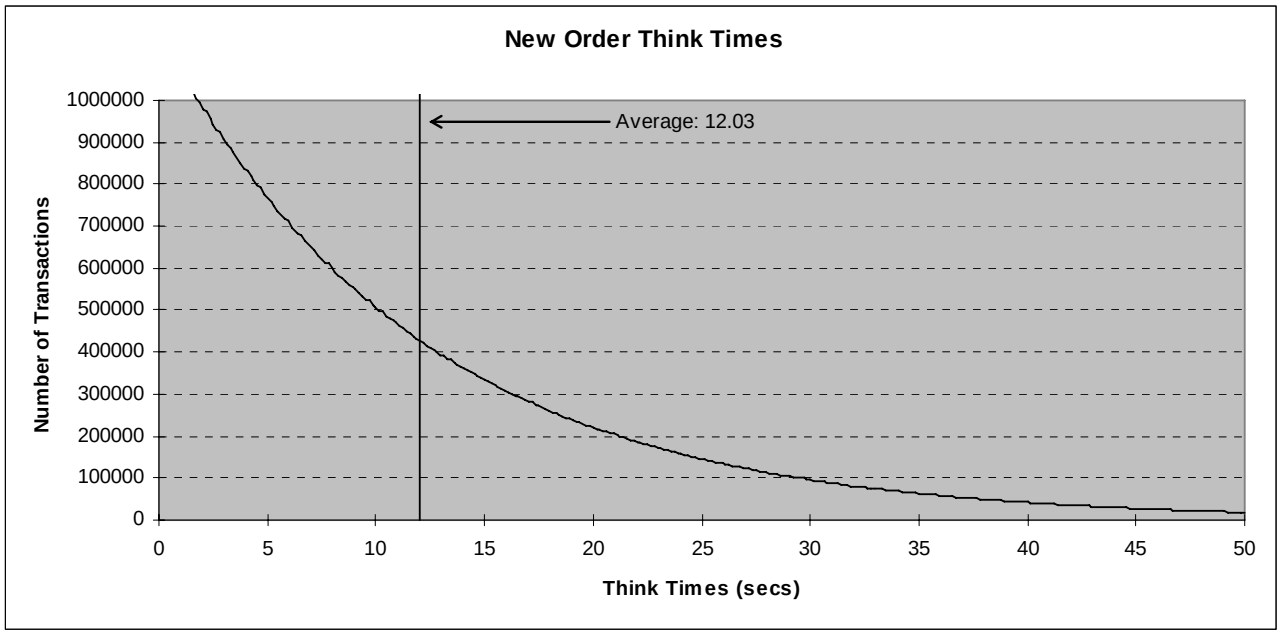
Figure 5.6: New Order Response Time versus Throughput



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)

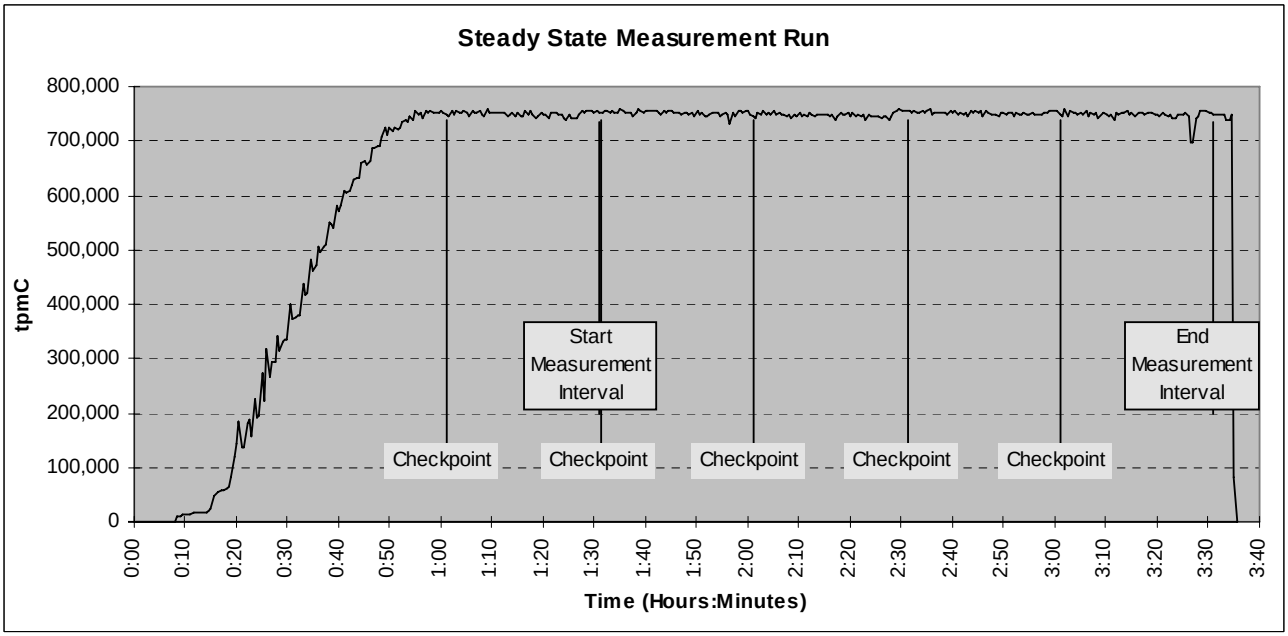
Figure 5.7: New Order Think Time Distribution



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.

Microsoft SQL Server 2005 Enterprise Edition 64-bit Service Pack 1 was configured to utilize "software NUMA", a feature that allows network connections to be affined to specific groups of CPUs. SQL Server was configured with 9 soft-NUMA nodes. 7 of these nodes were configured with 8 CPUs each and one was configured with 7 CPUs. The 9th soft-NUMA node was configured with one CPU and used for the checkpoint process. A utility doing continuous checkpoints of 1770 seconds (29 minutes, 30 seconds) was started on one of the clients after steady state was reached with a connection port that connected to the 9th Numa Node. This allowed the main checkpoint process to run on that single processor, which directed the processing of the checkpoint tasks that SQL assigned to each of the other 8 soft-NUMA Nodes.

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

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	85.01%
	Remote warehouse	14.99%
	Non-primary key access	60.00%
Order Status	Non-primary key access	60.01%
Delivery	Skipped transactions (Interactive)	0
	Skipped transaction counts (Deferred)	0
	Skipped District counts (Deferred)	0
Transaction Mix	New Order	44.92%
	Payment	43.03%
	Order-Status	4.01%
	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 26 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 29.5 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	1:30:49	3:30:49	7200
1st Checkpoint	1:31:15	2:00:48	1773
2nd Checkpoint	2:01:15	2:30:47	1772
3rd Checkpoint	2:31:15	3:00:47	1772
4th Checkpoint	3:01:15	3:30:47	1772

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 eight (8) dual-port VI 4 gigabit-per-second LAN adapters. Each was direct connected to a VI adapter in the eight (8) 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. Clause 7: Pricing

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 amoumt 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, 16 processor
- One (1) Microsoft SQL Server 2005 Enterprise x64 Edition license, 16 processor
- Eight (8) 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. Clause 9 : Audit

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/one Enterprise Server (16P) 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

May 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 (16P)
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 (16P)				
CPU's	Memory	Disks	90% Response	TpmC
16 Intel® Dual-Core Xeon® Processor 7041 @ 3.0 GHz	Main: 512 GB	1246 @ 18GB 14 @ 36GB 24@73GB 26 @ 146GB 2@ 36GB (OS)	**0.45 sec**	**749,839**
8 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.

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- The database was properly scaled and populated with 62,000 warehouses, of which 59,960 were active during the Measured Interval. I verified that the unused warehouses had their respective warehouse rows deleted.
- The ACID properties were successfully demonstrated.
- The durability data loss and log loss tests were demonstrated on a subset of the SUT with 7,040 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.
- Measurement cycle times included a 0.1 second menu and a 0.1 second response time delays for emulated Web browsers.
- There were 599,600 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 – see Auditor's Notes.

Auditor Notes:

The tested system had 1246 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.

The tested system had four ES3120L clients with dual 3.4GHz processors with 1MB cache, 800MHz FSB and four with dual 3.4GHz processors with 2MB cache, 800MHz FSB. The pricing uses eight ES3120L clients, each with dual 3.4GHz processors with 2MB cache, 800MHz FSB because clients with processors with 1MB cache are no longer orderable. This substitution is compliant with current substitution rules - TAB ID 401.

Sincerely,

Lorna Livingtree

Lorna Livingtree
Auditor

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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 ERRTXT_CMD_UNKNOWN       "Unrecognized Command"
#define ERR_ALREADY_LOGGEDIN     -11
#define ERRTXT_ALREADY_LOGGEDIN  "Already Logged In"
#define ERR_TERMID               -12
#define ERRTXT_TERMID            "TermId or SyncId in Error"
#define ERR_FORM_UNKNOWN         -13
#define ERRTXT_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
   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
   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 * szTMInitError =
   HTTPHdr "<HTML>"
   "<HEAD><TITLE>Welcome To TPC-C</TITLE></HEAD><BODY>"
   "<B>TPCC Extension Error (TMInit 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 APIENTRY 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 (TMInit(&pTPCC->tsTMon))
      {
         wsprintf(pDiag,"ThrAtt(%ld): TMInit %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,szTMInitError,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 = TPCCSENDEND;  // 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
   {
     FormatLogin(pOut,pTPCC->ErrTxt);
     return(TRUE);
   };
   if (sWId < 1)
   {
      wsprintf(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)
   {
      wsprintf(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)
   {
      wsprintf(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:
         wsprintf(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);
   }while ((FAILED(hr)) && (retCnt++ < INIT_RETRY));

   if (FAILED(hr))
   {
      pTPCC->iStatusId = ERR_TM_INTERFACE;
      wsprintf(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)
   {
      wsprintf(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 += wsprintf(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 += wsprintf(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 += wsprintf(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>                                  Payment<BR>"
      "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 += wsprintf(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)
   {
      wsprintf(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;
```

```
      wsprintf(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)
   {
      wsprintf(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 += wsprintf(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\">"
      "<INPUT TYPE=\"hidden\" NAME=\"TERMID\" 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>"
      " <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 += wsprintf(pOut + iInx,
      "<PRE>                                  Payment<BR>"
      "Date:<BR><BR>"
#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>"
#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=\"TERMID\" VALUE=\"%d\">"
      "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" 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=\"TERMID\" VALUE=\"%d\">"
      "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" 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 (TMInit(pTMon))
{
   wsprintf(szDiag,"DoDelivery(%ld): TMInit %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,%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 sDId;                         // 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 TMInit(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: TMInit
//
//    Result:
//       FALSE    Initialization completed successfully
//       TRUE     Initialization failed
//
//=========================================================================
BOOL TMInit(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);
};   // TMInit

//=========================================================================
//
// 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: TimebElaspsed
//
//=====================================================================
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: TimebAddMillisecs
//
//=========================================================================
VOID TimebAddMillisecs(struct _timeb * p_tb, TMILLI tmMillisecs)
{
        time_t ttSecs;
        unsigned short utm;

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

        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 DEFAULTEVENTLOG 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 _stdcall NewOrder
            (
               [in, out] int * iSize,
               [in, out, size_is(,*iSize)] char ** pTData
            );

         HRESULT _stdcall Payment
            (
               [in, out] int * iSize,
               [in, out, size_is(,*iSize)] char ** pTData
            );

         HRESULT _stdcall Delivery
            (
               [in] int * iSize,
               [in, out, size_is(,*iSize)] char ** pTData
            );

         HRESULT _stdcall StockLevel
            (
               [in, out] int* iSize,
               [in, out, size_is(,*iSize)] char ** pTData
            );

         HRESULT _stdcall 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 OSData;
         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;
      SQLUINTEGER m_BindOffset;
      SQLUINTEGER 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,&m_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
      wcscpy(&szSqlTemplate[29 + pnod->o_ol_cnt * 6],L")}");
      wcscpy(&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 commited.");
         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,
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```
            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 commited.");
         return(S_OK);
      };
      if (m_iTPRslt == SVCERR_NOCUSTOMER)
      {
         strcpy(ppd->execution_status,"Invalid Customer id,name.");
         return(S_OK);
      };
      if (m_iTPRslt == SVCERR_DEADLOCK)
         wsprintf(ppd->execution_status,"Hit retry max(%d).",m_iMaxRetry);
      else
         strcpy(ppd->execution_status,"DBTranAbort, Check Input Data");
      return(S_OK);
   }
     catch (...)
     {
      wsprintf(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)
   {
      wsprintf(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
      )
      {
         wsprintf(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)
      {
         wsprintf(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))
               {
            wsprintf(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)
         {
            wsprintf(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 commited.");
         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 commited.");
         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));
      swprintf(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);
   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);
   };

   char szTimeStr[64];
   TimeStamp(szTimeStr);

   //if (bError &&(fp != NULL))
   if ((fp != NULL))
   {
         fprintf(fp, "%s (%ld) %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\BackupH1\backupH1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupI1\backupI1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupJ1\backupJ1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupK1\backupK1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupL1\backupL1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupM1\backupM1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupN1\backupN1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupO1\backupO1.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\BackupH2\backupH2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupI2\backupI2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupJ2\backupJ2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupK2\backupK2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupL2\backupL2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupM2\backupM2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupN2\backupN2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupO2\backupO2.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\BackupH3\backupH3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupI3\backupI3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupJ3\backupJ3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupK3\backupK3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupL3\backupL3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupM3\backupM3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupN3\backupN3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupO3\backupO3.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",
    DISK = "C:\Bigdb\dbbackups\BackupH4\backupH4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupI4\backupI4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupJ4\backupJ4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupK4\backupK4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupL4\backupL4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupM4\backupM4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupN4\backupN4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupO4\backupO4.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\BackupH1\backupH1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupI1\backupI1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupJ1\backupJ1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupK1\backupK1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupL1\backupL1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupM1\backupM1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupN1\backupN1.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupO1\backupO1.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\BackupH2\backupH2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupI2\backupI2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupJ2\backupJ2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupK2\backupK2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupL2\backupL2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupM2\backupM2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupN2\backupN2.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupO2\backupO2.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\BackupH3\backupH3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupI3\backupI3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupJ3\backupJ3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupK3\backupK3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupL3\backupL3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupM3\backupM3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupN3\backupN3.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupO3\backupO3.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",
    DISK = "C:\Bigdb\dbbackups\BackupH4\backupH4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupI4\backupI4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupJ4\backupJ4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupK4\backupK4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupL4\backupL4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupM4\backupM4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupN4\backupN4.dmp",
    DISK = "C:\Bigdb\dbbackups\BackupO4\backupO4.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     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscB1,
    FILENAME = "C:\Bigdb\cabB\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscC1,
    FILENAME = "C:\Bigdb\cabC\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscD1,
    FILENAME = "C:\Bigdb\cabD\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscE1,
    FILENAME = "C:\Bigdb\cabE\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscF1,
    FILENAME = "C:\Bigdb\cabF\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscG1,
    FILENAME = "C:\Bigdb\cabG\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscH1,
    FILENAME = "C:\Bigdb\cabH\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscI1,
    FILENAME = "C:\Bigdb\cabI\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscJ1,
    FILENAME = "C:\Bigdb\cabJ\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscK1,
    FILENAME = "C:\Bigdb\cabK\misc1\",
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(   NAME = MSSQL_miscN1,
    FILENAME = "C:\Bigdb\cabN\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscO1,
    FILENAME = "C:\Bigdb\cabO\misc1\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabA\misc2\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscB2,
    FILENAME = "C:\Bigdb\cabB\misc2\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscC2,
    FILENAME = "C:\Bigdb\cabC\misc2\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscD2,
    FILENAME = "C:\Bigdb\cabD\misc2\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabE\misc2\",
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(   NAME = MSSQL_miscF2,
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    FILENAME = "C:\Bigdb\cabO\misc2\",
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    FILENAME = "C:\Bigdb\cabD\misc3\",
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    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabF\misc3\",
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(   NAME = MSSQL_miscG3,
    FILENAME = "C:\Bigdb\cabG\misc3\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscH3,
    FILENAME = "C:\Bigdb\cabH\misc3\",
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(   NAME = MSSQL_miscI3,
    FILENAME = "C:\Bigdb\cabI\misc3\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscJ3,
    FILENAME = "C:\Bigdb\cabJ\misc3\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscK3,
    FILENAME = "C:\Bigdb\cabK\misc3\",
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(   NAME = MSSQL_miscL3,
    FILENAME = "C:\Bigdb\cabL\misc3\",
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    FILENAME = "C:\Bigdb\cabO\misc3\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabB\misc4\",
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    FILENAME = "C:\Bigdb\cabC\misc4\",
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    FILENAME = "C:\Bigdb\cabD\misc4\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabE\misc4\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabF\misc4\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabG\misc4\",
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    FILENAME = "C:\Bigdb\cabH\misc4\",
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(   NAME = MSSQL_miscJ4,
    FILENAME = "C:\Bigdb\cabJ\misc4\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscK4,
    FILENAME = "C:\Bigdb\cabK\misc4\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscL4,
    FILENAME = "C:\Bigdb\cabL\misc4\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscM4,
    FILENAME = "C:\Bigdb\cabM\misc4\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscN4,
    FILENAME = "C:\Bigdb\cabN\misc4\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscO4,
    FILENAME = "C:\Bigdb\cabO\misc4\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscA5,
    FILENAME = "C:\Bigdb\cabA\misc5\",
```

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    FILENAME = "C:\Bigdb\cabB\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabC\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabD\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscE5,
    FILENAME = "C:\Bigdb\cabE\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscF5,
    FILENAME = "C:\Bigdb\cabF\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabG\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscH5,
    FILENAME = "C:\Bigdb\cabH\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscI5,
    FILENAME = "C:\Bigdb\cabI\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscJ5,
    FILENAME = "C:\Bigdb\cabJ\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscK5,
    FILENAME = "C:\Bigdb\cabK\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
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    FILENAME = "C:\Bigdb\cabL\misc5\",
    SIZE     = 7600MB,   FILEGROWTH = 0),
(   NAME = MSSQL_miscM5,
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(   NAME = MSSQL_ordN12,
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(   NAME = MSSQL_ordO12,
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(   NAME = MSSQL_ordB12,
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(   NAME = MSSQL_ordC12,
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```
LOG ON
(   NAME     = MSSQL_tpcc_log1,
    FILENAME = "C:\Bigdb\dblogs\tpcclog1\",
    SIZE = 742070MB, FILEGROWTH = 0),
(   NAME     = MSSQL_tpcc_log2,
    FILENAME = "C:\Bigdb\dblogs\tpcclog2\",
    SIZE = 1636880MB, 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\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\backupH1\backupH1.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupI1\backupI1.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupJ1\backupJ1.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupK1\backupK1.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupL1\backupL1.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupM1\backupM1.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupN1\backupN1.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupO1\backupO1.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\backupH2\backupH2.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupI2\backupI2.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupJ2\backupJ2.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupK2\backupK2.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupL2\backupL2.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupM2\backupM2.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupN2\backupN2.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupO2\backupO2.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\backupH3\backupH3.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupI3\backupI3.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupJ3\backupJ3.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupK3\backupK3.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupL3\backupL3.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupM3\backupM3.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupN3\backupN3.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupO3\backupO3.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',
    DISK = 'C:\Bigdb\dbbackups\backupH4\backupH4.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupI4\backupI4.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupJ4\backupJ4.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupK4\backupK4.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupL4\backupL4.dmp',
```

```
    DISK = 'C:\Bigdb\dbbackups\backupM4\backupM4.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupN4\backupN4.dmp',
    DISK = 'C:\Bigdb\dbbackups\backupO4\backupO4.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 = tempdbA12,
  FILENAME = "C:\Bigdb\dbbackups\backupA12\tempdbA12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbB12,
  FILENAME = "C:\Bigdb\dbbackups\backupB12\tempdbB12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbC12,
  FILENAME = "C:\Bigdb\dbbackups\backupC12\tempdbC12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbD12,
  FILENAME = "C:\Bigdb\dbbackups\backupD12\tempdbD12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbE12,
  FILENAME = "C:\Bigdb\dbbackups\backupE12\tempdbE12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbF12,
  FILENAME = "C:\Bigdb\dbbackups\backupF12\tempdbF12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbG12,
  FILENAME = "C:\Bigdb\dbbackups\backupG12\tempdbG12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbH12,
  FILENAME = "C:\Bigdb\dbbackups\backupH12\tempdbH12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbI12,
  FILENAME = "C:\Bigdb\dbbackups\backupI12\tempdbI12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbJ12,
  FILENAME = "C:\Bigdb\dbbackups\backupJ12\tempdbJ12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbK12,
  FILENAME = "C:\Bigdb\dbbackups\backupK12\tempdbK12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbL12,
  FILENAME = "C:\Bigdb\dbbackups\backupL12\tempdbL12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbM12,
  FILENAME = "C:\Bigdb\dbbackups\backupM12\tempdbM12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB),
( NAME = tempdbN12,
  FILENAME = "C:\Bigdb\dbbackups\backupN12\tempdbN12.mdf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 MB)
go
ALTER database tempdb
add log file
( NAME = tempdblogO12,
  FILENAME = "C:\Bigdb\dbbackups\backupO12\tempdblogO12.ldf",
  SIZE = 15000 MB,
  FILEGROWTH = 10%,
  MAXSIZE = 81050 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 updlock)
        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
```

NEWORD.SQL

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

SET ANSI_NULLS ON
GO

USE tpcc
GO

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

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


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

BEGIN

BEGIN TRANSACTION n

-------------------------------------------------------------
```

```
--  get district tax and next availible 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   = s_quantity - @li_qty +
                                    CASE WHEN (s_quantity - @li_qty < 10)
THEN 91 ELSE 0 END,
                s_order_cnt     = s_order_cnt + 1,
                s_remote_cnt    = s_remote_cnt +
                                    CASE WHEN (@li_s_w_id = @w_id) THEN 0
ELSE 1 END,
                @s_data         = s_data,
                @s_dist         = CASE @d_id
                                    WHEN 1  THEN s_dist_01
                                    WHEN 2  THEN s_dist_02
                                    WHEN 3  THEN s_dist_03
                                    WHEN 4  THEN s_dist_04
                                    WHEN 5  THEN s_dist_05
                                    WHEN 6  THEN s_dist_06
                                    WHEN 7  THEN s_dist_07
                                    WHEN 8  THEN s_dist_08
                                    WHEN 9  THEN s_dist_09
                                    WHEN 10 THEN s_dist_10
                                  END
        WHERE   s_i_id          = @li_id AND
                s_w_id          = @li_s_w_id

-------------------------------------------------------------------
--  if there actually is a stock (and item) with these ids, go to work
-------------------------------------------------------------------
        IF (@@rowcount > 0)
        BEGIN
-----------------------------------------------------------
```

```
--  insert order_line data (using data from item and stock)
-------------------------------------------------------------
            INSERT INTO order_line VALUES(  @o_id,
                                            @d_id,
                                            @w_id,
                                            @li_no,
                                            @li_id,
                                            'dec 31, 1899',
                                            @i_price * @li_qty,
                                            @li_s_w_id,
                                            @li_qty,
                                            @s_dist)

---------------------------------
--  send line-item data to client
---------------------------------
            SELECT  @i_name,
                    @s_quantity,
                    b_g = CASE  WHEN (   (patindex('%ORIGINAL%',@i_data) >
0) AND

(patindex('%ORIGINAL%',@s_data) > 0) )
                                                  THEN 'B' ELSE 'G' END,
                    @i_price,
                    @i_price * @li_qty
               END
               ELSE
               BEGIN
-----------------------------------------------------------
--  no item (or stock) found - triggers rollback condition

-----------------------------------------------------------
            SELECT  '',0,'',0,0
            SELECT  @commit_flag    = 0
               END
        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

-----------------------------------------------------------------
--                                                             --
--  File:   TPCC_NEWORDER_NEW.SQL                              --
--          Microsoft TPC-C Benchmark Kit Ver. 4.63            --
--          Copyright Microsoft, 2005                          --
--                                                             --
--          This acid stored procedure implements the neworder --
--          transaction.  It outputs timestamps at the         --
```

```
--          beginning of the transaction, before the commit     --
--          delay, and after the commit.                        --
--                                                              --
------------------------------------------------------------------
SET QUOTED_IDENTIFIER OFF
GO
SET ANSI_NULLS OFF
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
-- 1q 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 PROCEDURE    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 availible 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.i_price * info.ol_qty,
               info.w_id,
            info.ol_qty,
            CASE    @d_id   WHEN 1  THEN inserted.s_dist_01
                            WHEN 2  THEN inserted.s_dist_02
                            WHEN 3  THEN inserted.s_dist_03
                            WHEN 4  THEN inserted.s_dist_04
                            WHEN 5  THEN inserted.s_dist_05
                            WHEN 6  THEN inserted.s_dist_06
                            WHEN 7  THEN inserted.s_dist_07
```

```
                        WHEN 8  THEN inserted.s_dist_08
                        WHEN 9  THEN inserted.s_dist_09
                        WHEN 10 THEN inserted.s_dist_10
            END
    INTO    order_line

    OUTPUT  info.i_name,inserted.s_quantity,
            CASE WHEN ((charindex("ORIGINAL",info.i_data) > 0) AND
                       (charindex("ORIGINAL",inserted.s_data) > 0) )
                 THEN "B" ELSE "G" END,
            info.i_price,
            info.i_price*info.ol_qty
    FROM    stock INNER JOIN
            (SELECT iid,
                    wid,
                       lino,
                    ol_qty,
                    i_price,
                    i_name,
                    i_data
             FROM   (SELECT iid,
                            wid,
                            lino,
                            qty,
                                   row_number() OVER (PARTITION BY iid,wid
ORDER BY iid,wid)
                     FROM   (SELECT @i_id1,@s_w_id1,1,@ol_qty1      UNION
ALL
                             SELECT @i_id2,@s_w_id2,2,@ol_qty2      UNION
ALL
                             SELECT @i_id3,@s_w_id3,3,@ol_qty3      UNION
ALL
                             SELECT @i_id4,@s_w_id4,4,@ol_qty4      UNION
ALL
                             SELECT @i_id5,@s_w_id5,5,@ol_qty5      UNION
ALL
                             SELECT @i_id6,@s_w_id6,6,@ol_qty6      UNION
ALL
                             SELECT @i_id7,@s_w_id7,7,@ol_qty7      UNION
ALL
                             SELECT @i_id8,@s_w_id8,8,@ol_qty8      UNION
ALL
                             SELECT @i_id9,@s_w_id9,9,@ol_qty9      UNION
ALL
                             SELECT @i_id10,@s_w_id10,10,@ol_qty10  UNION
ALL
                             SELECT @i_id11,@s_w_id11,11,@ol_qty11  UNION
ALL
                             SELECT @i_id12,@s_w_id12,12,@ol_qty12  UNION
ALL
                             SELECT @i_id13,@s_w_id13,13,@ol_qty13  UNION
ALL
                             SELECT @i_id14,@s_w_id14,14,@ol_qty14  UNION
ALL
                             SELECT @i_id15,@s_w_id15,15,@ol_qty15) AS
uo1(iid,wid,lino,qty)
                                ) AS o1(iid,wid,lino,ol_qty,rownum)
                        INNER JOIN
                        item (repeatableread) ON i_id   = iid  AND --
filters out invalid items
                                                          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
```

PAYMENT.SQL

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

SET ANSI_NULLS ON
GO

USE tpcc
GO

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

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

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

SELECT  @screen_data    = ""

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

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


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

        SET     rowcount @val

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

        SET     rowcount 0
    END

    --  get customer info and update balances
    UPDATE  customer
    SET     @c_balance      = c_balance      = c_balance - @h_amount,
            c_payment_cnt   = c_payment_cnt + 1,
            c_ytd_payment   = c_ytd_payment + @h_amount,
            @c_first        = c_first,
            @c_middle       = c_middle,
            @c_last         = c_last,
            @c_street_1     = c_street_1,
            @c_street_2     = c_street_2,
            @c_city         = c_city,
```

```
        @c_state        = c_state,
        @c_zip          = c_zip,
        @c_phone        = c_phone,
        @c_credit       = c_credit,
        @c_credit_lim   = c_credit_lim,
        @c_discount     = c_discount,
        @c_since        = c_since,
        @c_id_local     = c_id
WHERE   c_id            = @c_id AND
        c_w_id          = @c_w_id AND
        c_d_id          = @c_d_id

--  if customer has bad credit get some more info
IF (@c_credit = "BC")
BEGIN
    --     compute new info
    SELECT  @c_data =   convert(char(5),@c_id) +
                        convert(char(4),@c_d_id) +
                        convert(char(5),@c_w_id) +
                        convert(char(4),@d_id) +
                        convert(char(5),@w_id) +
                        convert(char(19),@h_amount)

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

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

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

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

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

    COMMIT TRANSACTION p

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

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO
```

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,
                        @threshhold     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  < @threshhold
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, TPCCLDR_ARGS *pargs)
```

```
{
    int        i;
    char       *ptr;

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

    /* init args struct with some useful values */
    pargs->server                    =  SERVER;
    pargs->user                      =  USER;
    pargs->password                  =  PASSWORD;
    pargs->database                  =  DATABASE;
    pargs->batch                     =  BATCH;
    pargs->num_warehouses            =  UNDEF;
        pargs->tables_all                    =  TRUE;
        pargs->table_item                    =  FALSE;
        pargs->table_warehouse       =  FALSE;
        pargs->table_customer        =  FALSE;
        pargs->table_orders                  =  FALSE;
        pargs->loader_res_file               =  LOADER_RES_FILE;
        pargs->log_path                          =  LOADER_LOG_PATH;
        pargs->pack_size                     =  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':
                           {
                                   pargs->tables_all = FALSE;
                                   if (strcmp(ptr+2,"item") == 0)
                                           pargs->table_item = TRUE;
                                   else if (strcmp(ptr+2,"warehouse")
== 0)
                                           pargs->table_warehouse =
TRUE;
                                   else if (strcmp(ptr+2,"customer") ==
0)
                                           pargs->table_customer = TRUE;
                                   else if (strcmp(ptr+2,"orders") ==
0)
                                           pargs->table_orders = TRUE;
                                   else
                                   {
                                   printf("\nUnrecognized command");
                                   GetArgsLoaderUsage();
                                   exit(1);
                                   }

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

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

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

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

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

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

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

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

    /* check for required args */
    if (pargs->num_warehouses == UNDEF )
    {
                printf("Number of Warehouses is required\n");
                exit(-2);
    }

    return;
}


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

void GetArgsLoaderUsage()
{

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


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

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

    exit(0);
}
```

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

//Orginal 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[] =
"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
        static  int    chArrayMax = 61;

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

        len= RandomNumber(minLen, maxLen);

        for (i=0; i<len; i++)
                str[i] = chArray[RandomNumber(0,chArrayMax)];
        if (len < padLen)
                memset(str+len, ' ', padLen - len);
        str[padLen] = 0;
    return padLen;
}



//=========================================================================
//
// Function name: MakeOriginalAlphaString
//
//=========================================================================
int MakeOriginalAlphaString(int  x,
                                                        int  y,
                                                           int  z,
                                                        char *str,
                                                    int  percent)
{
    int        len;
    int        val;
    int        start;

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

    // verify prercentage is valid
    if ((percent < 0) || (percent > 100))
    {
                printf("MakeOrigianlAlphaString: 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                24
        #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;
    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];
} 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;

TPCCLDR_ARGS    *aptr, args;

//=====================================================================
//
// Function name: main
//
//=====================================================================
int main(int  argc, char **argv)
{

        DWORD           dwThreadID[MAX_MAIN_THREADS];
        HANDLE          hThread[MAX_MAIN_THREADS];
        FILE            *fLoader;
        char            buffer[255];
        int                             i;

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

    printf("\n*****************************************************");
        printf("\n*                                                   *");
        printf("\n*  Microsoft SQL Server                             *");
        printf("\n*                                                   *");
```

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

    // process command line arguments
    aptr = &args;
    GetArgsLoader(argc, argv, aptr);

        printf("Build interface is ODBC.\n");

        if (aptr->build_index == 0)
                printf("Data load only - no index creation.\n");
        else
                printf("Data load and index creation.\n");

        if (aptr->index_order == 0)
                printf("Clustered indexes will be created after bulk
load.\n");
        else
                printf("Clustered indexes will be created before bulk
load.\n");

        // set database scale values
        if (aptr->scale_down == 1)
        {
                printf("*** Scaled Down Database ***\n");
                max_items = MAXITEMS_SCALE_DOWN;
                customers_per_district = CUSTOMERS_SCALE_DOWN;
                orders_per_district = ORDERS_SCALE_DOWN;
                first_new_order = 0;
                last_new_order  = 30;
        }
        else
        {
                max_items = MAXITEMS;
                customers_per_district = CUSTOMERS_PER_DISTRICT;
                orders_per_district = ORDERS_PER_DISTRICT;
                first_new_order = 2100;
                last_new_order  = 3000;
        }

        // open connections to SQL Server
        OpenConnections();

        // open file for loader results
        fLoader = fopen(aptr->loader_res_file, "w");


    if (fLoader == NULL)
        {
                printf("Error, loader result file open failed.");
                exit(-1);
        }

    // start loading data
    sprintf(buffer,"TPC-C load started for %ld warehouses.\n",aptr-
>num_warehouses);
```

```
        if      (aptr->scale_down == 1)
        {
                sprintf(buffer,"SCALED DOWN DATABASE.\n");
        }

        printf("%s",buffer);
        fprintf(fLoader,"%s",buffer);

        main_time_start = (TimeNow() / MILLI);

        // start parallel load threads
        if (aptr->tables_all || aptr->table_item)
        {
                fprintf(fLoader, "\nStarting loader threads for: item\n");

                hThread[0] = CreateThread(NULL,
                                                                0,
(LPTHREAD_START_ROUTINE) LoadItem,
                                                                NULL,
                                                                0,
&dwThreadID[0]);

                if (hThread[0] == NULL)
                {
                        printf("Error, failed in creating creating thread =
0.\n");
                        exit(-1);
                }
        }

        if (aptr->tables_all || aptr->table_warehouse)
        {
                fprintf(fLoader, "Starting loader threads for:
warehouse\n");

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

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

        if (aptr->tables_all || aptr->table_customer)
        {
                fprintf(fLoader, "Starting loader threads for:
customer\n");

                hThread[2] = CreateThread(NULL,
```

```
                                                                0,
(LPTHREAD_START_ROUTINE) LoadCustomer,
                                                                NULL,
                                                                0,
&dwThreadID[2]);
                if (hThread[2] == NULL)
                {
                        printf("Error, failed in creating creating main
thread = 2.\n");
                        exit(-1);
                }
        }

        if (aptr->tables_all || aptr->table_orders)
        {
                fprintf(fLoader, "Starting loader threads for: orders\n");

                hThread[3] = CreateThread(NULL,
                                                                0,
(LPTHREAD_START_ROUTINE) LoadOrders,
                                                                NULL,
                                                                0,
&dwThreadID[3]);
                if (hThread[3] == NULL)
                {
                        printf("Error, failed in creating creating main
thread = 3.\n");
                        exit(-1);
                }
        }

        // Wait for threads to finish...
        for (i=0; i<MAX_MAIN_THREADS; i++)
        {
                if (hThread[i] != NULL)
                {
                        WaitForSingleObject( hThread[i], INFINITE );
                        CloseHandle(hThread[i]);
                        hThread[i] = NULL;
                }
        }

        main_time_end = (TimeNow() / MILLI);

    sprintf(buffer,"\nTPC-C load completed successfully in %ld
minutes.\n",
                        (main_time_end - main_time_start)/60);

        printf("%s",buffer);
        fprintf(fLoader, "%s", buffer);

        fclose(fLoader);

        SQLFreeEnv(henv);

    exit(0);

        return 0;
}


//=====================================================================
//
// Function name: LoadItem
//
//=====================================================================
void LoadItem()
{
    int                 i;
        long            i_id;
        long            i_im_id;
    char                i_name[I_NAME_LEN+1];
    double              i_price;
    char                i_data[I_DATA_LEN+1];
        char            name[20];
        long            time_start;
        RETCODE         rc;
        DBINT           rcint;
        char            bcphint[128];
        char            err_log_path[256];

        // Seed with unique number
        seed(11);

        printf("Loading item table...\n");

        //if build index before load
        if ((aptr->build_index == 1) && (aptr->index_order == 1))
                BuildIndex("idxitmcl");

        InitString(i_name, I_NAME_LEN+1);
        InitString(i_data, I_DATA_LEN+1);

        sprintf(name, "%s..%s", aptr->database, "item");

        strcpy(err_log_path,aptr->log_path);
        strcat(err_log_path,"item.err");
        rc = bcp_init(i_hdbc1, name, NULL, err_log_path , DB_IN);
        if (rc != 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,"whouse.err");
        rc = bcp_init(w_hdbc1, name, NULL, err_log_path, DB_IN);

        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);

        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                sprintf(bcphint, "tablock, order (w_id), ROWS_PER_BATCH =
%d", aptr->num_warehouses);
                rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcphint);
                if (rc != SUCCEED)
                        HandleErrorDBC(w_hdbc1);
        }

        i = 0;
        rc = bcp_bind(w_hdbc1, (BYTE *) &w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
        if (rc != SUCCEED)
```

```
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &w_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &w_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_name, 0, W_NAME_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_street_1, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_street_2, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_city, 0, ADDRESS_LEN, NULL, 0,
0, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_state, 0, STATE_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_zip, 0, ZIP_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);

        time_start = (TimeNow() / MILLI);

        warehouse_rows_loaded = 0;

        for (w_id = (long)aptr->starting_warehouse; w_id <= aptr-
>num_warehouses; w_id++)
        {
                MakeAlphaStringPadded(6,10, W_NAME_LEN, w_name);

                MakeAddress(w_street_1, w_street_2, w_city, w_state,
w_zip);

                w_tax = ((float) RandomNumber(0L,2000L))/10000.00;

                w_ytd = 300000.00;

                rc = bcp_sendrow(w_hdbc1);
                if (rc != SUCCEED)
                        HandleErrorDBC(w_hdbc1);

                warehouse_rows_loaded++;
                CheckForCommit(w_hdbc1, i_hstmt1, warehouse_rows_loaded,
"warehouse", &time_start);
        }

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

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

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

        stock_rows_loaded = 0;
        district_rows_loaded = 0;

        District();
        Stock();
}

//=========================================================================
//
// Function   : District
//
//=========================================================================
void District()
{
    int         i;
        short   d_id;
        long    d_w_id;
    char        d_name[D_NAME_LEN+1];
    char        d_street_1[ADDRESS_LEN+1];
    char        d_street_2[ADDRESS_LEN+1];
    char        d_city[ADDRESS_LEN+1];
    char        d_state[STATE_LEN+1];
    char        d_zip[ZIP_LEN+1];
    double      d_tax;
    double      d_ytd;
        char    name[20];
    long        d_next_o_id;
        long    time_start;
        long    w_id;
        RETCODE rc;
        DBINT   rcint;
        char    bcphint[128];
        char    err_log_path[256];

        // Seed with unique number
        seed(4);

        printf("Loading district table...\n");

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

        InitString(d_name, D_NAME_LEN+1);
        InitAddress(d_street_1, d_street_2, d_city, d_state, d_zip);
        sprintf(name, "%s..%s", aptr->database, "district");

        strcpy(err_log_path,aptr->log_path);
        strcat(err_log_path,"district.err");
        rc = bcp_init(w_hdbc1, name, NULL, err_log_path, DB_IN);
        if (rc != SUCCEED)
```

```
                HandleErrorDBC(w_hdbc1);

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

        i = 0;
        rc = bcp_bind(w_hdbc1, (BYTE *) &d_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &d_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &d_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &d_next_o_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &d_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) d_name, 0, D_NAME_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) d_street_1, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
        if (rc != SUCCEED)
                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 * 100000));
              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 != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_balance, 0, 5, NULL, 0,
SQLCHARACTER, ++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_ytd_payment, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, ++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_payment_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_delivery_cnt,0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0, ADDRESS_LEN, NULL, 0,
0, ++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0, ADDRESS_LEN, NULL,0,0,
++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_city, 0, ADDRESS_LEN, NULL, 0, 0,
++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_state, 0, STATE_LEN, NULL, 0, 0,
++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_zip, 0, ZIP_LEN, NULL, 0, 0, ++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_phone, 0, PHONE_LEN, NULL, 0, 0,
++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
       rc = bcp_bind(c_hdbc1, (BYTE *) &c_since, 0, C_SINCE_LEN, NULL, 0,
SQLCHARACTER, ++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
       rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0, MIDDLE_NAME_LEN,NULL,
0, 0, ++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_data, 0, C_DATA_LEN, NULL, 0, 0,
++i);
       if (rc != SUCCEED)
              HandleErrorDBC(c_hdbc1);

    for (i = 0; i < customers_per_district; i++)
    {
              c_id = customer_buf[i].c_id;
              c_d_id = customer_buf[i].c_d_id;
              c_w_id = customer_buf[i].c_w_id;

              strcpy(c_first, customer_buf[i].c_first);
              strcpy(c_middle, customer_buf[i].c_middle);
              strcpy(c_last, customer_buf[i].c_last);
              strcpy(c_street_1, customer_buf[i].c_street_1);
              strcpy(c_street_2, customer_buf[i].c_street_2);
              strcpy(c_city, customer_buf[i].c_city);
              strcpy(c_state, customer_buf[i].c_state);
              strcpy(c_zip, customer_buf[i].c_zip);
              strcpy(c_phone, customer_buf[i].c_phone);
```

```
                strcpy(c_credit, customer_buf[i].c_credit);

                FormatDate(&c_since);

                c_credit_lim = customer_buf[i].c_credit_lim;
                c_discount = customer_buf[i].c_discount;
                strcpy(c_balance, customer_buf[i].c_balance);
                c_ytd_payment = customer_buf[i].c_ytd_payment;
                c_payment_cnt = customer_buf[i].c_payment_cnt;
                c_delivery_cnt = customer_buf[i].c_delivery_cnt;
                strcpy(c_data, customer_buf[i].c_data);

                // Send data to server
                rc = bcp_sendrow(c_hdbc1);
                if (rc != SUCCEED)
                        HandleErrorDBC(c_hdbc1);

                customer_rows_loaded++;
                CheckForCommit(c_hdbc1, c_hstmt1, customer_rows_loaded,
"customer", &customer_time_start->time_start);
    }
}
//=====================================================================
//
// Function   : LoadHistoryTable
//
//=====================================================================
void LoadHistoryTable(LOADER_TIME_STRUCT *history_time_start)
{
        long            i;
    long        c_id;
    short       c_d_id;
        long            c_w_id;
        double          h_amount;
    char        h_data[H_DATA_LEN+1];
        char            h_date[H_DATE_LEN+1];
        RETCODE         rc;

        i = 0;
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);
        rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);
        rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);
        rc = bcp_bind(c_hdbc2, (BYTE *) &h_date, 0, H_DATE_LEN, NULL, 0,
SQLCHARACTER, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &h_amount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) h_data, 0, H_DATA_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);

    for (i = 0; i < customers_per_district; i++)
    {
                c_id = customer_buf[i].c_id;
                c_d_id = customer_buf[i].c_d_id;
                c_w_id = customer_buf[i].c_w_id;
                h_amount = customer_buf[i].h_amount;
                strcpy(h_data, customer_buf[i].h_data);

                FormatDate(&h_date);

                // send to server
                rc = bcp_sendrow(c_hdbc2);
                if (rc != SUCCEED)
                        HandleErrorDBC(c_hdbc2);

                history_rows_loaded++;
                CheckForCommit(c_hdbc2, c_hstmt2, history_rows_loaded,
"history", &history_time_start->time_start);
    }
}
//=========================================================-
===============
//
// Function   : LoadOrders
//
//=========================================================================
====
void LoadOrders()
{
        LOADER_TIME_STRUCT      orders_time_start;
        LOADER_TIME_STRUCT      new_order_time_start;
        LOADER_TIME_STRUCT      order_line_time_start;
        long                            w_id;
    short                       d_id;
        DWORD                           dwThreadID[MAX_ORDER_THREADS];
        HANDLE                          hThread[MAX_ORDER_THREADS];
        char                            name[20];
        RETCODE                         rc;
        char                            bcphint[128];
        char                            err_log_path_ord[256];
        char                            err_log_path_nord[256];
        char                            err_log_path_ordl[256];

        // seed with unique number
        seed(6);

        printf("Loading orders...\n");
```

```
        // if build index before load...
        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                        BuildIndex("idxordcl");
                        BuildIndex("idxnodcl");
                        BuildIndex("idxodlcl");
        }

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

        rc = bcp_init(o_hdbc1, name, NULL, "logs\\orders.err", DB_IN);
        strcpy(err_log_path_ord,aptr->log_path);
        strcat(err_log_path_ord,"orders.err");
        rc = bcp_init(o_hdbc1, name, NULL, err_log_path_ord, DB_IN);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);

        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                sprintf(bcphint, "tablock, order (o_w_id, o_d_id, o_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 30000));
                rc = bcp_control(o_hdbc1, BCPHINTS, (void*) bcphint);
                if (rc != SUCCEED)
                        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 != SUCCEED)
                HandleErrorDBC(o_hdbc2);

        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                sprintf(bcphint, "tablock, order (no_w_id, no_d_id,
no_o_id), ROWS_PER_BATCH = %u", (aptr->num_warehouses * 9000));
                rc = bcp_control(o_hdbc2, BCPHINTS, (void*) bcphint);
                if (rc != SUCCEED)
                        HandleErrorDBC(o_hdbc2);
        }

        sprintf(name, "%s..%s", aptr->database, "order_line");

        rc = bcp_init(o_hdbc3, name, NULL, "logs\\ordline.err", DB_IN);
        strcpy(err_log_path_ordl,aptr->log_path);
        strcat(err_log_path_ordl,"ordline.err");
        rc = bcp_init(o_hdbc3, name, NULL, err_log_path_ordl, DB_IN);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc3);

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
                sprintf(bcphint, "tablock, order (ol_w_id, ol_d_id,
ol_o_id, ol_number), ROWS_PER_BATCH = %u", (aptr->num_warehouses *
300000));
                rc = bcp_control(o_hdbc3, BCPHINTS, (void*) bcphint);
                if (rc != SUCCEED)
                        HandleErrorDBC(o_hdbc3);
        }

        orders_rows_loaded      = 0;
        new_order_rows_loaded   = 0;
        order_line_rows_loaded  = 0;

        OrdersBufInit();

        orders_time_start.time_start = (TimeNow() / MILLI);
        new_order_time_start.time_start = (TimeNow() / MILLI);
        order_line_time_start.time_start = (TimeNow() / MILLI);

        for (w_id = (long)aptr->starting_warehouse; w_id <= aptr-
>num_warehouses; w_id++)
        {
                for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
                {

                        OrdersBufLoad(d_id, w_id);

                        // start parallel loading threads here...
                        // start Orders table thread
                        printf("...Loading Order Table for: d_id = %d, w_id
= %d\n", d_id, w_id);

                        hThread[0] = CreateThread(NULL,
                                                                        0,
(LPTHREAD_START_ROUTINE) LoadOrdersTable,
&orders_time_start,
                                                                        0,
&dwThreadID[0]);

                        if (hThread[0] == NULL)
                        {
                                printf("Error, failed in creating creating
thread = 0.\n");
                                exit(-1);
                        }

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

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

                        if (hThread[1] == NULL)
```

```
                        {
                                printf("Error, failed in creating creating
thread = 1.\n");
                                exit(-1);
                        }

                        // start Order-Line table thread
                        printf("...Loading Order-Line Table for: d_id = %d,
w_id = %d\n", d_id, w_id);

                        hThread[2] = CreateThread(NULL,
                                                                        0,
(LPTHREAD_START_ROUTINE) LoadOrderLineTable,
&order_line_time_start,
                                                                        0,
&dwThreadID[2]);

                        if (hThread[2] == NULL)
                        {
                                printf("Error, failed in creating creating
thread = 2.\n");
                                exit(-1);
                        }

                        WaitForSingleObject( hThread[0], INFINITE );
                        WaitForSingleObject( hThread[1], INFINITE );
                        WaitForSingleObject( hThread[2], INFINITE );

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

                        if (CloseHandle(hThread[1]) == FALSE)
                        {
                                printf("Error, failed in closing NewOrder
thread handle with errno: %d\n", GetLastError());
                        }

                        if (CloseHandle(hThread[2]) == FALSE)
                        {
                                printf("Error, failed in closing OrderLine
thread handle with errno: %d\n", GetLastError());
                        }
                }
        }

        printf("Finished loading orders.\n");

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

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

                for (j=0;j<=14;j++)
                {
                        orders_buf[i].o_ol[j].ol = 0;
                        orders_buf[i].o_ol[j].ol_i_id = 0;
                        orders_buf[i].o_ol[j].ol_supply_w_id = 0;
                        orders_buf[i].o_ol[j].ol_quantity = 0;
                        orders_buf[i].o_ol[j].ol_amount = 0;
                        strcpy(orders_buf[i].o_ol[j].ol_dist_info,"");
                }
        }
}
//=====================================================================
//
// Function   : OrdersBufLoad
//
// Fills shared buffer for ORDERS, NEWORDER, and ORDERLINE
//
//=====================================================================
void OrdersBufLoad(short d_id, long w_id)
{

        int     cust[ORDERS_PER_DISTRICT+1];
        long    o_id;
        long    ol;

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

        GetPermutation(cust, orders_per_district);

        for (o_id=0;o_id<orders_per_district;o_id++)
        {
                // Generate ORDER and NEW-ORDER data
                orders_buf[o_id].o_d_id = d_id;
                orders_buf[o_id].o_w_id = w_id;
                orders_buf[o_id].o_id = o_id+1;
                orders_buf[o_id].o_c_id = cust[o_id+1];
                orders_buf[o_id].o_ol_cnt = (short)RandomNumber(5L, 15L);

                if (o_id < first_new_order)
                {
                        orders_buf[o_id].o_carrier_id =
(short)RandomNumber(1L, 10L);
```

```
                        orders_buf[o_id].o_all_local  = 1;
                }
                else
                {
                        orders_buf[o_id].o_carrier_id = 0;
                        orders_buf[o_id].o_all_local  = 1;
                }

                for (ol=0; ol<orders_buf[o_id].o_ol_cnt; ol++)
                {

                        orders_buf[o_id].o_ol[ol].ol = ol+1;
                        orders_buf[o_id].o_ol[ol].ol_i_id =
RandomNumber(1L, max_items);
                        orders_buf[o_id].o_ol[ol].ol_supply_w_id = w_id;
                        orders_buf[o_id].o_ol[ol].ol_quantity = 5;
                        MakeAlphaString(24, 24, OL_DIST_INFO_LEN,
&orders_buf[o_id].o_ol[ol].ol_dist_info);

                        // Generate ORDER-LINE data
                        if (o_id < first_new_order)
                        {
                                orders_buf[o_id].o_ol[ol].ol_amount = 0;
                                // Added to insure ol_delivery_d set
properly during load

        FormatDate(&orders_buf[o_id].o_ol[ol].ol_delivery_d);

                        }
                        else
                        {
                                orders_buf[o_id].o_ol[ol].ol_amount =
RandomNumber(1,999999)/100.0;
                                // Added to insure ol_delivery_d set
properly during load
                                // odbc datetime format

        strcpy(orders_buf[o_id].o_ol[ol].ol_delivery_d,"1899-12-31
00:00:00.000");
                        }
                }
        }
}
//=====================================================================
//
// Function   : LoadOrdersTable
//
//=====================================================================
void LoadOrdersTable(LOADER_TIME_STRUCT *orders_time_start)
{
        int         i;
    long        o_id;
        short           o_d_id;
        long            o_w_id;
    long        o_c_id;
    short       o_carrier_id;
    short       o_ol_cnt;
    short       o_all_local;
        char            o_entry_d[O_ENTRY_D_LEN+1];
        RETCODE         rc;
        DBINT           rcint;

        // bind ORDER data
    i = 0;
        rc = bcp_bind(o_hdbc1, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);
        rc = bcp_bind(o_hdbc1, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_carrier_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_ol_cnt, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_all_local, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);
        rc = bcp_bind(o_hdbc1, (BYTE *) &o_entry_d, 0, O_ENTRY_D_LEN,
NULL, 0, SQLCHARACTER, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc1);

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

                FormatDate(&o_entry_d);

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

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

        if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
```

```
        {
                rcint = bcp_done(o_hdbc1);
                if (rcint < 0)
                        HandleErrorDBC(o_hdbc1);

                SQLFreeStmt(o_hstmt1, SQL_DROP);
                SQLDisconnect(o_hdbc1);
                SQLFreeConnect(o_hdbc1);

                // if build index after load...
                if ((aptr->build_index == 1) && (aptr->index_order == 0))
                        BuildIndex("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 != SUCCEED)
                HandleErrorDBC(o_hdbc2);
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc2);
        rc = bcp_bind(o_hdbc2, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
        if (rc != SUCCEED)
                HandleErrorDBC(o_hdbc2);

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

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

                new_order_rows_loaded++;
                CheckForCommit_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
(%.2f rps)\n",
                        aptr->batch,
                        table_name,
                                time_diff,
                        rows_loaded,
                                (float) aptr->batch / (time_diff ? time_diff
: 1L));

                *time_start = time_end;
    }
```

```
    return;
}
//=====================================================================
//
// Function   : CheckForCommit_Big
//
//=====================================================================
void CheckForCommit_Big(HDBC hdbc,
                                        HSTMT hstmt,
                                        double rows_loaded,
                                        char *table_name,
                                long *time_start)
{

    long       time_end, time_diff;

    if ( !(fmod(rows_loaded,aptr->batch) ) )
    {
                time_end = (TimeNow() / MILLI);
                time_diff = time_end - *time_start;

                printf("-> Loaded %ld rows into %s in %ld sec - Total =
%.0f (%.2f rps)\n",
                        aptr->batch,
                        table_name,
                                time_diff,
                        rows_loaded,
                                (float) aptr->batch / (time_diff ? time_diff
: 1L));

                *time_start = time_end;
    }

    return;
}
//=====================================================================
//
// Function   : OpenConnections
//
//=====================================================================
void OpenConnections()
{

        RETCODE         rc;

        char                    szDriverString[300];
        char                    szDriverStringOut[1024];
        SQLSMALLINT             cbDriverStringOut;


        SQLAllocHandle(SQL_HANDLE_ENV, SQL_NULL_HANDLE, &henv );

        SQLSetEnvAttr(henv, SQL_ATTR_ODBC_VERSION, (void*)SQL_OV_ODBC3, 0
);

        SQLAllocHandle(SQL_HANDLE_DBC, henv , &i_hdbc1);
        SQLAllocHandle(SQL_HANDLE_DBC, henv , &w_hdbc1);
        SQLAllocHandle(SQL_HANDLE_DBC, henv , &c_hdbc1);
        SQLAllocHandle(SQL_HANDLE_DBC, henv , &c_hdbc2);
        SQLAllocHandle(SQL_HANDLE_DBC, henv , &o_hdbc1);
        SQLAllocHandle(SQL_HANDLE_DBC, henv , &o_hdbc2);
        SQLAllocHandle(SQL_HANDLE_DBC, henv , &o_hdbc3);

        SQLSetConnectAttr(i_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
        SQLSetConnectAttr(w_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
        SQLSetConnectAttr(c_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
        SQLSetConnectAttr(c_hdbc2, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
        SQLSetConnectAttr(o_hdbc1, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
        SQLSetConnectAttr(o_hdbc2, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );
        SQLSetConnectAttr(o_hdbc3, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );

        // Open connections to SQL Server
        // Connection 1
        sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                                aptr->server,
                                                aptr->user,
                                                aptr->password,
                                                aptr->database );

        rc = SQLSetConnectOption (i_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);
        if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);

        rc = SQLDriverConnect ( i_hdbc1,
                                                NULL,
                                                   (SQLCHAR*)&szDriverString[0]
,
                                                   SQL_NTS,

        (SQLCHAR*)&szDriverStringOut[0],
                                                   sizeof(szDriverStringOut),
                                                   &cbDriverStringOut,
                                                   SQL_DRIVER_NOPROMPT );
        if ( (rc != SUCCEED) &&
                 (rc != SQL_SUCCESS_WITH_INFO) )
        {
                HandleErrorDBC(i_hdbc1);
                printf("TPC-C Loader aborted!\n");
                exit(9);
        }

        // Connection 2
        sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                                aptr->server,
                                                aptr->user,
                                                aptr->password,
                                                aptr->database );

        rc = SQLSetConnectOption (w_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);
```

```
        if (rc != SUCCEED)
                HandleErrorDBC(w_hdbc1);

        rc = SQLDriverConnect ( w_hdbc1,
                                                NULL,

        (SQLCHAR*)&szDriverString[0] ,
                                                SQL_NTS,

        (SQLCHAR*)&szDriverStringOut[0],

        sizeof(szDriverStringOut),
                                                &cbDriverStringOut,
                                                SQL_DRIVER_NOPROMPT
);
        if ( (rc != SUCCEED) &&
                 (rc != SQL_SUCCESS_WITH_INFO) )
        {
                HandleErrorDBC(w_hdbc1);
                printf("TPC-C Loader aborted!\n");
                exit(9);
        }

        // Connection 3
        sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                            aptr->server,
                                            aptr->user,
                                            aptr->password,
                                            aptr->database );

        rc = SQLSetConnectOption (c_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc1);

        rc = SQLDriverConnect ( c_hdbc1,
                                                NULL,

        (SQLCHAR*)&szDriverString[0] ,
                                                SQL_NTS,

        (SQLCHAR*)&szDriverStringOut[0],

        sizeof(szDriverStringOut),
                                                &cbDriverStringOut,
                                                SQL_DRIVER_NOPROMPT
);
        if ( (rc != SUCCEED) &&
                 (rc != SQL_SUCCESS_WITH_INFO) )
        {
                HandleErrorDBC(c_hdbc1);
                printf("TPC-C Loader aborted!\n");
                exit(9);
        }

        // Connection 4
        sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                            aptr->server,
                                            aptr->user,
                                            aptr->password,
                                            aptr->database );

        rc = SQLSetConnectOption (c_hdbc2, SQL_PACKET_SIZE, aptr-
>pack_size);
        if (rc != SUCCEED)
                HandleErrorDBC(c_hdbc2);

        rc = SQLDriverConnect ( c_hdbc2,
                                                NULL,

        (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 )
        {
                sprintf( szLastError , "%s" ,  Msg );
```

```
                _strtime(timebuf);
                _strdate(datebuf);

                printf( "[%s : %s] %s\n==>SQLState: %s\n" , datebuf,
timebuf, szLastError, SqlState);

                strcpy(err_log_path,aptr->log_path);
                strcat(err_log_path,"tpccldr.err");
                fp1 = fopen(err_log_path,"a+");
                if (fp1 == NULL)
                        printf("ERROR:  Unable to open errorlog file.\n");
                else
                {
                        fprintf(fp1, "[%s : %s] %s\nSQLState: %s\n" ,
datebuf, timebuf, szLastError, SqlState);
                        fclose(fp1);
                }

                i++;
        }
}
//=========================================================================
//
// Function   : HandleErrorSTMT
//
//=========================================================================
void HandleErrorSTMT (HSTMT  hstmt1)
{
        SQLCHAR        SqlState[6], Msg[SQL_MAX_MESSAGE_LENGTH];
        SQLLEN         NativeError;
        SQLSMALLINT i, MsgLen;
        SQLRETURN   rc2;
        char           timebuf[128];
        char           datebuf[128];
        char           err_log_path[256];
        FILE           *fp1;

        i = 1;
        while (( rc2 = SQLGetDiagRec(SQL_HANDLE_STMT , hstmt1, i, SqlState
, &NativeError,
                                Msg, sizeof(Msg) , &MsgLen )) !=
SQL_NO_DATA )
        {
                if (total_db_errors >= MAX_SQL_ERRORS)
                {
                        printf(">>>>> Maximum SQL errors of %d exceeded.
Terminating TPCCLDR.<<<<<\n",total_db_errors);
                        exit(9);
                }
                total_db_errors++;

                sprintf( szLastError , "%s" ,  Msg );

                _strtime(timebuf);
                _strdate(datebuf);

                printf( "[%s : %s] %s\nSQLState: %s\n" , datebuf, timebuf,
szLastError, SqlState);

                strcpy(err_log_path,aptr->log_path);
                strcat(err_log_path,"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
               1                      0              0              1
               2                      0              1              0
               3                      0              1              1
               4                      1              0              0
               5                      1              0              1
               6                      1              1              0
               7                      1              1              1
               8                      2              0              0
               9                      2              0              1
               10                     2              1              0
               11                     2              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
               32                     8              0              0
               33                     8              0              1
               34                     8              1              0
               35                     8              1              1
               36                     9              0              0
               37                     9              0              1
               38                     9              1              0
               39                     9              1              1
               40                     10             0              0
               41                     10             0              1
               42                     10             1              0
               43                     10             1              1
               44                     11             0              0
               45                     11             0              1
               46                     11             1              0
               47                     11             1              1
               48                     12             0              0
               49                     12             0              1
               50                     12             1              0
               51                     12             1              1
               52                     13             0              0
               53                     13             0              1
               54                     13             1              0
               55                     13             1              1
               56                     14             0              0
               57                     14             0              1
               58                     14             1              0
               59                     14             1              1
               60                     15             0              0
               61                     15             0              1
               62                     15             1              0
               63                     15             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)

 ------------------------------
 2006-04-20 21:26:01.733

(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   ' '

 ------------------------------
 2006-04-20 21:26:02.013

(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           -1
-1
 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
0
 default trace enabled                       0           1            0
0
 disallow results from triggers              0           1            0
0
 fill factor (%)                             0         100            0
0
 ft crawl bandwidth (max)                    0       32767          100
100
 ft crawl bandwidth (min)                    0       32767            0
0
 ft notify bandwidth (max)                   0       32767          100
100
 ft notify bandwidth (min)                   0       32767            0
0
 in-doubt xact resolution                    0           2            0
0
 index create memory (KB)                  704  2147483647            0
0
 lightweight pooling                         0           1            1
1
 locks                                    5000  2147483647            0
0
 max degree of parallelism                   0          64            1
1
 max full-text crawl range                   0         256            4
4
 max server memory (MB)                     16  2147483647       508400
508400
 max text repl size (B)                      0  2147483647        65536
65536
 max worker threads                        128       32767         1664
1664
 media retention                             0         365            0
0
 min memory per query (KB)                 512  2147483647         1024
1024
 min server memory (MB)                      0  2147483647            0
0
 nested triggers                             0           1            1
1
 network packet size (B)                   512       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
0
 priority boost                              0           1            1
1
 query governor cost limit                   0  2147483647            0
0
 query wait (s)                             -1  2147483647           -1
-1
 recovery interval (min)                     0       32767        32767
32767
 remote access                               0           1            1
1
 remote admin connections                    0           1            0
0
 remote login timeout (s)                    0  2147483647           20
20
 remote proc trans                           0           1            0
0
 remote query timeout (s)                    0  2147483647          600
600
 Replication XPs                             0           1            0
0
 scan for startup procs                      0           1            0
0
 server trigger recursion                    0           1            1
1
 set working set size                        0           1            0
0
 show advanced options                       0           1            1
1
 SMO and DMO XPs                             0           1            1
1
```

```
 SQL Mail XPs                                0           1           0
0
 transform noise words                       0           1           0
0
 two digit year cutoff                    1753        9999        2049
2049
 user connections                            0       32767           0
0
 user options                                0       32767           0
0
 Web Assistant Procedures                    0           1           0
0
 xp_cmdshell                                 0           1           0
0

1>
```

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:                    28504
SPB Cache pages:                    5031
Unassigned Cache Pages:             0
Read Hit Ratio:                     N/A
Write Hit Ratio:                    N/A
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):                488 MB
System Buffer (spB):                488 MB
SPS Test Day:                       Saturday
SPS Test Time:                      19:00
SPA Physical Memory Size =          1024
SPB Physical Memory Size =          1024
Physical memory size of Front-End = Switch not supported
Physical memory size of Back-End =  Switch not supported
SPA Free Memory Size =              0
SPB Free Memory Size =              0
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 =              536
SPB Write Cache Size =              536
SPA Optimized Raid 3 Memory Size =  0
SPB Optimized Raid 3 Memory Size =  0



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:                    28722
SPB Cache pages:                    5069
Unassigned Cache Pages:             0
Read Hit Ratio:                     N/A
Write Hit Ratio:                    N/A
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:                      18:00
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 =              28
SPB Free Memory Size =              28
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 =              540
SPB Write Cache Size =              540
SPA Optimized Raid 3 Memory Size =  0
SPB Optimized Raid 3 Memory Size =  0



SP Read Cache State                 Disabled
SP Write Cache State                Enabled
Cache Page size:                    8
Write Cache Mirrored:               YES
Low Watermark:                      20
High Watermark:                     85
SPA Cache pages:                    60165
SPB Cache pages:                    10618
Unassigned Cache Pages:             0
Read Hit Ratio:                     N/A
Write Hit Ratio:                    N/A
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:                      19:00
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 =              0
SPB Free Memory Size =              0
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 =              568
SPB Write Cache Size =              568
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
Variable length prefetching YES
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:               128
Current owner:              SP A
Offset:                     0
Auto-trespass:              DISABLED
Auto-assign:                DISABLED
Write cache:                ENABLED
Read cache:                 ENABLED
Idle Threshold:             0
Idle Delay Time:            20
Write Aside Size:           2048
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):    260985
LUN Capacity(Blocks):       534498560
UID:
60:06:01:60:F2:40:0F:00:6C:C7:FD:4F:11:AF:DA:11
Bus 0 Enclosure 0  Disk 0  Queue Length:              0
Bus 0 Enclosure 0  Disk 2  Queue Length:              0
Bus 0 Enclosure 0  Disk 1  Queue Length:              0
Bus 0 Enclosure 0  Disk 3  Queue Length:              0
Bus 0 Enclosure 0  Disk 0  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 2  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 1  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 3  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 0  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 2  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 1  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 3  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 0  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 2  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 1  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 3  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 0  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 2  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 1  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 3  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 0   Enabled
Bus 0 Enclosure 0  Disk 2   Enabled
Bus 0 Enclosure 0  Disk 1   Enabled
Bus 0 Enclosure 0  Disk 3   Enabled
Is Private:                 NO
Snapshots List:             None
MirrorView Name if any:     Not Available


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
```

```
Variable length prefetching YES
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:               128
Current owner:              SP A
Offset:                     0
Auto-trespass:              DISABLED
Auto-assign:                DISABLED
Write cache:                ENABLED
Read cache:                 ENABLED
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):    260985
LUN Capacity(Blocks):       534498560
UID:
60:06:01:60:6D:30:10:00:B6:82:C7:DD:0E:AF:DA:11
Bus 0 Enclosure 0  Disk 0  Queue Length:              0
Bus 0 Enclosure 0  Disk 2  Queue Length:              0
Bus 0 Enclosure 0  Disk 1  Queue Length:              0
Bus 0 Enclosure 0  Disk 3  Queue Length:              0
Bus 0 Enclosure 0  Disk 0  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 2  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 1  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 3  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 0  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 2  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 1  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 3  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 0  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 2  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 1  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 3  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 0  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 2  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 1  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 3  Soft Write Errors:         0
```

```
Bus 0 Enclosure 0  Disk 0   Enabled

Bus 0 Enclosure 0  Disk 2   Enabled

Bus 0 Enclosure 0  Disk 1   Enabled

Bus 0 Enclosure 0  Disk 3   Enabled
Is Private:                 NO
Snapshots List:             None
MirrorView Name if any:     Not Mirrored



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

Variable length prefetching YES
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:               128
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):    247368
LUN Capacity(Blocks):       506609664
UID:
60:06:01:60:E9:30:10:00:BC:31:9B:6D:A7:C1:DA:11
Bus 0 Enclosure 0  Disk 5  Queue Length:              1
Bus 0 Enclosure 0  Disk 1  Queue Length:              1284
Bus 0 Enclosure 0  Disk 3  Queue Length:              1
Bus 0 Enclosure 0  Disk 6  Queue Length:              32794298
Bus 0 Enclosure 0  Disk 0  Queue Length:              2063
Bus 0 Enclosure 0  Disk 2  Queue Length:              1283
Bus 0 Enclosure 0  Disk 4  Queue Length:              1
Bus 0 Enclosure 0  Disk 7  Queue Length:              26873808
Bus 0 Enclosure 0  Disk 5  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 1  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 3  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 6  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 0  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 2  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 4  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 7  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 5  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 1  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 3  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 6  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 0  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 2  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 4  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 7  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 5  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 1  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 3  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 6  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 0  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 2  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 4  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 7  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 5  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 1  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 3  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 6  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 0  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 2  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 4  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 7  Soft Write Errors:         0

Bus 0 Enclosure 0  Disk 5   Enabled

Bus 0 Enclosure 0  Disk 1   Enabled

Bus 0 Enclosure 0  Disk 3   Enabled

Bus 0 Enclosure 0  Disk 6   Enabled

Bus 0 Enclosure 0  Disk 0   Enabled

Bus 0 Enclosure 0  Disk 2   Enabled

Bus 0 Enclosure 0  Disk 4   Enabled

Bus 0 Enclosure 0  Disk 7   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

Variable length prefetching YES
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:               128
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:           2048
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):    547419
LUN Capacity(Blocks):       1121114624
UID:
60:06:01:60:F2:40:0F:00:D6:A1:FE:D7:A9:C1:DA:11
Bus 0 Enclosure 0  Disk 5  Queue Length:              0
```

```
Bus 0 Enclosure 0  Disk 11  Queue Length:              0
Bus 0 Enclosure 0  Disk 9  Queue Length:              0
Bus 0 Enclosure 0  Disk 7  Queue Length:              0
Bus 0 Enclosure 0  Disk 12  Queue Length:              0
Bus 0 Enclosure 0  Disk 10  Queue Length:              0
Bus 0 Enclosure 0  Disk 8  Queue Length:              0
Bus 0 Enclosure 0  Disk 6  Queue Length:              0
Bus 0 Enclosure 0  Disk 5  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 11  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 0  Disk 12  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 10  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 0  Disk 5  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 11  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 0  Disk 12  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 10  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 0  Disk 5  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 11  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 0  Disk 12  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 10  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 0  Disk 5  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 11  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 0  Disk 12  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 10  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 0  Disk 5   Enabled

Bus 0 Enclosure 0  Disk 11   Enabled

Bus 0 Enclosure 0  Disk 9   Enabled

Bus 0 Enclosure 0  Disk 7   Enabled

Bus 0 Enclosure 0  Disk 12   Enabled

Bus 0 Enclosure 0  Disk 10   Enabled

Bus 0 Enclosure 0  Disk 8   Enabled

Bus 0 Enclosure 0  Disk 6   Enabled
Is Private:                 NO
Snapshots List:             None
MirrorView Name if any:     Not Available
```

```
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

Variable length prefetching YES
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:               128
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):    547419
LUN Capacity(Blocks):       1121114624
UID:
60:06:01:60:6D:30:10:00:08:FD:22:DC:9E:C1:DA:11
Bus 0 Enclosure 0  Disk 5  Queue Length:              0
Bus 0 Enclosure 0  Disk 7  Queue Length:              0
Bus 0 Enclosure 0  Disk 12  Queue Length:              0
Bus 0 Enclosure 0  Disk 10  Queue Length:              0
Bus 0 Enclosure 0  Disk 6  Queue Length:              0
Bus 0 Enclosure 0  Disk 8  Queue Length:              0
Bus 0 Enclosure 0  Disk 11  Queue Length:              0
```

```
Bus 0 Enclosure 0  Disk 9  Queue Length:              0
Bus 0 Enclosure 0  Disk 5  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 7  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 12  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 10  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 6  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 8  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 11  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 9  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 5  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 7  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 12  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 10  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 6  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 8  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 11  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 9  Hard Write Errors:         0
Bus 0 Enclosure 0  Disk 5  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 7  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 12  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 10  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 6  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 8  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 11  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 9  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 5  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 7  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 12  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 10  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 6  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 8  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 11  Soft Write Errors:         0
Bus 0 Enclosure 0  Disk 9  Soft Write Errors:         0

Bus 0 Enclosure 0  Disk 5   Enabled

Bus 0 Enclosure 0  Disk 7   Enabled

Bus 0 Enclosure 0  Disk 12   Enabled

Bus 0 Enclosure 0  Disk 10   Enabled

Bus 0 Enclosure 0  Disk 6   Enabled

Bus 0 Enclosure 0  Disk 8   Enabled

Bus 0 Enclosure 0  Disk 11   Enabled

Bus 0 Enclosure 0  Disk 9   Enabled
Is Private:                 NO
Snapshots List:             None
MirrorView Name if any:     Not Mirrored



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

Variable length prefetching YES
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:               128
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):    545632
LUN Capacity(Blocks):       1117454336
UID:
60:06:01:60:E9:30:10:00:E0:96:62:77:A7:C1:DA:11
Bus 0 Enclosure 0  Disk 8  Queue Length:              36235419
Bus 0 Enclosure 1  Disk 7  Queue Length:              1
Bus 0 Enclosure 1  Disk 5  Queue Length:              1
Bus 0 Enclosure 1  Disk 3  Queue Length:              1
Bus 0 Enclosure 1  Disk 1  Queue Length:              1
Bus 0 Enclosure 0  Disk 14  Queue Length:              1
Bus 0 Enclosure 0  Disk 12  Queue Length:              40983628
Bus 0 Enclosure 0  Disk 10  Queue Length:              32529194
Bus 0 Enclosure 1  Disk 8  Queue Length:              1
Bus 0 Enclosure 1  Disk 6  Queue Length:              1
Bus 0 Enclosure 1  Disk 4  Queue Length:              1
Bus 0 Enclosure 1  Disk 2  Queue Length:              1
Bus 0 Enclosure 1  Disk 0  Queue Length:              1
```

```
Bus 0 Enclosure 0  Disk 13  Queue Length:              30000089
Bus 0 Enclosure 0  Disk 11  Queue Length:              28660953
Bus 0 Enclosure 0  Disk 9  Queue Length:              29246342
Bus 0 Enclosure 0  Disk 8  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 1  Disk 3  Hard Read Errors:          0
Bus 0 Enclosure 1  Disk 1  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 14  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 12  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 10  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 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 13  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 11  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 9  Hard Read Errors:          0
Bus 0 Enclosure 0  Disk 8  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 1  Disk 3  Hard Write Errors:          0
Bus 0 Enclosure 1  Disk 1  Hard Write Errors:          0
Bus 0 Enclosure 0  Disk 14  Hard Write Errors:          0
Bus 0 Enclosure 0  Disk 12  Hard Write Errors:          0
Bus 0 Enclosure 0  Disk 10  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 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 13  Hard Write Errors:          0
Bus 0 Enclosure 0  Disk 11  Hard Write Errors:          0
Bus 0 Enclosure 0  Disk 9  Hard Write Errors:          0
Bus 0 Enclosure 0  Disk 8  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 1  Disk 3  Soft Read Errors:          0
Bus 0 Enclosure 1  Disk 1  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 14  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 12  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 10  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 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 13  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 11  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 9  Soft Read Errors:          0
Bus 0 Enclosure 0  Disk 8  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 1  Disk 3  Soft Write Errors:          0
Bus 0 Enclosure 1  Disk 1  Soft Write Errors:          0
Bus 0 Enclosure 0  Disk 14  Soft Write Errors:          0
Bus 0 Enclosure 0  Disk 12  Soft Write Errors:          0
Bus 0 Enclosure 0  Disk 10  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 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 13  Soft Write Errors:          0
Bus 0 Enclosure 0  Disk 11  Soft Write Errors:          0
Bus 0 Enclosure 0  Disk 9  Soft Write Errors:          0

Bus 0 Enclosure 0  Disk 8   Enabled

Bus 0 Enclosure 1  Disk 7   Enabled

Bus 0 Enclosure 1  Disk 5   Enabled

Bus 0 Enclosure 1  Disk 3   Enabled

Bus 0 Enclosure 1  Disk 1   Enabled

Bus 0 Enclosure 0  Disk 14   Enabled

Bus 0 Enclosure 0  Disk 12   Enabled

Bus 0 Enclosure 0  Disk 10   Enabled

Bus 0 Enclosure 1  Disk 8   Enabled

Bus 0 Enclosure 1  Disk 6   Enabled

Bus 0 Enclosure 1  Disk 4   Enabled

Bus 0 Enclosure 1  Disk 2   Enabled

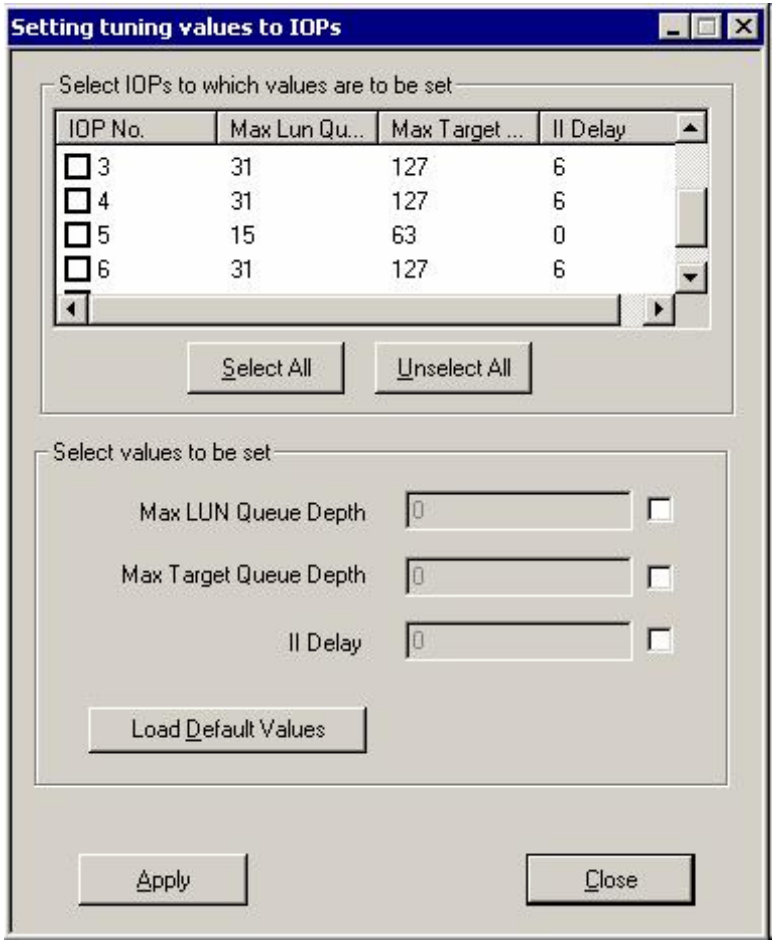
Bus 0 Enclosure 1  Disk 0   Enabled

Bus 0 Enclosure 0  Disk 13   Enabled

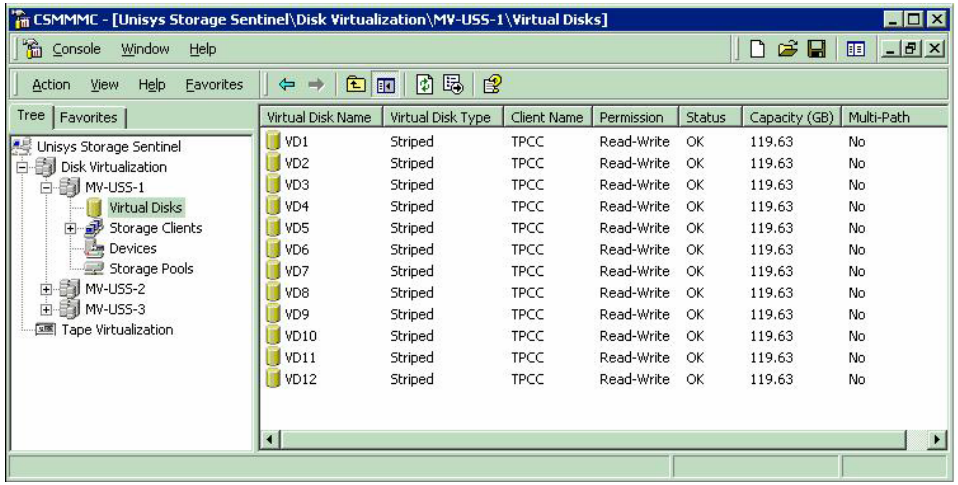
Bus 0 Enclosure 0  Disk 11   Enabled

Bus 0 Enclosure 0  Disk 9   Enabled
Is Private:                 NO
Snapshots List:             None
MirrorView Name if any:     Not Mirrored
```

Fibre Channel HBAUtility Settings



Database USS Configuration Info (common to USS 1-15)



Windows Enterprise Server Configuration Information

```
System System Information report written at: 04/18/06 21:45:35
System Name: TPCC-ZORRO
[System Summary]

Item    Value
OS Name Microsoft(R) Windows(R) Server 2003 Datacenter x64 Edition
Version 5.2.3790 Service Pack 1 Build 3790
Other OS Description   Not Available
OS Manufacturer        Microsoft Corporation
System Name    TPCC-ZORRO
System Manufacturer    UNISYS
System Model   ES7000-600
System Type    x64-based PC
Processor      EM64T Family 15 Model 4 Stepping 8 GenuineIntel ~3000 Mhz

Processor      EM64T Family 15 Model 4 Stepping 8 GenuineIntel ~3000 Mhz
```

Processor	EM64T Family 15 Model 4 Stepping 8 GenuineIntel ~3000 Mhz
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Processor      EM64T Family 15 Model 4 Stepping 8 GenuineIntel ~3000 Mhz

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Processor      EM64T Family 15 Model 4 Stepping 8 GenuineIntel ~3000 Mhz

Processor      EM64T Family 15 Model 4 Stepping 8 GenuineIntel ~3000 Mhz

BIOS Version/Date      Phoenix Technologies LTD BIOS Release 2.09.001,
1/10/2006
SMBIOS Version 2.31
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      TPCC-ZORRO\Administrator
Time Zone      Pacific Daylight Time
Total Physical Memory  524,158.41 MB
Available Physical Memory     3.21 GB
Total Virtual Memory  507.35 GB
Available Virtual Memory      5.61 GB
Page File Space        4.00 GB
Page File      C:\pagefile.sys

[Hardware Resources]



[Conflicts/Sharing]

Resource       Device
I/O Port 0x0000A000-0x0000AFFF        PCI bus
I/O Port 0x0000A000-0x0000AFFF        Intel(R) P64H2 PCI to PCI Bridge -
1460

I/O Port 0x00000000-0x00001FFF        PCI bus
I/O Port 0x00000000-0x00001FFF        Direct memory access controller


Memory Address 0xC3F00000-0xC3FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xC3F00000-0xC3FFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xAA000000-0xAAFFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xAA000000-0xAAFFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xAA000000-0xAAFFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xCB000000-0xCBFFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xCB000000-0xCBFFFFFF  PCI standard PCI-to-PCI bridge
Memory Address 0xCB000000-0xCBFFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

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
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IRQ 10  Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10  Intel(R) P64H2 PCI Hot Plug Controller - 1462

I/O Port 0x00009000-0x00009FFF        PCI bus
I/O Port 0x00009000-0x00009FFF        Intel(R) P64H2 PCI to PCI Bridge -
1460

Memory Address 0xDBF00000-0xDBFFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xDBF00000-0xDBFFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xB4F00000-0xB4FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
```

```
Memory Address 0xB4F00000-0xB4FFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xB8F00000-0xB8FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xB8F00000-0xB8FFFFFF  PCI standard PCI-to-PCI bridge


I/O Port 0x00006000-0x00006FFF        PCI bus
I/O Port 0x00006000-0x00006FFF        Intel(R) P64H2 PCI to PCI Bridge -
1460

Memory Address 0xF0E00000-0xF0EFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xF0E00000-0xF0EFFFFF  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


Memory Address 0xC3E00000-0xC3EFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xC3E00000-0xC3EFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xC1000000-0xC1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xC1000000-0xC1FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xC1000000-0xC1FFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xC5000000-0xC7FFFFFF  PCI bus
Memory Address 0xC5000000-0xC7FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xC5000000-0xC7FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xC5000000-0xC7FFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

I/O Port 0x00003000-0x00004FFF        PCI bus
I/O Port 0x00003000-0x00004FFF        Intel(R) P64H2 PCI to PCI Bridge -
1460
I/O Port 0x00003000-0x00004FFF        Intel(R) PRO/1000 MT Dual Port
Network Connection #2

I/O Port 0x0000B000-0x0000FFFF        PCI bus
I/O Port 0x0000B000-0x0000FFFF        Intel(R) P64H2 PCI to PCI Bridge -
1460

Memory Address 0xCDF00000-0xCDFFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xCDF00000-0xCDFFFFFF  PCI standard PCI-to-PCI bridge
```

```
Memory Address 0xD1F00000-0xD1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xD1F00000-0xD1FFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xD7F00000-0xD7FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xD7F00000-0xD7FFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xE1F00000-0xE1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xE1F00000-0xE1FFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xE3000000-0xE5FFFFFF  PCI bus
Memory Address 0xE3000000-0xE5FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xE3000000-0xE5FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xE3000000-0xE5FFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

I/O Port 0x00005000-0x00005FFF        PCI bus
I/O Port 0x00005000-0x00005FFF        Intel(R) P64H2 PCI to PCI Bridge -
1460

Memory Address 0xB0F00000-0xB0FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xB0F00000-0xB0FFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xE5F00000-0xE5FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xE5F00000-0xE5FFFFFF  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 0xB6000000-0xB6FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xB6000000-0xB6FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xB6000000-0xB6FFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter
```

```
Memory Address 0xBA000000-0xBCFFFFFF  PCI bus
Memory Address 0xBA000000-0xBCFFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xBA000000-0xBCFFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xBA000000-0xBCFFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xC0000000-0xC4FFFFFF  PCI bus
Memory Address 0xC0000000-0xC4FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xC0000000-0xC4FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xC0000000-0xC4FFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xA0000-0xFFFFF        PCI bus
Memory Address 0xA0000-0xFFFFF        UNISYS Console Manager 3

Memory Address 0xC7E00000-0xC7EFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xC7E00000-0xC7EFFFFF  PCI standard PCI-to-PCI bridge


I/O Port 0x00007000-0x00007FFF        PCI bus
I/O Port 0x00007000-0x00007FFF        Intel(R) P64H2 PCI to PCI Bridge -
1460

Memory Address 0xACF00000-0xACFFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xACF00000-0xACFFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xBCE00000-0xBCEFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xBCE00000-0xBCEFFFFF  PCI standard PCI-to-PCI bridge


Memory Address 0xCF000000-0xD1FFFFFF  PCI bus
Memory Address 0xCF000000-0xD1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xCF000000-0xD1FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xCF000000-0xD1FFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xD5000000-0xD5FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xD5000000-0xD5FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xD5000000-0xD5FFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xD9000000-0xDBFFFFFF  PCI bus
Memory Address 0xD9000000-0xDBFFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xD9000000-0xDBFFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xD9000000-0xDBFFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xDF000000-0xE2FFFFFF  PCI bus
Memory Address 0xDF000000-0xE2FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xDF000000-0xE2FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xDF000000-0xE2FFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

I/O Port 0x00008000-0x00008FFF        PCI bus
I/O Port 0x00008000-0x00008FFF        Intel(R) P64H2 PCI to PCI Bridge -
1460

Memory Address 0xAE000000-0xB1FFFFFF  PCI bus
Memory Address 0xAE000000-0xB1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xAE000000-0xB1FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xAE000000-0xB1FFFFFF  Unisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xB2000000-0xB4FFFFFF  PCI bus
Memory Address 0xB2000000-0xB4FFFFFF  Intel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xB2000000-0xB4FFFFFF  PCI standard PCI-to-PCI bridge

Memory Address 0xB2000000-0xB4FFFFFF  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
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

0x00003000-0x00004FFF  PCI bus OK
0x00003000-0x00004FFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0x00003000-0x00004FFF  Intel(R) PRO/1000 MT Dual Port Network Connection
#2      OK
0x00003040-0x0000307F  Intel(R) PRO/1000 MT Dual Port Network Connection
        OK
0x00004000-0x00004FFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0x00005000-0x00005FFF  PCI bus OK
0x00005000-0x00005FFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0x00006000-0x00006FFF  PCI bus OK
0x00006000-0x00006FFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0x00007000-0x00007FFF  PCI bus OK
0x00007000-0x00007FFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0x00008000-0x00008FFF  PCI bus OK
0x00008000-0x00008FFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0x00009000-0x00009FFF  PCI bus OK
0x00009000-0x00009FFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0x0000A000-0x0000AFFF  PCI bus OK
0x0000A000-0x0000AFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0x0000B000-0x0000FFFF  PCI bus OK
0x0000B000-0x0000FFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      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 14  Primary IDE Channel   OK
IRQ 15  Secondary IDE Channel  OK
IRQ 10  Intel(R) 82801DB/DBM SMBus Controller - 24C3 OK
```

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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 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 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 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  Unisys VI on Emulex LightPulse Adapter       OK
IRQ 97  Unisys VI on Emulex LightPulse Adapter       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 480 Unisys VI on Emulex LightPulse Adapter       OK
IRQ 481 Unisys VI on Emulex LightPulse Adapter       OK
IRQ 528 Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK
IRQ 576 Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK
IRQ 672 Unisys VI on Emulex LightPulse Adapter       OK
IRQ 673 Unisys VI on Emulex LightPulse Adapter       OK
IRQ 720 Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK
IRQ 744 Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK
IRQ 864 Unisys VI on Emulex LightPulse Adapter       OK
IRQ 865 Unisys VI on Emulex LightPulse Adapter       OK
IRQ 912 Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK
IRQ 936 Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK
IRQ 1056       Unisys VI on Emulex LightPulse Adapter       OK
IRQ 1057       Unisys VI on Emulex LightPulse Adapter       OK
IRQ 1080       Unisys VI on Emulex LightPulse Adapter       OK
IRQ 1081       Unisys VI on Emulex LightPulse Adapter       OK
IRQ 1104       Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK

IRQ 1128       Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK

IRQ 1152       Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK

IRQ 1440       Unisys VI on Emulex LightPulse Adapter       OK
IRQ 1441       Unisys VI on Emulex LightPulse Adapter       OK
IRQ 1464       Unisys VI on Emulex LightPulse Adapter       OK
IRQ 1465       Unisys VI on Emulex LightPulse Adapter       OK
IRQ 1488       Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK

IRQ 1512       Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK

IRQ 1632       Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK

IRQ 1680       Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK

IRQ 1704       Unisys Intelligent Fibre Channel Fabric Bus Adapter  OK


[Memory]

Resource       Device  Status
0xA0000-0xFFFFF        PCI bus OK
0xA0000-0xFFFFF        UNISYS Console Manager 3      OK
0xF5000000-0xF7FFFFFF  PCI bus OK
0xF7FFFC00-0xF7FFFFFF  Intel(R) 82801DB/DBM USB 2.0 Enhanced Host
Controller - 24CD      OK
0xF6000000-0xF6FFFFFF  UNISYS Console Manager 3      OK
0xF7EFF000-0xF7EFFFFF  UNISYS Console Manager 3      OK
0xF7EFE800-0xF7EFEFFF  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
0xC0000-0xFFFFF        Motherboard resources  OK
0xF7FFF800-0xF7FFFBFF  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  Unisys VI on Emulex LightPulse Adapter       OK

0xF2EFFC00-0xF2EFFCFF  Unisys VI on Emulex LightPulse Adapter       OK

0xF2EFD000-0xF2EFDFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xF2EFF800-0xF2EFF8FF  Unisys VI on Emulex LightPulse Adapter       OK

0xF1FFFC00-0xF1FFFCFF  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
0xEEFFFC00-0xEEFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xF0E00000-0xF0EFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xF0E00000-0xF0EFFFFF  PCI standard PCI-to-PCI bridge       OK
0xF0EFF000-0xF0EFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xEDFFFC00-0xEDFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xE8000000-0xECFFFFFF  PCI bus 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
0xE8F00000-0xE8FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xE8FFFC00-0xE8FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xE6000000-0xE7FFFFFF  PCI bus OK
```

```
0xE7F00000-0xE7FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xE6F00000-0xE6FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xE7FFE000-0xE7FFEFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xE7FFFC00-0xE7FFFCFF  Unisys VI on Emulex LightPulse Adapter       OK

0xE7FFD000-0xE7FFDFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xE7FFF800-0xE7FFF8FF  Unisys VI on Emulex LightPulse Adapter       OK

0xE6FFFC00-0xE6FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xE3000000-0xE5FFFFFF  PCI bus OK
0xE3000000-0xE5FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xE3000000-0xE5FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xE3000000-0xE5FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xE3F00000-0xE3FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xE3FFFC00-0xE3FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xE5F00000-0xE5FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xE5F00000-0xE5FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xE5FFF000-0xE5FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xE3EFFC00-0xE3EFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xDF000000-0xE2FFFFFF  PCI bus OK
0xDF000000-0xE2FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xDF000000-0xE2FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xDF000000-0xE2FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xDFF00000-0xDFFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xDFFFFC00-0xDFFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xE1F00000-0xE1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xE1F00000-0xE1FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xE1FFF000-0xE1FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xDFEFFC00-0xDFEFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xDC000000-0xDEFFFFFF  PCI bus OK
0xDDF00000-0xDDFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xDCF00000-0xDCFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xDDFFE000-0xDDFFEFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xDDFFFC00-0xDDFFFCFF  Unisys VI on Emulex LightPulse Adapter       OK
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```
0xDDFFD000-0xDDFFDFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xDDFFF800-0xDDFFF8FF  Unisys VI on Emulex LightPulse Adapter       OK

0xDCFFFC00-0xDCFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xD9000000-0xDBFFFFFF  PCI bus OK
0xD9000000-0xDBFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xD9000000-0xDBFFFFFF  PCI standard PCI-to-PCI bridge       OK
0xD9000000-0xDBFFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xD9F00000-0xD9FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xD9FFFC00-0xD9FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xDBF00000-0xDBFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xDBF00000-0xDBFFFFFF  PCI standard PCI-to-PCI bridge       OK
0xDBFFF000-0xDBFFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xD9EFFC00-0xD9EFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xD4000000-0xD8FFFFFF  PCI bus OK
0xD7F00000-0xD7FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xD7F00000-0xD7FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xD5000000-0xD5FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xD5000000-0xD5FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xD5000000-0xD5FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xD7FFF000-0xD7FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xD5FFFC00-0xD5FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xD4F00000-0xD4FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xD4FFFC00-0xD4FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xD2000000-0xD3FFFFFF  PCI bus OK
0xD3F00000-0xD3FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xD2F00000-0xD2FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xD3FFE000-0xD3FFEFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xD3FFFC00-0xD3FFFCFF  Unisys VI on Emulex LightPulse Adapter       OK

0xD3FFD000-0xD3FFDFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xD3FFF800-0xD3FFF8FF  Unisys VI on Emulex LightPulse Adapter       OK

0xD2FFFC00-0xD2FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xCF000000-0xD1FFFFFF  PCI bus OK
0xCF000000-0xD1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK
0xCF000000-0xD1FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xCF000000-0xD1FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xCFF00000-0xCFFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xCFFFFC00-0xCFFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xD1F00000-0xD1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xD1F00000-0xD1FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xD1FFF000-0xD1FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xCFEFFC00-0xCFEFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xCA000000-0xCEFFFFFF  PCI bus OK
0xCDF00000-0xCDFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xCDF00000-0xCDFFFFFF  PCI standard PCI-to-PCI bridge       OK
0xCB000000-0xCBFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xCB000000-0xCBFFFFFF  PCI standard PCI-to-PCI bridge       OK
0xCB000000-0xCBFFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xCDFFF000-0xCDFFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xCBFFFC00-0xCBFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xCAF00000-0xCAFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xCAFFFC00-0xCAFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xC8000000-0xC9FFFFFF  PCI bus OK
0xC9F00000-0xC9FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC8F00000-0xC8FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC9FFE000-0xC9FFEFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xC9FFFC00-0xC9FFFCFF  Unisys VI on Emulex LightPulse Adapter       OK

0xC9FFD000-0xC9FFDFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xC9FFF800-0xC9FFF8FF  Unisys VI on Emulex LightPulse Adapter       OK

0xC8FFFC00-0xC8FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xC5000000-0xC7FFFFFF  PCI bus OK
0xC5000000-0xC7FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC5000000-0xC7FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xC5000000-0xC7FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xC7F00000-0xC7FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC5F00000-0xC5FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC7FFE000-0xC7FFEFFF  Unisys VI on Emulex LightPulse Adapter       OK
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0xC7FFFC00-0xC7FFFCFF  Unisys VI on Emulex LightPulse Adapter       OK

0xC7FFD000-0xC7FFDFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xC7FFF800-0xC7FFF8FF  Unisys VI on Emulex LightPulse Adapter       OK

0xC5FFFC00-0xC5FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xC7E00000-0xC7EFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC7E00000-0xC7EFFFFF  PCI standard PCI-to-PCI bridge       OK
0xC7EFF000-0xC7EFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xC5EFFC00-0xC5EFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xC0000000-0xC4FFFFFF  PCI bus OK
0xC0000000-0xC4FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC0000000-0xC4FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xC0000000-0xC4FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xC3F00000-0xC3FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC3F00000-0xC3FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xC1000000-0xC1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC1000000-0xC1FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xC1000000-0xC1FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xC3FFF000-0xC3FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xC1FFFC00-0xC1FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xC3E00000-0xC3EFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xC3E00000-0xC3EFFFFF  PCI standard PCI-to-PCI bridge       OK
0xC3EFF000-0xC3EFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xC0FFFC00-0xC0FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xBD000000-0xBFFFFFFF  PCI bus OK
0xBEF00000-0xBEFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xBDF00000-0xBDFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xBEFFE000-0xBEFFEFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xBEFFFC00-0xBEFFFCFF  Unisys VI on Emulex LightPulse Adapter       OK

0xBEFFD000-0xBEFFDFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xBEFFF800-0xBEFFF8FF  Unisys VI on Emulex LightPulse Adapter       OK

0xBDFFFC00-0xBDFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xBA000000-0xBCFFFFFF  PCI bus OK
0xBA000000-0xBCFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK
0xBA000000-0xBCFFFFFF  PCI standard PCI-to-PCI bridge       OK
0xBA000000-0xBCFFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xBCF00000-0xBCFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xBAF00000-0xBAFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xBCFFE000-0xBCFFEFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xBCFFFC00-0xBCFFFCFF  Unisys VI on Emulex LightPulse Adapter       OK

0xBCFFD000-0xBCFFDFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xBCFFF800-0xBCFFF8FF  Unisys VI on Emulex LightPulse Adapter       OK

0xBAFFFC00-0xBAFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xBCE00000-0xBCEFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xBCE00000-0xBCEFFFFF  PCI standard PCI-to-PCI bridge       OK
0xBCEFF000-0xBCEFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xBAEFFC00-0xBAEFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xB5000000-0xB9FFFFFF  PCI bus OK
0xB8F00000-0xB8FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xB8F00000-0xB8FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xB6000000-0xB6FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xB6000000-0xB6FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xB6000000-0xB6FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xB8FFF000-0xB8FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xB6FFFC00-0xB6FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xB5F00000-0xB5FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xB5FFFC00-0xB5FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xB2000000-0xB4FFFFFF  PCI bus OK
0xB2000000-0xB4FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xB2000000-0xB4FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xB2000000-0xB4FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xB4F00000-0xB4FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xB4F00000-0xB4FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xB4FFF000-0xB4FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xB2FFFC00-0xB2FFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xAE000000-0xB1FFFFFF  PCI bus OK
0xAE000000-0xB1FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xAE000000-0xB1FFFFFF  PCI standard PCI-to-PCI bridge       OK
```

```
0xAE000000-0xB1FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xAEF00000-0xAEFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xAEFFFC00-0xAEFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xB0F00000-0xB0FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xB0F00000-0xB0FFFFFF  PCI standard PCI-to-PCI bridge       OK
0xB0FFF000-0xB0FFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xAEEFFC00-0xAEEFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xA9000000-0xADFFFFFF  PCI bus OK
0xACF00000-0xACFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xACF00000-0xACFFFFFF  PCI standard PCI-to-PCI bridge       OK
0xAA000000-0xAAFFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xAA000000-0xAAFFFFFF  PCI standard PCI-to-PCI bridge       OK
0xAA000000-0xAAFFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xACFFF000-0xACFFFFFF  Unisys Intelligent Fibre Channel Fabric Bus Adapter
        OK
0xAAFFFC00-0xAAFFFCFF  Intel(R) P64H2 PCI Hot Plug Controller - 1462
        OK
0xA9F00000-0xA9FFFFFF  Intel(R) P64H2 PCI to PCI Bridge - 1460      OK

0xA9FFFC00-0xA9FFFCFF  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\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\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\tssoft32.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\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\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\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\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\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

Driver  c:\windows\system32\drivers\cdrom.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 75.50 KB (77,312 bytes), 3/25/2005 11:00 AM)


[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 0xF7EFF000-0xF7EFFFFF
Memory Address 0xA0000-0xFFFFF
I/O Port       0x000003B0-0x000003BB
I/O Port       0x000003C0-0x000003DF
Driver  c:\windows\system32\drivers\cm3mini.sys (8.0.0.25, 13.50 KB
(13,824 bytes), 7/21/2005 2:44 PM)

[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
Driver  c:\windows\system32\drivers\hidusb.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 18.50 KB (18,944 bytes), 3/25/2005 11:00 AM)


[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
Driver  c:\windows\system32\drivers\hidusb.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 18.50 KB (18,944 bytes), 3/25/2005 11:00 AM)


[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     4/18/2006 4:18 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
Driver  c:\windows\system32\drivers\e1g5132e.sys (8.1.8.0 built by:
WinDDK, 227.50 KB (232,960 bytes), 7/20/2005 8:59 PM)

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     4/18/2006 4:18 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       0x00003000-0x00004FFF
IRQ Channel    IRQ 72
Driver  c:\windows\system32\drivers\e1g5132e.sys (8.1.8.0 built by:
WinDDK, 227.50 KB (232,960 bytes), 7/20/2005 8:59 PM)
```

```
Name    [00000003] 1394 Net Adapter
Adapter Type   Not Available
Product Type   1394 Net Adapter
Installed      Yes
PNP Device ID  V1394\NIC1394\CD00008000B00
Last Reset     4/18/2006 4:18 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
Driver  c:\windows\system32\drivers\nic1394.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 90.00 KB (92,160 bytes), 7/20/2005 8:59 PM)


Name    [00000004] RAS Async Adapter
Adapter Type   Not Available
Product Type   RAS Async Adapter
Installed      Yes
PNP Device ID  Not Available
Last Reset     4/18/2006 4:18 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_L2TPMINIPORT\0000
Last Reset     4/18/2006 4:18 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_PPTPMINIPORT\0000
Last Reset     4/18/2006 4:18 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_PPPOEMINIPORT\0000
Last Reset     4/18/2006 4:18 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_PTIMINIPORT\0000
Last Reset     4/18/2006 4:18 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     4/18/2006 4:18 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     4/18/2006 4:18 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
Driver  c:\windows\system32\drivers\usb8023.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 23.50 KB (24,064 bytes), 3/25/2005 11:00 AM)


[Protocol]

Item   Value
Name   MSAFD Tcpip [TCP/IP]
Connectionless Service No
Guarantees Delivery    Yes
Guarantees Sequencing  Yes
Maximum Address Size   16 bytes
Maximum Message Size   0 bytes
Message Oriented       No
Minimum Address Size   16 bytes
Pseudo Stream Oriented No
Supports Broadcasting  No
Supports Connect Data  No
Supports Disconnect Data      No
Supports Encryption    No
Supports Expedited Data       Yes
Supports Graceful Closing     Yes
Supports Guaranteed Bandwidth No
Supports Multicasting  No

Name   MSAFD Tcpip [UDP/IP]
Connectionless Service Yes
Guarantees Delivery    No
Guarantees Sequencing  No
Maximum Address Size   16 bytes
Maximum Message Size   63.93 KB (65,467 bytes)
Message Oriented       Yes
Minimum Address Size   16 bytes
Pseudo Stream Oriented No
Supports Broadcasting  Yes
Supports Connect Data  No
Supports Disconnect Data      No
Supports Encryption    No
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting  Yes

Name   RSVP UDP Service Provider
Connectionless Service Yes
Guarantees Delivery    No
Guarantees Sequencing  No
Maximum Address Size   16 bytes
Maximum Message Size   63.93 KB (65,467 bytes)
Message Oriented       Yes
Minimum Address Size   16 bytes
Pseudo Stream Oriented No
Supports Broadcasting  Yes
Supports Connect Data  No
Supports Disconnect Data      No
Supports Encryption    Yes
Supports Expedited Data       No
Supports Graceful Closing     No
Supports Guaranteed Bandwidth No
Supports Multicasting  Yes

Name   RSVP TCP Service Provider
Connectionless Service No
Guarantees Delivery    Yes
Guarantees Sequencing  Yes
Maximum Address Size   16 bytes
Maximum Message Size   0 bytes
Message Oriented       No
Minimum Address Size   16 bytes
Pseudo Stream Oriented No
Supports Broadcasting  No
Supports Connect Data  No
Supports Disconnect Data      No
Supports Encryption    Yes
Supports Expedited Data       Yes
Supports Graceful Closing     Yes
Supports Guaranteed Bandwidth No
Supports Multicasting  No

[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
```

```
[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      8.12 GB (8,718,983,168 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 184
Sectors/Track   63
Size    241.56 GB (259,375,979,520 bytes)
Total Cylinders        31,534
Total Sectors   506,593,710
Total Tracks    8,041,170
Tracks/Cylinder        255
Partition       Disk #2, Partition #0
Partition Size 241.56 GB (259,375,947,264 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 185
Sectors/Track   63
Size    532.84 GB (572,134,026,240 bytes)
Total Cylinders        69,558
Total Sectors   1,117,449,270
Total Tracks    17,737,290
Tracks/Cylinder        255
Partition       Disk #1, Partition #0
Partition Size 532.84 GB (572,133,993,984 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 182
Sectors/Track   63
Size    254.86 GB (273,655,065,600 bytes)
Total Cylinders        33,270
Total Sectors   534,482,550
Total Tracks    8,483,850
Tracks/Cylinder        255
Partition       Disk #4, Partition #0
Partition Size 254.86 GB (273,655,033,344 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 183
Sectors/Track  63
Size   534.59 GB (574,009,390,080 bytes)
Total Cylinders        69,786
Total Sectors  1,121,112,090
Total Tracks   17,795,430
Tracks/Cylinder        255
Partition      Disk #3, Partition #0
Partition Size 534.59 GB (574,009,357,824 bytes)
Partition Starting Offset     32,256 bytes

Description    Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer   Unisys Corporation
Model  DGC     RAID 10         0219
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 180
Sectors/Track  63
Size   254.86 GB (273,655,065,600 bytes)
Total Cylinders        33,270
Total Sectors  534,482,550
Total Tracks   8,483,850
Tracks/Cylinder        255
Partition      Disk #6, Partition #0
Partition Size 254.86 GB (273,655,033,344 bytes)
Partition Starting Offset     32,256 bytes

Description    Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer   Unisys Corporation
Model  DGC     RAID 10         0219
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 181
Sectors/Track  63
Size   534.59 GB (574,009,390,080 bytes)
Total Cylinders        69,786
Total Sectors  1,121,112,090
Total Tracks   17,795,430
Tracks/Cylinder        255
Partition      Disk #5, Partition #0
Partition Size 534.59 GB (574,009,357,824 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 96
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 #90, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #90, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #90, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #90, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 97
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 #89, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #89, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #89, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #89, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
```

```
Partition Starting Offset     34,019,758,080 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 98
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 #88, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #88, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #88, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #88, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 99
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 #87, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #87, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #87, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #87, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 100
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 #86, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #86, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #86, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #86, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 101
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 #85, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #85, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #85, Partition #2
```

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Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #85, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 102
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 #84, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #84, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #84, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #84, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 103
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 #83, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #83, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #83, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #83, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 104
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 #82, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #82, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #82, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #82, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 105
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 #81, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
```

```
Partition      Disk #81, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #81, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #81, Partition #3
Partition Size 207.57 GB (222,872,186,880 bytes)
Partition Starting Offset     34,019,758,080 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 106
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 #80, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #80, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #80, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #80, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 107
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 #79, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #79, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #79, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #79, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 156
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #30, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #30, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #30, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 157
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 #29, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #29, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #29, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #29, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 158
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #28, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #28, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #28, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 159
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #27, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #27, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #27, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 160
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #26, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #26, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #26, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 161
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #25, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #25, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #25, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 162
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #24, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #24, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #24, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 163
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #23, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #23, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #23, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 164
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #22, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #22, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #22, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 165
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #21, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #21, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #21, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 166
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #20, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #20, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #20, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 167
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #19, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #19, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #19, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #174, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #174, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #174, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #174, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 bytes

Description    Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer   Unisys Corporation
Model  UNISYS  VirtualStorage  01.0
Bytes/Sector   512
```

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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 #173, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #173, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #173, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #173, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #172, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #172, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #172, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #172, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #171, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #171, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #171, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #171, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #170, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #170, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #170, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #170, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #169, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #169, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #169, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #169, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #168, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #168, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #168, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #168, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #167, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #167, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #167, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #167, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #166, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #166, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #166, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
```

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Partition      Disk #166, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #165, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #165, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #165, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #165, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #164, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #164, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #164, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #164, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #163, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #163, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #163, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #163, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #150, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #150, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
```

```
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #150, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #150, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #149, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #149, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #149, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #149, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #148, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #148, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #148, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #148, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #147, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #147, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #147, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #147, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #146, Partition #0
```

```
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #146, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #146, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #146, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #145, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #145, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #145, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #145, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #144, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #144, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #144, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #144, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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   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 #143, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #143, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #143, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #143, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #142, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #142, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #142, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #142, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #141, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #141, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #141, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #141, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #140, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #140, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #140, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #140, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #139, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #139, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #139, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #139, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 168
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #18, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #18, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #18, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 169
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #17, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #17, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #17, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 170
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #16, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #16, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #16, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 171
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #15, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #15, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #15, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 172
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #14, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #14, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #14, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 173
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #13, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #13, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #13, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 174
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #12, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #12, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #12, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 175
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #11, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #11, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #11, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 176
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #10, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #10, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #10, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 177
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #9, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #9, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #9, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 178
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #8, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #8, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #8, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 179
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #7, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #7, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #7, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
```

```
Partition Starting Offset     34,019,758,080 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 #126, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #126, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #126, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #126, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #125, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #125, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #125, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #125, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #124, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #124, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #124, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #124, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #123, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #123, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #123, Partition #2
```

```
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #123, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 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 #122, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #122, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #122, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #122, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 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 #121, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #121, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #121, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #121, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 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 #120, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #120, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #120, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #120, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 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 #119, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
```

```
Partition      Disk #119, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #119, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #119, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 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 #118, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #118, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #118, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #118, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #117, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #117, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #117, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #117, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 70
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 #116, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #116, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #116, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #116, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 71
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 #115, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #115, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #115, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #115, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 84
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 #102, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #102, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #102, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #102, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 85
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 #101, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #101, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #101, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #101, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 86
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 #100, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #100, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #100, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #100, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 87
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 #99, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #99, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #99, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #99, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 88
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 #98, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #98, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #98, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #98, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 89
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 #97, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #97, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #97, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #97, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 90
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 #96, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #96, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #96, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #96, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 91
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 #95, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #95, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #95, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #95, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 92
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 #94, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #94, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #94, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #94, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 93
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 #93, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #93, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #93, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #93, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 94
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 #92, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #92, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #92, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #92, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 95
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 #91, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #91, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #91, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #91, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #138, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #138, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #138, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #138, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #137, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #137, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #137, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #137, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #136, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #136, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #136, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #136, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #135, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #135, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #135, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #135, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #134, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #134, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #134, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #134, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #133, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #133, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #133, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #133, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #132, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #132, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #132, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
```

```
Partition      Disk #132, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #131, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #131, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #131, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #131, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #130, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #130, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #130, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #130, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #129, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #129, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #129, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #129, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #128, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #128, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
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Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #128, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #128, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #127, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #127, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #127, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #127, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #186, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #186, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #186, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #186, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #185, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #185, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #185, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #185, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #184, Partition #0
```

```
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #184, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #184, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #184, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #183, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #183, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #183, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #183, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #182, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #182, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #182, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #182, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #181, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #181, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #181, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #181, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #180, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #180, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #180, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #180, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #179, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #179, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #179, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #179, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #178, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #178, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #178, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #178, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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   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 #177, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #177, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #177, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #177, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #176, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #176, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #176, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #176, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #175, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #175, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #175, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #175, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 144
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #42, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #42, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #42, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 145
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #41, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #41, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #41, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 146
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #40, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #40, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #40, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 147
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 #39, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #39, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #39, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #39, Partition #3
Partition Size 207.57 GB (222,872,186,880 bytes)
Partition Starting Offset     34,019,758,080 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 148
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #38, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #38, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #38, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 149
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #37, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #37, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #37, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 150
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #36, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #36, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #36, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 151
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #35, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #35, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #35, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 152
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #34, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #34, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #34, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 153
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #33, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #33, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #33, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
```

```
Partition Starting Offset     34,019,758,080 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 154
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #32, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #32, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #32, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 155
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #31, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #31, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #31, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 132
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #54, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #54, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #54, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 133
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #53, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #53, Partition #2
```

```
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #53, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 134
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #52, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #52, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #52, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 135
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #51, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #51, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #51, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 136
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #50, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #50, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #50, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 137
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
```

```
Partition      Disk #49, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #49, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #49, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 138
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #48, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #48, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #48, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 139
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #47, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #47, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #47, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 140
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #46, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #46, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #46, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 141
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #45, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #45, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #45, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 142
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #44, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #44, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #44, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 143
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #43, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #43, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #43, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #162, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #162, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #162, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #162, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #161, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #161, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #161, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #161, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #160, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #160, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #160, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #160, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #159, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #159, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #159, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #159, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #158, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #158, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #158, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #158, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #157, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #157, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #157, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #157, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #156, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #156, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #156, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #156, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #155, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #155, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #155, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #155, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #154, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #154, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #154, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #154, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #153, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #153, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #153, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #153, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #152, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #152, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #152, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #152, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 #151, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #151, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #151, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #151, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 120
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #66, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #66, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #66, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 121
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #65, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #65, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #65, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 122
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #64, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #64, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #64, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 123
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 #63, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #63, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #63, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #63, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 124
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #62, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #62, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
```

```
Partition      Disk #62, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 125
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #61, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #61, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #61, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 126
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #60, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #60, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #60, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 127
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #59, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #59, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #59, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 128
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #58, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
```

```
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #58, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #58, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 129
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #57, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #57, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #57, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 130
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #56, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #56, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #56, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 131
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #55, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #55, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #55, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 108
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 #78, Partition #0
```

```
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #78, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #78, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #78, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 109
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 #77, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #77, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #77, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #77, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 110
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 #76, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #76, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #76, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #76, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 111
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 #75, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #75, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #75, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #75, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 112
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 #74, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #74, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #74, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #74, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 113
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 #73, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #73, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #73, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #73, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 114
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #72, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #72, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #72, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 115
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #71, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #71, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #71, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 116
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #70, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #70, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #70, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 117
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #69, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #69, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #69, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 118
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #68, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #68, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #68, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 119
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 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #67, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #67, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #67, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 72
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 #114, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #114, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #114, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #114, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 73
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 #113, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #113, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #113, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #113, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 74
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 #112, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #112, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #112, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #112, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 75
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 #111, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #111, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #111, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #111, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 76
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 #110, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #110, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #110, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #110, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 77
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 #109, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #109, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #109, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #109, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 78
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 #108, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #108, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #108, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #108, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 79
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 #107, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #107, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #107, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #107, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
```

```
Partition Starting Offset     34,019,758,080 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 80
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 #106, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #106, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #106, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #106, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 81
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 #105, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #105, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #105, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #105, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 82
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 #104, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #104, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #104, Partition #2
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #104, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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 83
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 #103, Partition #0
Partition Size 9.68 GB (10,396,721,664 bytes)
Partition Starting Offset     32,256 bytes
Partition      Disk #103, Partition #1
Partition Size 14.56 GB (15,636,257,280 bytes)
Partition Starting Offset     10,396,753,920 bytes
Partition      Disk #103, Partition #2
```

```
Partition Size 7.44 GB (7,986,746,880 bytes)
Partition Starting Offset     26,033,011,200 bytes
Partition      Disk #103, Partition #3
Partition Size 87.94 GB (94,426,214,400 bytes)
Partition Starting Offset     34,019,758,080 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
Driver  c:\windows\system32\drivers\adp94xx.sys (1.0.317.627 built by:
WinDDK, 463.50 KB (474,624 bytes), 7/20/2005 8:42 PM)

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
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&260AC241&0&0008F8

Memory Address 0xE3000000-0xE5FFFFFF
Memory Address 0xE5FFF000-0xE5FFFFFF
IRQ Channel    IRQ 528
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&2D37A410&0&0008F8

Memory Address 0xDF000000-0xE2FFFFFF
Memory Address 0xE1FFF000-0xE1FFFFFF
IRQ Channel    IRQ 576
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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 0xD9000000-0xDBFFFFFF
Memory Address 0xDBFFF000-0xDBFFFFFF
IRQ Channel    IRQ 720
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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 0xD5000000-0xD5FFFFFF
Memory Address 0xD7FFF000-0xD7FFFFFF
IRQ Channel    IRQ 744
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

Name    Unisys Intelligent Fibre Channel Fabric Bus Adapter
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```
Manufacturer   Unisys Corporation
Status  OK
PNP Device ID
       PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&2933B8F6&0&0008F8

Memory Address 0xCF000000-0xD1FFFFFF
Memory Address 0xD1FFF000-0xD1FFFFFF
IRQ Channel    IRQ 912
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&70A2F0C&0&0008E8

Memory Address 0xCB000000-0xCBFFFFFF
Memory Address 0xCDFFF000-0xCDFFFFFF
IRQ Channel    IRQ 936
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&33DE6A4A&0&0008F8

Memory Address 0xC5000000-0xC7FFFFFF
Memory Address 0xC7EFF000-0xC7EFFFFF
IRQ Channel    IRQ 1104
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&24868C15&0&0008E8

Memory Address 0xC1000000-0xC1FFFFFF
Memory Address 0xC3FFF000-0xC3FFFFFF
IRQ Channel    IRQ 1128
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&32F12FFB&0&0008F8

Memory Address 0xC0000000-0xC4FFFFFF
Memory Address 0xC3EFF000-0xC3EFFFFF
IRQ Channel    IRQ 1152
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&1FCAD373&0&0008F8

Memory Address 0xBA000000-0xBCFFFFFF
Memory Address 0xBCEFF000-0xBCEFFFFF
IRQ Channel    IRQ 1488
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&8C6C24&0&0008E8

Memory Address 0xB6000000-0xB6FFFFFF
Memory Address 0xB8FFF000-0xB8FFFFFF
IRQ Channel    IRQ 1512
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&20C01AD6&0&0008F8

Memory Address 0xB2000000-0xB4FFFFFF
Memory Address 0xB4FFF000-0xB4FFFFFF
IRQ Channel    IRQ 1632
Driver  c:\windows\system32\drivers\ifxp.sys (02.058.00.018, 8.00 KB
(8,192 bytes), 7/25/2005 12:52 PM)

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&B668308&0&0008F8

Memory Address 0xAE000000-0xB1FFFFFF
Memory Address 0xB0FFF000-0xB0FFFFFF
IRQ Channel    IRQ 1680

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&2A5917F9&0&0008E8

Memory Address 0xAA000000-0xAAFFFFFF
Memory Address 0xACFFF000-0xACFFFFFF
IRQ Channel    IRQ 1704

[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
Driver  c:\windows\system32\drivers\intelide.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 9.00 KB (9,216 bytes), 7/20/2005 8:58 PM)


Name    Primary IDE Channel
Manufacturer   (Standard IDE ATA/ATAPI controllers)
Status  OK
PNP Device ID  PCIIDE\IDECHANNEL\4&291FD35B&0&0
I/O Port       0x000001F0-0x000001F7
I/O Port       0x000003F6-0x000003F6
IRQ Channel    IRQ 14
Driver  c:\windows\system32\drivers\atapi.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 145.00 KB (148,480 bytes), 3/25/2005 11:00
AM)

Name    Secondary IDE Channel
Manufacturer   (Standard IDE ATA/ATAPI controllers)
Status  OK
PNP Device ID  PCIIDE\IDECHANNEL\4&291FD35B&0&1
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), 145.00 KB (148,480 bytes), 3/25/2005 11:00
AM)

[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&1B2F0CE&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.
Intel(R) P64H2 PCI to PCI Bridge - 1460
        PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&4F64EAC&0&E8 This
device cannot start.
Intel(R) P64H2 PCI to PCI Bridge - 1460
        PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&23C5DBE&0&E8 This
device cannot start.
Intel(R) P64H2 PCI to PCI Bridge - 1460
        PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&27F1351&0&E8 This
device cannot start.
Intel(R) P64H2 PCI to PCI Bridge - 1460
        PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&57BB9D2&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      Normal  No      Yes
acpiec  ACPIEC  c:\windows\system32\drivers\acpiec.sys       Kernel Driver
        No      Disabled       Stopped OK      Normal  No      No
adp94xx adp94xx c:\windows\system32\drivers\adp94xx.sys      Kernel Driver
        Yes     Boot    Running OK      Normal  No      Yes
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      Normal  No      Yes
aic78u2 aic78u2 Not Available  Kernel Driver  No      Disabled
        Stopped OK      Normal  No      No
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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
        c:\windows\system32\drivers\arp1394.sys      Kernel Driver  No
        Manual  Stopped OK      Normal  No      No
asyncmac        RAS Asynchronous Media Driver
        c:\windows\system32\drivers\asyncmac.sys     Kernel Driver  No
        Manual  Stopped OK      Normal  No      No
atapi   Standard IDE/ESDI Hard Disk Controller
        c:\windows\system32\drivers\atapi.sys Kernel Driver  Yes     Boot
        Running OK      Normal  No      Yes
atdisk  Atdisk  Not Available  Kernel Driver  No      Disabled
        Stopped OK      Ignore  No      No
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
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
cpqcissm        cpqcissm        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\e1g5132e.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
        No      Manual  Stopped OK      Normal  No      No
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

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
hpcisss hpcisss 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
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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
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
lpxkdrvr        lpxkdrvr        c:\windows\system32\drivers\lpxkdrvr.sys
        Kernel Driver  Yes     Manual  Running OK      Normal  No      Yes

mnmdd   mnmdd   c:\windows\system32\drivers\mnmdd.sys Kernel Driver  Yes
        System  Running OK      Ignore  No      Yes
modem   Modem   c:\windows\system32\drivers\modem.sys Kernel Driver  No
        Manual  Stopped OK      Ignore  No      No
mouclass        Mouse Class Driver
        c:\windows\system32\drivers\mouclass.sys     Kernel Driver  Yes
        System  Running OK      Normal  No      Yes
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
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
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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\raspptp.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

raspppoe       Remote Access PPPOE Driver
        c:\windows\system32\drivers\raspppoe.sys     Kernel Driver  Yes
        Manual  Running OK      Normal  No      Yes
raspti  Direct Parallel        c:\windows\system32\drivers\raspti.sys
        Kernel Driver  Yes      Manual  Running OK      Normal  No      Yes

rdbss   Rdbss   c:\windows\system32\drivers\rdbss.sys File System Driver
        Yes     System  Running OK      Normal  No      Yes
rdpcdd  RDPCDD  c:\windows\system32\drivers\rdpcdd.sys       Kernel Driver
        Yes     System  Running OK      Ignore  No      Yes
rdpdr   Terminal Server Device Redirector Driver
        c:\windows\system32\drivers\rdpdr.sys Kernel Driver  Yes     Manual
        Running OK      Normal  No      Yes
rdpwd   RDPWD   c:\windows\system32\drivers\rdpwd.sys Kernel Driver  Yes
        Manual  Running OK      Ignore  No      Yes
redbook Digital CD Audio Playback Filter Driver
        c:\windows\system32\drivers\redbook.sys      Kernel Driver  Yes
        System  Running OK      Normal  No      Yes
secdrv  Security Driver        c:\windows\system32\drivers\secdrv.sys
        Kernel Driver  Yes      Auto    Running OK      Normal  No      Yes

sepdrv  sepdrv  \??\c:\windows\system32\drivers\sepdrv.sys   Kernel Driver
        Yes     System  Running OK      Normal  No      Yes
serenum Serenum Filter Driver  c:\windows\system32\drivers\serenum.sys
        Kernel Driver  No       Manual  Stopped OK      Normal  No      No

serial  Serial port driver     c:\windows\system32\drivers\serial.sys
        Kernel Driver  No       Manual  Stopped OK      Ignore  No      No

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
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
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
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
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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
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
00001000000000000001000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
00001000000000000002000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
00001000000000000003000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
00001000000000000004000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
00001000000000000005000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
00001000000000000006000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
00001000000000000007000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
00001000000000000008000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
00001000000000000009000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
0000100000000000000A000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
0000100000000000000B000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
        Not Available
        SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&2D12BED1&0&773F008610
0000100000000000000C000
Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
        2.58.0.7       7/26/2004      Unisys Corporation     oem7.inf
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Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
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Unisys Intelligent Fibre Channel Fabric Disk Driver  No      DISKDRIVE
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Unisys Intelligent Fibre Channel Fabric Bus Enumerator      No      SYSTEM
        2.58.0.52      7/26/2004      Unisys Corporation     oem8.inf
        Not Available  ROOT\SYSTEM\0003
Microsoft System Management BIOS Driver      No      SYSTEM  5.2.3790.1830
        10/1/2002      (Standard system devices)     machine.inf    Not
Available      ROOT\SYSTEM\0002
Microcode Update Device       No      SYSTEM  5.2.3790.1830  10/1/2002
        (Standard system devices)     machine.inf    Not Available
        ROOT\SYSTEM\0001
Plug and Play Software Device Enumerator     No      SYSTEM  5.2.3790.1830
        10/1/2002      (Standard system devices)     machine.inf    Not
Available      ROOT\SYSTEM\0000
Terminal Server Mouse Driver  No      SYSTEM  5.2.3790.1830  10/1/2002
        (Standard system devices)     machine.inf    Not Available
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Terminal Server Keyboard Driver      No      SYSTEM  5.2.3790.1830
        10/1/2002      (Standard system devices)     machine.inf    Not
Available      ROOT\RDP_KBD\0000
Terminal Server Device Redirector    No      SYSTEM  5.2.3790.1830
        10/1/2002      (Standard system devices)     machine.inf    Not
Available      ROOT\RDPDR\0000
Direct Parallel       No      NET     5.2.3790.1830  10/1/2002
        Microsoft      netrasa.inf    Not Available
        ROOT\MS_PTIMINIPORT\0000
WAN Miniport (PPTP)   No      NET     5.2.3790.1830  10/1/2002
        Microsoft      netrasa.inf    Not Available
        ROOT\MS_PPTPMINIPORT\0000
WAN Miniport (PPPOE)  No      NET     5.2.3790.1830  10/1/2002
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        ROOT\MS_PPPOEMINIPORT\0000
WAN Miniport (IP)     No      NET     5.2.3790.1830  10/1/2002
        Microsoft      netrasa.inf    Not Available
        ROOT\MS_NDISWANIP\0000
WAN Miniport (L2TP)   No      NET     5.2.3790.1830  10/1/2002
        Microsoft      netrasa.inf    Not Available
        ROOT\MS_L2TPMINIPORT\0000
Video Codecs   No      MEDIA   5.2.3790.1830  10/1/2002      (Standard
system devices)       wave.inf       Not Available  ROOT\MEDIA\MS_MMVID

Legacy Video Capture Devices  No      MEDIA   5.2.3790.1830  10/1/2002
        (Standard system devices)     wave.inf       Not Available
        ROOT\MEDIA\MS_MMVCD
Media Control Devices  No      MEDIA   5.2.3790.1830  10/1/2002
        (Standard system devices)     wave.inf       Not Available
        ROOT\MEDIA\MS_MMMCI
Legacy Audio Drivers   No      MEDIA   5.2.3790.1830  10/1/2002
        (Standard system devices)     wave.inf       Not Available
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Audio Codecs   No      MEDIA   5.2.3790.1830  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  Not Available
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volsnap Not Available  LEGACYDRIVER   Not Available  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  Not Available
        ROOT\LEGACY_VGASAVE\0000
TDTCP  Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_TDTCP\0000
TCP/IP Protocol Driver Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
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TbDriver       Not Available  LEGACYDRIVER   Not Available  Not Available
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sepdrv  Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_SEPDRV\0000

Security Driver       Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
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RDPWD  Not Available  LEGACYDRIVER   Not Available  Not Available  Not
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RDPCDD Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_RDPCDD\0000

Remote Access Auto Connection Driver Not Available  LEGACYDRIVER   Not
Available      Not Available  Not Available  Not Available  Not Available
        ROOT\LEGACY_RASACD\0000
PerformanceMonitor    Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
        ROOT\LEGACY_PERFORMANCEMONITOR\0000
PCIIde Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_PCIIDE\0000
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Partition Manager      Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
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Null   Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_NULL\0000
NetBios over Tcpip     Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
       ROOT\LEGACY_NETBT\0000
NDProxy Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_NDPROXY\0000

NDIS Usermode I/O Protocol    Not Available  LEGACYDRIVER   Not Available
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Remote Access NDIS TAPI Driver        Not Available  LEGACYDRIVER   Not
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       ROOT\LEGACY_NDISTAPI\0000
NDIS System Driver     Not Available  LEGACYDRIVER   Not Available  Not
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       ROOT\LEGACY_NDIS\0000
mountmgr       Not Available  LEGACYDRIVER   Not Available  Not Available
       Not Available  Not Available  Not Available
       ROOT\LEGACY_MOUNTMGR\0000
mnmdd  Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_MNMDD\0000
ksecdd Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_KSECDD\0000

kldbgdrv       Not Available  LEGACYDRIVER   Not Available  Not Available
       Not Available  Not Available  Not Available
       ROOT\LEGACY_KLDBGDRV\0000
IPSEC driver   Not Available  LEGACYDRIVER   Not Available  Not Available
       Not Available  Not Available  Not Available
       ROOT\LEGACY_IPSEC\0000
IP Network Address Translator Not Available  LEGACYDRIVER   Not Available
       Not Available  Not Available  Not Available  Not Available
       ROOT\LEGACY_IPNAT\0000
HTTP   Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_HTTP\0000
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      Not Available  Not Available  ROOT\LEGACY_FIPS\0000
em     Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_EM\0000
elxstor Not Available  LEGACYDRIVER   Not Available  Not Available  Not
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      Not Available  Not Available  ROOT\LEGACY_DMLOAD\0000

dmboot Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_DMBOOT\0000
CRC Disk Filter Driver Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
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CdaD10BA       Not Available  LEGACYDRIVER   Not Available  Not Available
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       ROOT\LEGACY_CDAD10BA\0000
CdaC15BA       Not Available  LEGACYDRIVER   Not Available  Not Available
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       ROOT\LEGACY_CDAC15BA\0000
Beep   Not Available  LEGACYDRIVER   Not Available  Not Available  Not
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1394 ARP Client Protocol      Not Available  LEGACYDRIVER   Not Available
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AFD    Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_AFD\0000
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Volume Manager No      SYSTEM  5.2.3790.1830  10/1/2002      (Standard
system devices)        machine.inf    Not Available  ROOT\FTDISK\0000

Generic volume No      VOLUME  5.2.3790.1830  10/1/2002      Microsoft
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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
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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 Processor        No      PROCESSOR      5.2.3790.1830  10/1/2002
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Intel Processor        No      PROCESSOR      5.2.3790.1830  10/1/2002
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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 Processor        No      PROCESSOR      5.2.3790.1830  10/1/2002
        Intel   cpu.inf Not Available  ACPI\GENUINEINTEL_-
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Intel Processor        No      PROCESSOR      5.2.3790.1830  10/1/2002
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Intel Processor        No      PROCESSOR      5.2.3790.1830  10/1/2002
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        Intel   cpu.inf Not Available  ACPI\GENUINEINTEL_-
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Intel Processor        No      PROCESSOR      5.2.3790.1830  10/1/2002
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Intel Processor        No      PROCESSOR      5.2.3790.1830  10/1/2002
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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 Processor        No      PROCESSOR      5.2.3790.1830  10/1/2002
        Intel   cpu.inf Not Available  ACPI\GENUINEINTEL_-
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Not Available  Not Available  Not Available  Not Available  Not Available
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Not Available  Not Available  Not Available  Not Available  Not Available
        Not Available  Not Available  Not Available  ACPI\UNO4500\0
Intel(R) P64H2 PCI Hot Plug Controller - 1462        No      SYSTEM
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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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Intel(R) P64H2 PCI Hot Plug Controller - 1462        No      SYSTEM
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Unisys Intelligent Fibre Channel Adapter SCSI Processor     No      SYSTEM
        2.58.0.6       7/26/2004      Unisys Corporation     oem6.inf
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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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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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Intel(R) P64H2 PCI Hot Plug Controller - 1462        No      SYSTEM
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Intel(R) P64H2 PCI to PCI Bridge - 1460      No      SYSTEM  5.2.3790.1830
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Unisys Intelligent Fibre Channel Adapter SCSI Processor     No      SYSTEM
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PCI standard PCI-to-PCI bridge        No      SYSTEM  5.2.3790.1830
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devices)       machine.inf    Not Available  ACPI\PNP0A03\48
Intel(R) P64H2 PCI Hot Plug Controller - 1462        No      SYSTEM
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        Not Available
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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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Unisys Intelligent Fibre Channel Adapter SCSI Processor      No      SYSTEM
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Intel(R) P64H2 I/O Advanced Programmable Interrupt Controller - 1461
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        Not Available
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PCI bus No      SYSTEM  5.2.3790.1830  10/1/2002      (Standard system
devices)       machine.inf    Not Available  ACPI\PNP0A03\40
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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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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Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.7
        2/27/2006      Emulex  oem13.inf      Not Available
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Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.7
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Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.7
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Unisys Intelligent Fibre Channel Adapter SCSI Processor     No      SYSTEM
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PCI standard PCI-to-PCI bridge       No      SYSTEM  5.2.3790.1830
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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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PCI standard PCI-to-PCI bridge        No      SYSTEM  5.2.3790.1830
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Intel(R) P64H2 PCI Hot Plug Controller - 1462        No      SYSTEM
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Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.7
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Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.7
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PCI bus No      SYSTEM  5.2.3790.1830  10/1/2002      (Standard system
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Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.7
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Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.7
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PCI bus No      SYSTEM  5.2.3790.1830  10/1/2002      (Standard system
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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 PCI Hot Plug Controller - 1462        No      SYSTEM
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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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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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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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Intel(R) P64H2 PCI Hot Plug Controller - 1462        No      SYSTEM
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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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PCI bus No      SYSTEM  5.2.3790.1830  10/1/2002      (Standard system
devices)        machine.inf    Not Available  ACPI\PNP0A03\21
Intel(R) P64H2 PCI Hot Plug Controller - 1462        No      SYSTEM
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Intel(R) P64H2 PCI to PCI Bridge - 1460      No      SYSTEM  5.2.3790.1830
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devices)        machine.inf    Not Available  ACPI\PNP0A03\20
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PCI standard PCI-to-PCI bridge        No      SYSTEM  5.2.3790.1830
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devices)        machine.inf    Not Available  ACPI\PNP0A03\18
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Unisys Intelligent Fibre Channel Adapter SCSI Processor     No      SYSTEM
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PCI standard PCI-to-PCI bridge        No      SYSTEM  5.2.3790.1830
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Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.7
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Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.7
        2/27/2006      Emulex  oem13.inf      Not Available
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Unisys Intelligent Fibre Channel Adapter SCSI Processor     No      SYSTEM
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PCI standard PCI-to-PCI bridge        No      SYSTEM  5.2.3790.1830
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Unisys Intelligent Fibre Channel Adapter SCSI Processor     No      SYSTEM
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       Not Available
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PCI standard PCI-to-PCI bridge       No      SYSTEM  5.2.3790.1830
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Emulex LP11000_FD01 - Unisys VI      No      UNISYS_VI      2.339.0.7
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Emulex LP11000_FD01 - Unisys VI      No      UNISYS_VI      2.339.0.7
       2/27/2006      Emulex  oem13.inf      Not Available
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Unisys Intelligent Fibre Channel Adapter SCSI Processor     No      SYSTEM
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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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PCI bus No      SYSTEM  5.2.3790.1830  10/1/2002      (Standard system
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Unisys Intelligent Fibre Channel Adapter SCSI Processor     No      SYSTEM
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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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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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PCI standard PCI-to-PCI bridge        No      SYSTEM  5.2.3790.1830
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Available
        PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\4&1EF5336&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&29E81982&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&29E81982&0&E0

PCI bus No      SYSTEM  5.2.3790.1830  10/1/2002      (Standard system
devices)       machine.inf    Not Available  ACPI\PNP0A03\3
Intel(R) P64H2 PCI Hot Plug Controller - 1462        No      SYSTEM
        5.2.3790.1830  10/1/2002      Intel   machine.inf    Not Available
        PCI\VEN_8086&DEV_1462&SUBSYS_14628086&REV_04\4&28BE6AA6&0&F8F8

Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.6
        2/27/2006      Emulex  oem11.inf      Not Available
        PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&28BE6AA6&0&09F8

Emulex LP11000_FD01 - Unisys VI       No      UNISYS_VI      2.339.0.6
        2/27/2006      Emulex  oem11.inf      Not Available
        PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&28BE6AA6&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&1070020&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&1070020&0&F0
Intel(R) PRO/1000 MT Dual Port Network Connection    No      NET
        8.1.8.0 10/1/2002      Intel   nete1g3e.inf   Not Available
        PCI\VEN_8086&DEV_1079&SUBSYS_10798086&REV_03\4&226B0D81&0&09E8

Intel(R) PRO/1000 MT Dual Port Network Connection    No      NET
        8.1.8.0 10/1/2002      Intel   nete1g3e.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_SD-
R6472_________________TR50____\355A313431323130383720202020202020202020

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

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

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_HUB\4&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_HUB\4&2498C13B&0
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_HUB\4&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

[Environment Variables]

Variable       Value   User Name
ClusterLog     C:\WINDOWS\Cluster\cluster.log        <SYSTEM>
ComSpec %SystemRoot%\system32\cmd.exe <SYSTEM>
FP_NO_HOST_CHECK       NO      <SYSTEM>
lib    C:\Program Files\SQLXML 4.0\bin\      <SYSTEM>
NUMBER_OF_PROCESSORS   64      <SYSTEM>
OS     Windows_NT     <SYSTEM>
Path
        %SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;C:\P
rogram 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\;C:\Program Files\Microsoft
SQL Server\80\Tools\binn      <SYSTEM>
PATHEXT .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH    <SYSTEM>

PROCESSOR_ARCHITECTURE AMD64   <SYSTEM>
PROCESSOR_IDENTIFIER   EM64T Family 15 Model 4 Stepping 8, GenuineIntel
        <SYSTEM>
PROCESSOR_LEVEL        15      <SYSTEM>
PROCESSOR_REVISION     0408    <SYSTEM>
TEMP   %SystemRoot%\TEMP      <SYSTEM>
TMP    %SystemRoot%\TEMP      <SYSTEM>
windir %SystemRoot%   <SYSTEM>
TEMP   %USERPROFILE%\Local Settings\Temp     NT AUTHORITY\SYSTEM
TMP    %USERPROFILE%\Local Settings\Temp     NT AUTHORITY\SYSTEM
TEMP   %USERPROFILE%\Local Settings\Temp     NT AUTHORITY\LOCAL SERVICE

TMP    %USERPROFILE%\Local Settings\Temp     NT AUTHORITY\LOCAL SERVICE

TEMP   %USERPROFILE%\Local Settings\Temp     NT AUTHORITY\NETWORK SERVICE

TMP    %USERPROFILE%\Local Settings\Temp     NT AUTHORITY\NETWORK SERVICE

TEMP   %USERPROFILE%\Local Settings\Temp     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        Host Print Queue
        Data Type      Name

[Network Connections]

Local Name     Remote Name    Type    Status  User Name

[Running Tasks]

Name   Path    Process ID     Priority       Min Working Set        Max
Working Set    Start Time     Version Size   File Date
system idle process   Not Available  0      0      Not Available  Not
Available      Not Available  Not Available  Not Available  Not Available

system Not Available  4      8      0      1413120 Not Available  Not
Available      Not Available  Not Available
smss.exe       Not Available  1044   11     204800  1413120 4/18/2006 4:34
PM     Not Available  Not Available  Not Available
```

```
csrss.exe      Not Available  1332   13     Not Available  Not Available
       4/18/2006 4:34 PM     Not Available  Not Available  Not Available

winlogon.exe   c:\windows\system32\winlogon.exe      1388   13     204800
       1413120 4/18/2006 4:34 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      1480   9      204800
       1413120 4/18/2006 4:34 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 1508   9      204800
       1413120 4/18/2006 4:34 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       1720   8      204800
       1413120 4/18/2006 4:34 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  1852   8      Not Available  Not Available
       4/18/2006 4:34 PM     Not Available  Not Available  Not Available

svchost.exe    c:\windows\system32\svchost.exe       1924   8      204800
       1413120 4/18/2006 4:34 PM     5.2.3790.1830 (srv03_sp1_rtm.050324-
1447)  24.50 KB (25,088 bytes)       3/25/2005 11:00 AM
mnmsrvc.exe    c:\windows\syswow64\mnmsrvc.exe       2028   8      204800
       1413120 4/18/2006 4:34 PM     5.2.3790.1830  32.00 KB (32,768
bytes) 7/21/2005 2:26 PM
rundll32.exe   c:\windows\system32\rundll32.exe      1124   8      204800
       1413120 4/18/2006 4:34 PM     5.2.3790.1830 (srv03_sp1_rtm.050324-
1447)  36.50 KB (37,376 bytes)       3/25/2005 11:00 AM
svchost.exe    Not Available  1136   8      Not Available  Not Available
       4/18/2006 4:34 PM     Not Available  Not Available  Not Available

svchost.exe    c:\windows\system32\svchost.exe       2216   8      204800
       1413120 4/18/2006 4:34 PM     5.2.3790.1830 (srv03_sp1_rtm.050324-
1447)  24.50 KB (25,088 bytes)       3/25/2005 11:00 AM
explorer.exe   c:\windows\explorer.exe       2724   8      204800
       1413120 4/18/2006 4:35 PM     6.00.3790.1830
(srv03_sp1_rtm.050324-1447)  1.30 MB (1,364,480 bytes)     3/25/2005
11:00 AM
wmiprvse.exe   Not Available  3060   8      Not Available  Not Available
       4/18/2006 4:35 PM     Not Available  Not Available  Not Available

csrss.exe      Not Available  1844   13     Not Available  Not Available
       4/18/2006 4:39 PM     Not Available  Not Available  Not Available

winlogon.exe   c:\windows\system32\winlogon.exe      824    13     204800
       1413120 4/18/2006 4:39 PM     5.2.3790.1830 (srv03_sp1_rtm.050324-
1447)  901.00 KB (922,624 bytes)     3/25/2005 11:00 AM
rdpclip.exe    c:\windows\system32\rdpclip.exe       2852   8      204800
       1413120 4/18/2006 4:39 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       2896   8      204800
       1413120 4/18/2006 4:39 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   2936   8      204800 1413120
       4/18/2006 4:39 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\binn\sqlservr.exe       1336   13     204800
       1413120 4/18/2006 4:39 PM     2005.090.2007.00       34.88 MB
(36,570,624 bytes)     3/1/2006 1:26 PM
sqlwb.exe      c:\program files (x86)\microsoft sql
server\90\tools\binn\vsshell\common7\ide\sqlwb.exe   2184   8      204800
       1413120 4/18/2006 4:46 PM     2005.090.1314.00       800.71 KB
(819,928 bytes)        9/3/2005 12:48 AM
wmiprvse.exe   Not Available  1812   8      Not Available  Not Available
       4/18/2006 4:47 PM     Not Available  Not Available  Not Available

taskmgr.exe    c:\windows\system32\taskmgr.exe       3392   13     204800
       1413120 4/18/2006 4:52 PM     5.2.3790.1830 (srv03_sp1_rtm.050324-
1447)  231.00 KB (236,544 bytes)     3/25/2005 11:00 AM
mmc.exe c:\windows\system32\mmc.exe   2400   8      204800 1413120
       4/18/2006 6:34 PM     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
       1.83 MB (1,920,512 bytes)     3/25/2005 11:00 AM
helpctr.exe    c:\windows\pchealth\helpctr\binaries\helpctr.exe     1696
       8      204800 1413120 4/18/2006 9:30 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     3568
       8      204800 1413120 4/18/2006 9:30 PM     5.2.3790.1830
(srv03_sp1_rtm.050324-1447)  1.52 MB (1,591,296 bytes)     7/21/2005 2:25
PM

[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
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
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
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
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
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
cscdll  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\cscdll.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
```

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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
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
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
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
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
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
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
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
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
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
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
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
umpnpmgr       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\umpnpmgr.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
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
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
```

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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
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
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
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
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
adsldpc 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\adsldpc.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
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
```

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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 6.00.3790.1830 (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
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
netcfgx 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)    1.29 MB (1,354,240
bytes)  3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\netcfgx.dll
winipsec       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)    52.50 KB
(53,760 bytes) 3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\winipsec.dll
mnmsrvc 5.2.3790.1830  32.00 KB (32,768 bytes)       7/21/2005 2:26 PM
        Microsoft Corporation  c:\windows\syswow64\mnmsrvc.exe
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
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
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
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
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wsock32 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\wsock32.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
browselc       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\browselc.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
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
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)
        3/1/2006 1:26 PM       Microsoft Corporation  c:\program
files\microsoft sql server\mssql.1\mssql\binn\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
msvcp80 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\msvcp80.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\binn\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
sqlevn70       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\binn\resources\1033\sqlevn70.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\binn\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
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\binn\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   2.339.0.7      55.00 KB (56,320 bytes)       2/22/2006 9:21 AM
        UNISYS  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
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sqlnclir       2005.090.1314.00       201.21 KB (206,040 bytes)
        9/3/2005 12:08 PM      Microsoft Corporation
        c:\windows\system32\sqlnclir.rll
xpstar90       2005.090.1314.00       521.21 KB (533,720 bytes)
        9/3/2005 12:13 PM      Microsoft Corporation  c:\program
files\microsoft sql server\mssql.1\mssql\binn\xpstar90.dll
sqlscm90       2005.090.1314.00       38.21 KB (39,128 bytes)
        9/3/2005 12:11 PM      Microsoft Corporation  c:\program
files\microsoft sql server\mssql.1\mssql\binn\sqlscm90.dll
odbc32  3.526.1830.0 (srv03_sp1_rtm.050324-1447)     408.00 KB (417,792
bytes)  3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\odbc32.dll
batchparser90  2005.090.1314.00       169.21 KB (173,272 bytes)
        9/3/2005 12:03 PM      Microsoft Corporation  c:\program
files\microsoft sql server\mssql.1\mssql\binn\batchparser90.dll
sqlsvc90       2005.090.1314.00       127.21 KB (130,264 bytes)
        9/3/2005 12:11 PM      Microsoft Corporation  c:\program
files\microsoft sql server\mssql.1\mssql\binn\sqlsvc90.dll
SqlResourceLoader      2005.090.1314.00       25.21 KB (25,816 bytes)
        9/3/2005 12:11 PM      Microsoft Corporation  c:\program
files\microsoft sql server\mssql.1\mssql\binn\sqlresourceloader.dll
atl80   8.00.50727.24  108.00 KB (110,592 bytes)     8/28/2005 8:51 PM
        Microsoft Corporation
        c:\windows\winsxs\amd64_microsoft.vc80.atl_1fc8b3b9a1e18e3b_8.0.50
727.24_x-ww_a0883da5\atl80.dll
odbcint 3.526.1830.0 (srv03_sp1_rtm.050324-1447)     96.00 KB (98,304
bytes)  3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\odbcint.dll
sqlsvc90       2005.090.1314.00       9.71 KB (9,944 bytes)  9/3/2005 12:06
PM      Microsoft Corporation  c:\program files\microsoft sql
server\mssql.1\mssql\binn\resources\1033\sqlsvc90.rll
xpstar90       2005.090.1314.00       149.21 KB (152,792 bytes)
        9/3/2005 12:08 PM      Microsoft Corporation  c:\program
files\microsoft sql server\mssql.1\mssql\binn\resources\1033\xpstar90.rll

sqlwb   2005.090.1314.00       800.71 KB (819,928 bytes)     9/3/2005 12:48
AM      Microsoft Corporation  c:\program files (x86)\microsoft sql
server\90\tools\binn\vsshell\common7\ide\sqlwb.exe
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
mmc     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)    1.83 MB (1,920,512
bytes)  3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\mmc.exe
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
mmcbase 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)    106.50 KB (109,056
bytes)  3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\mmcbase.dll
oleacc  4.2.5406.0 (srv03_sp1_rtm.050324-1447)       374.50 KB (383,488
bytes)  3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\oleacc.dll
mmcndmgr       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)    2.23 MB
(2,336,256 bytes)      3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\mmcndmgr.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
smlogcfg       5.2.3790.1830 (srv03_sp1_rtm.050324-1447)    711.50 KB
(728,576 bytes)        3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\smlogcfg.dll
pdh     5.2.3790.1830 (srv03_sp1_rtm.050324-1447)    563.00 KB (576,512
bytes)  3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\pdh.dll
odbcbcp 2000.086.1830.00 (srv03_sp1_rtm.050324-1447) 32.00 KB (32,768
bytes)  3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\odbcbcp.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
sysmon  5.2.3790.1830 (srv03_sp1_rtm.050324-1447)    392.50 KB (401,920
bytes)  3/25/2005 11:00 AM     Microsoft Corporation
        c:\windows\system32\sysmon.ocx
perfdisk       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\perfdisk.dll
perfos  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\perfos.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
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
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
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
mshtmled       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\mshtmled.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
```

```
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
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

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
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\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 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  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 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)\hbanyware\rmserver.exe"      Normal
        LocalSystem    0
Emulex HBAnyware Discovery    Emulex HBAnyware Discovery    Stopped Manual
        Own Process    "c:\program files (x86)\hbanyware\hbadiscsrvr.exe"
        Normal  LocalSystem    0
Emulex HBAnyware SvcMgr       Emulex HBAnyware SvcMgr       Stopped Manual
        Own Process    "c:\program files (x86)\hbanyware\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       Stopped Manual
        Own Process    "c:\program files\microsoft sql
server\mssql.1\mssql\binn\msftesql.exe" -s:mssql.1 -f:mssqlserver   Normal
        LocalSystem    0
Windows Installer      MSIServer      Stopped Manual  Share Process
        c:\windows\system32\msiexec.exe /v    Normal  LocalSystem    0

SQL Server (MSSQLSERVER)      MSSQLSERVER    Stopped Manual  Own Process
        "c:\program files\microsoft sql
server\mssql.1\mssql\binn\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 Stopped Manual  Share Process
        c:\windows\system32\lsass.exe Normal  LocalSystem    0
Removable Storage      NtmsSvc Stopped Manual  Share Process
        c:\windows\system32\svchost.exe -k netsvcs   Normal  LocalSystem
        0
Office Source Engine   ose    Stopped Manual  Own Process    "c:\program
files (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       Stopped Manual  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\binn\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 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 Manual  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\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 netsvcs   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 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      wuauserv       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

Debugging Tools for Windows 64-bit    All Users:Debugging Tools for
Windows 64-bit All Users
Emulex  All Users:Emulex       All Users
Microsoft Platform SDK for Windows Server 2003 SP1   All Users:Microsoft
Platform SDK for Windows Server 2003 SP1     All Users
```

```
Microsoft Platform SDK for Windows Server 2003 SP1\Open Build Environment
Window  All Users:Microsoft Platform SDK for Windows Server 2003 SP1\Open
Build Environment Window      All Users
Microsoft Platform SDK for Windows Server 2003 SP1\Open Build Environment
Window\Windows 2000 Build Environment All Users:Microsoft Platform SDK for
Windows Server 2003 SP1\Open Build Environment Window\Windows 2000 Build
Environment    All Users
Microsoft Platform SDK for Windows Server 2003 SP1\Open Build Environment
Window\Windows Server 2003 32-bit Build Environment  All Users:Microsoft
Platform SDK for Windows Server 2003 SP1\Open Build Environment
Window\Windows Server 2003 32-bit Build Environment  All Users
Microsoft Platform SDK for Windows Server 2003 SP1\Open Build Environment
Window\Windows Server 2003 64-bit Build Environment  All Users:Microsoft
Platform SDK for Windows Server 2003 SP1\Open Build Environment
Window\Windows Server 2003 64-bit Build Environment  All Users
Microsoft Platform SDK for Windows Server 2003 SP1\Open Build Environment
Window\Windows XP 32-bit Build Environment   All Users:Microsoft Platform
SDK for Windows Server 2003 SP1\Open Build Environment Window\Windows XP
32-bit Build Environment      All Users
Microsoft Platform SDK for Windows Server 2003 SP1\Open Build Environment
Window\Windows XP 64-bit Build Environment   All Users:Microsoft Platform
SDK for Windows Server 2003 SP1\Open Build Environment Window\Windows XP
64-bit Build Environment      All Users
Microsoft Platform SDK for Windows Server 2003 SP1\Visual Studio
Registration   All Users:Microsoft Platform SDK for Windows Server 2003
SP1\Visual Studio Registration       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
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
DWQueuedReporting      "c:\progra~1\common~1\micros~1\dw\dwtrig20.exe" -t
       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 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
advpack.dll    6.0.3790.1830  146 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
asctrls.ocx    6.0.3790.1830  147 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
browselc.dll   6.0.3790.1830  63 KB   3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
browseui.dll   6.0.3790.1830  1,564 KB       3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
cdfview.dll    6.0.3790.1830  216 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
comctl32.dll   5.82.3790.1830 935 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
dxtrans.dll    6.3.3790.1830  320 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
dxtmsft.dll    6.3.3790.1830  549 KB  3/25/2005 12:00:00 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 417 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
iepeers.dll    6.0.3790.1830  361 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
iesetup.dll    6.0.3790.1830  71 KB   3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
ieuinit.inf    Not Available  24 KB   3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Not Available
iexplore.exe   6.0.3790.1830  94 KB   3/25/2005 12:00:00 PM  C:\Program
Files\Internet Explorer        Microsoft Corporation
imgutil.dll    6.0.3790.1830  61 KB   3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
inetcpl.cpl    6.0.3790.1830  428 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
inetcplc.dll   6.0.3790.1830  110 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
inseng.dll     6.0.3790.1830  147 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
mlang.dll      6.0.3790.1830  686 KB  3/25/2005 12:00:00 PM
        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 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
mshtml.dll     6.0.3790.1830  5,790 KB       3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
mshtml.tlb     6.0.3790.1830  1,320 KB       3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
mshtmled.dll   6.0.3790.1830  906 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
mshtmler.dll   6.0.3790.1830  56 KB   3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
msident.dll    6.0.3790.1830  69 KB   3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
msidntld.dll   6.0.3790.1830  16 KB   3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
msieftp.dll    6.0.3790.1830  369 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
msrating.dll   6.0.3790.1830  240 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
mstime.dll     6.0.3790.1830  878 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
occache.dll    6.0.3790.1830  126 KB  3/25/2005 12:00:00 PM
        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 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
shdoclc.dll    6.0.3790.1830  590 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
shdocvw.dll    6.0.3790.1830  2,360 KB       3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
shfolder.dll   6.0.3790.1830  34 KB   3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
shlwapi.dll    6.0.3790.1830  607 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
tdc.ocx 1.3.0.3130     91 KB   3/25/2005 12:00:00 PM  C:\WINDOWS\system32
        Microsoft Corporation
url.dll 6.0.3790.1830  40 KB   3/25/2005 12:00:00 PM  C:\WINDOWS\system32
        Microsoft Corporation
urlmon.dll     6.0.3790.1830  1,049 KB       3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
webcheck.dll   6.0.3790.1830  439 KB  3/25/2005 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
wininet.dll    6.0.3790.1830  1,159 KB       3/25/2005 12:00:00 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  Low
Internet       Custom
Restricted sites       Custom
```

Windows Enterprise Server Registry Information

Software_Microsoft_MicrosoftSQLServer

```
\registry\machine\SOFTWARE\Microsoft\Microsoft SQL Server
    SsrpActiveServer =
    InstalledInstances = REG_MULTI_SZ "MSSQLSERVER"
    90
        SharedCode = C:\Program Files\Microsoft SQL Server\90\Shared\
        VerSpecificRootDir = C:\Program Files\Microsoft SQL Server\90\
        EnableErrorReporting = REG_DWORD 0x00000000
        ErrorReportingDir = C:\Program Files\Microsoft SQL
Server\90\Shared\ErrorDumps\
        CustomerFeedback = REG_DWORD 0x00000000
        TimeOfReporting = REG_DWORD 0x000000f0
        CollectorParameters =
        Bootstrap
            BootstrapDir = C:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\
            MSIRefCount

                Uninstall = {11111111-1111-1111-1111-
111111111111},{79F1B65E-8FC0-4D03-954D-F9E71C85AEC7},{73D8B59D-0BFF-4B5B-
A031-FAB3AC629E56}
            Setup
                PatchLevel = 9.00.1314.06
        Cost
            SQLSetup = 8388608
            MSXML6 = 15728640
            ToolsSetup = 26214400
            PPESku = 157286400
            owc11 = 4194304
            sqlxml4 = 8388608
            bol = 178257920
        Machines [1 17]
            OriginalMachineName = TPCC-ZORRO
        NodeConfiguration
            Node0
                CPUMask = REG_BINARY 0x00000008 0x000000fe 0x00000000
            Node1
                CPUMask = REG_BINARY 0x00000008 0x0000ff00 0x00000000
            Node2
                CPUMask = REG_BINARY 0x00000008 0x00ff0000 0x00000000
            Node3
                CPUMask = REG_BINARY 0x00000008 0xff000000 0x00000000
            Node4
                CPUMask = REG_BINARY 0x00000008 0x00000000 0x000000ff
            Node5
                CPUMask = REG_BINARY 0x00000008 0x00000000 0x0000ff00
            Node6
                CPUMask = REG_BINARY 0x00000008 0x00000000 0x00ff0000
            Node7
                CPUMask = REG_BINARY 0x00000008 0x00000000 0xff000000
            Node8
                CPUMask = REG_BINARY 0x00000008 0x00000001 0x00000000
        Tools
            ClientSetup
                SQLBinRoot = C:\Program Files\Microsoft SQL
Server\90\Shared\
```

```
                SQLPath = C:\Program Files\Microsoft SQL Server\90\Tools
                Path = C:\Program Files\Microsoft SQL
Server\90\Tools\binn\

                checksum = REG_BINARY 0x000000b9 0x66333139 0x65306666
0x62323862 0x62373430 0x31353031 0x31323836 0x62633030 0x38616639
0x63636264 0x37353531 0x65346233 0x33393033 0x30393037 0x30373265
0x65323537 0x33623237 0x35346533 \

                            0x38636430 0x32633533 0x66393062 0x31383137
0x61306430 0x31353164 0x61313265 0x64353366 0x33376262 0x31303733
0x62313632 0x32326239 0x35323466 0x66656536 0x32653236 0x39306334
0x66326130 0x39323531 0x32613132 \

                            0x38636662 0x30303939 0x39373932 0x65613839
0x61373031 0x33303063 0x31373832 0x66343864 0x36323563 0x64626533
0x00000000
                CurrentVersion
                    Language = REG_DWORD 0x00000409
                    CurrentVersion = 9.00.1314.06
            Service Manager
                Services = REG_MULTI_SZ ";"
            Setup
                Version = 9.00.1314.06
                Language = REG_DWORD 0x00000409
                ProductCode = {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

                FeatureList = 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
                PatchLevel = 9.00.1314.06
                SQLPath = C:\Program Files\Microsoft SQL Server\90\Tools\

                checksum = REG_BINARY 0x000000b9 0x66333139 0x65306666
0x62323862 0x62373430 0x31353031 0x31323836 0x62633030 0x38616639
0x63636264 0x37353531 0x65346233 0x33393033 0x30393037 0x30373265
0x65323537 0x33623237 0x35346533 \

                            0x38636430 0x32633533 0x66393062 0x31383137
0x61306430 0x31353164 0x61313265 0x64353366 0x33376262 0x31303733
0x62313632 0x32326239 0x35323466 0x66656536 0x32653236 0x39306334
0x66326130 0x39323531 0x32613132 \

                            0x38636662 0x30303939 0x39373932 0x65613839
0x61373031 0x33303063 0x31373832 0x66343864 0x36323563 0x64626533
0x00000000
                Edition = Enterprise Edition (64-bit)
            Shortcut
                SQL Server Error and Usage Reporting
                    1033 =
        Uninstall Info
            {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}
                Product = Client_Components
                SetupHive = 90\Tools

                RemoveList =
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_AdventureWorksASSamples,\
                            SQL_Samples

                ModifyPath = "C:\Program Files\Microsoft SQL
Server\90\Setup Bootstrap\setup.exe" /resumesetup /productcode {73D8B59D-
0BFF-4B5B-A031-FAB3AC629E56} /I {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

                UninstallPath = "C:\Program Files\Microsoft SQL
Server\90\Setup Bootstrap\setup.exe" /resumesetup /productcode {73D8B59D-
0BFF-4B5B-A031-FAB3AC629E56} /X {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}
                Status = REG_DWORD 0x00000000
            {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}
                Product = SQL_Engine
                SetupHive = MSSQL.1
                RemoveList =
SQL_Engine,SQL_Data_Files,SQL_Replication,SQL_FullText,SQL_SharedTools,SQL
_BC_DEP

                ModifyPath = "C:\Program Files\Microsoft SQL
Server\90\Setup Bootstrap\setup.exe" /resumesetup /productcode {79F1B65E-
8FC0-4D03-954D-F9E71C85AEC7} /I {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}

                UninstallPath = "C:\Program Files\Microsoft SQL
Server\90\Setup Bootstrap\setup.exe" /resumesetup /productcode {79F1B65E-
8FC0-4D03-954D-F9E71C85AEC7} /X {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}
                Status = REG_DWORD 0x00000000
    BC
        CurrentVersion
            Version = 8.05.1041
        MSIRefCount

            Uninstall = {11111111-1111-1111-1111-111111111111},{79F1B65E-
8FC0-4D03-954D-F9E71C85AEC7},{73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}
    ExceptionMessageBox
        ShowFeedbackButton = REG_DWORD 0x00000001
    Instance Names
        SQL
            MSSQLSERVER = MSSQL.1
    MSSQL.1
        = MSSQLSERVER
        CPE
            ErrorDumpDir = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\LOG\
            EnableErrorReporting = REG_DWORD 0x00000000
            CustomerFeedback = REG_DWORD 0x00000000
            TimeOfReporting = REG_DWORD 0x0000003c
            CollectorParameters = SQL MSSQL.1
        MSSearch
            CLSID
                {01C6B350-12C7-11CE-BD31-00AA004BBB1F}
                    = infosoft.dll
                {12CE94A0-DEFB-11D2-B31D-00600893A857}
                    = chsbrkr.dll
                {1305C72E-2073-452E-A72D-667032B3B4FE}
                    = msir5jp.dll
```

```
{1680E7C3-9430-4A51-9B82-1E7E7AEE5258}
    = chtbrkr.dll
{173C97E2-AEBE-437C-9445-01B237ABF2F6}
    = langwrbk.dll
{188D6CC5-CB03-4C01-912E-47D21295D77E}
    = langwrbk.dll
{2A6EB050-7F1C-11CE-BE57-00AA0051FE20}
    = infosoft.dll
{41B9BE05-B3AF-460C-BF0B-2CDD44A093B1}
    = xmlfilt.dll
    ThreadingModel = Both
{52F1DEDC-C51B-11D2-9A7C-00004F6888ED}
    = msfte.dll
    ThreadingModel = Both
{66B37110-8BF2-11CE-BE59-00AA0051FE20}
    = infosoft.dll
{68C6D24E-77E0-11D5-8528-00C04F68155C}
    = msfte.dll
{6D36CE10-7F1C-11CE-BE57-00AA0051FE20}
    = infosoft.dll
{6DE705A5-6467-43DC-9CE3-CCFE08B3F645}
    = nls400.dll
{737FC9B5-BC66-4953-B7DB-B79A72A592A5}
    = korwbrkr.dll
{73D009FB-7D05-45AC-94C2-EDD1029942D4}
    = langwrbk.dll
{860D28D0-8BF4-11CE-BE59-00AA0051FE20}
    = infosoft.dll
{9478F640-7F1C-11CE-BE57-00AA0051FE20}
    = infosoft.dll
{95679344-48B8-42CD-9B79-2F5784D70258}
    = langwrbk.dll
{97E8EFC5-42DA-43ED-9CEC-84FDE3620F1A}
    = korwbrkr.dll
{9EA69E16-AD5E-43ED-B90E-73D58771D3F6}
    = nls400.dll
{A9FFAE02-D834-47B3-8434-0D75DC0804BD}
    = msir5jp.dll
{B0516FF0-7F1C-11CE-BE57-00AA0051FE20}
    = infosoft.dll
{C731071F-AC80-11D1-8DF3-00C04FB6EF4F}
    = msfte.dll
{C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    = msfte.dll
    ThreadingModel = Both
{CCA22CF4-59FE-11D1-BBFF-00C04FB97FDA}
    = thawbrkr.dll
{CEDC01C7-59FE-11D1-BBFF-00C04FB97FDA}
    = thawbrkr.dll
{D99F7670-7F1A-11CE-BE57-00AA0051FE20}
    = infosoft.dll
{E0CA5340-4534-11CF-B952-00AA0051FE20}
    = nlhtml.dll
    ThreadingModel = Both
{EEED4C20-7F1B-11CE-BE57-00AA0051FE20}
    = infosoft.dll
{F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    = offfilt.dll
    ThreadingModel = Both
    Flags = REG_DWORD 0x00000001
{FD86B5D0-12C6-11CE-BD31-00AA004BBB1F}
    = infosoft.dll
Filters
    .ascx
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    .asm
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .asp
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    .aspx
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    .bat
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .c
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .cmd
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .cpp
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .cxx
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .def
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .dic
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .doc
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    .dot
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    .h
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .hhc
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    .hpp
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .htm
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    .html
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    .htw
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    .htx
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    .hxx
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .ibq
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .idl
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .inc
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .inf
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .ini
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    .inx
```

```
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.js
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.log
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.m3u
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.mht
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.obd
    = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
.obt
    = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
.odc
    = {E0CA5340-4534-11CF-B952-00AA0051FE20}
.pl
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.pot
    = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
.ppt
    = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
.rc
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.reg
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.rtf
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.stm
    = {E0CA5340-4534-11CF-B952-00AA0051FE20}
.txt
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.url
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.vbs
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.wtx
    = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
.xlb
    = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
.xlc
    = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
.xls
    = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
.xlt
    = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
.xml
    = {41B9BE05-B3AF-460C-BF0B-2CDD44A093B1}
CLSID
    {00020810-0000-0000-C000-000000000046}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    {00020811-0000-0000-C000-000000000046}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    {00020820-0000-0000-C000-000000000046}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    {00020821-0000-0000-C000-000000000046}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    {00020900-0000-0000-C000-000000000046}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    {00020906-0000-0000-C000-000000000046}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    {25336920-03F9-11CF-8FD0-00AA00686F13}
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    {59850400-6664-101B-B21C-00AA004BA90B}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    {5E941D80-BF96-11CD-B579-08002B30BFEB}
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    {64818D10-4F9B-11CF-86EA-00AA00B929E8}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    {64818D11-4F9B-11CF-86EA-00AA00B929E8}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
    {7F73B8F6-C19C-11D0-AA66-00C04FC2EDDC}
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    {87DB1ADA-AA39-11D1-829F-00A0C906B239}
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    {89BCB7A4-6119-101A-BCB7-00DD010655AF}
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    {8C9E8E1C-90F0-11D1-BA0F-00A0C906B239}
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    {95876EB0-90F0-11D1-BA0F-00A0C906B239}
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    {961C1130-89AD-11CF-88A1-00AA004B9986}
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    {9ED4692C-90F0-11D1-BA0F-00A0C906B239}
        = {C7310720-AC80-11D1-8DF3-00C04FB6EF4F}
    {BD70C020-2D24-11D0-9110-00004C752752}
        = {E0CA5340-4534-11CF-B952-00AA0051FE20}
    {EA7BAE70-FB3B-11CD-A903-00AA00510EA3}
        = {F07F3920-7B8C-11CF-9BE8-00AA004B9986}
GlobalAdminBlob

    Blob0 = REG_BINARY 0x00000298 0x80000000 0x00000298
0x00150006 0x00540046 0x005f0045 0x00650052 0x00610074 0x006c0069
0x00720054 0x00630061 0x006e0069 0x00500067 0x00740061 0x00000068
0x00370008 0x003a0043 0x0050005c \

                        0x006f0072 0x00720067 0x006d0061 0x00460020
0x006c0069 0x00730065 0x004d005c 0x00630069 0x006f0072 0x006f0073
0x00740066 0x00530020 0x004c0051 0x00530020 0x00720065 0x00650076
0x005c0072 0x0053004d 0x00510053 \

                        0x002e004c 0x005c0031 0x0053004d 0x00510053
0x005c004c 0x004f004c 0x00000047 0x00460014 0x00450054 0x0053005f
0x004c0051 0x00750044 0x0070006d 0x00720065 0x00750044 0x0070006d
0x00690044 0x00000072 0x00370008 \

                        0x003a0043 0x0050005c 0x006f0072 0x00720067
0x006d0061 0x00460020 0x006c0069 0x00730065 0x004d005c 0x00630069
0x006f0072 0x006f0073 0x00740066 0x00530020 0x004c0051 0x00530020
0x00720065 0x00650076 0x005c0072 \

                        0x0053004d 0x00510053 0x002e004c 0x005c0031
0x0053004d 0x00510053 0x005c004c 0x004f004c 0x00000047 0x00460012
0x00450054 0x0053005f 0x004c0051 0x00750044 0x0070006d 0x00720065
0x006c0046 0x00670061 0x00000073 \
```

```
                        0x00060008 0x00780030 0x00380030 0x00300030
0x00150000 0x00540046 0x005f0045 0x00510053 0x0044004c 0x006d0075
0x00650070 0x00460072 0x006c0075 0x0050006c 0x00740061 0x00000068
0x003d0008 0x003a0043 0x0050005c \

                        0x006f0072 0x00720067 0x006d0061 0x00460020
0x006c0069 0x00730065 0x004d005c 0x00630069 0x006f0072 0x006f0073
0x00740066 0x00530020 0x004c0051 0x00530020 0x00720065 0x00650076
0x005c0072 0x00300039 0x0053005c \

                        0x00610068 0x00650072 0x005c0064 0x00710073
0x0064006c 0x006d0075 0x00650070 0x002e0072 0x00780065 0x00000065
0x00460011 0x00450054 0x0045005f 0x00720072 0x0072006f 0x006f0043
0x006e0075 0x004d0074 0x00780061 \

                        0x00130000 0x00000000 0x00460015 0x00450054
0x0050005f 0x006f0072 0x00650063 0x00730073 0x0072006f 0x00660041
0x00690066 0x0069006e 0x00790074 0x00150000 0xffffffff 0x00000000
            Language
                chs
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisechs.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tschs.xml
                    Locale = REG_DWORD 0x00000804
                    WBreakerClass = {12CE94A0-DEFB-11D2-B31D-00600893A857}
                cht
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisecht.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tscht.xml
                    Locale = REG_DWORD 0x00000404
                    WBreakerClass = {1680E7C3-9430-4A51-9B82-1E7E7AEE5258}
                deu
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisedeu.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsdeu.xml
                    Locale = REG_DWORD 0x00000407
                    WBreakerClass = {9EA69E16-AD5E-43ED-B90E-73D58771D3F6}
                    StemmerClass = {6DE705A5-6467-43DC-9CE3-CCFE08B3F645}
                eng
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseeng.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tseng.xml
                    StemmerClass = {D99F7670-7F1A-11CE-BE57-00AA0051FE20}
                    Locale = REG_DWORD 0x00000809
                    WBreakerClass = {173C97E2-AEBE-437C-9445-01B237ABF2F6}
                enu
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseenu.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsenu.xml
                    StemmerClass = {EEED4C20-7F1B-11CE-BE57-00AA0051FE20}
                    Locale = REG_DWORD 0x00000409
                    WBreakerClass = {188D6CC5-CB03-4C01-912E-47D21295D77E}
                esn
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseesn.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsesn.xml
                    StemmerClass = {B0516FF0-7F1C-11CE-BE57-00AA0051FE20}
                    Locale = REG_DWORD 0x00000c0a
                    WBreakerClass = {73D009FB-7D05-45AC-94C2-EDD1029942D4}
                fra
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisefra.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsfra.xml
                    StemmerClass = {2A6EB050-7F1C-11CE-BE57-00AA0051FE20}
                    Locale = REG_DWORD 0x0000040c
                    WBreakerClass = {95679344-48B8-42CD-9B79-2F5784D70258}
                ita
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseita.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsita.xml
                    Locale = REG_DWORD 0x00000410
                    WBreakerClass = {FD86B5D0-12C6-11CE-BD31-00AA004BBB1F}
                    StemmerClass = {6D36CE10-7F1C-11CE-BE57-00AA0051FE20}
                jpn
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisejpn.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsjpn.xml
                    Locale = REG_DWORD 0x00000411
                    WBreakerClass = {A9FFAE02-D834-47B3-8434-0D75DC0804BD}
                    StemmerClass = {1305C72E-2073-452E-A72D-667032B3B4FE}
                kor
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisekor.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tskor.xml
                    Locale = REG_DWORD 0x00000412
                    WBreakerClass = {737FC9B5-BC66-4953-B7DB-B79A72A592A5}
                    StemmerClass = {97E8EFC5-42DA-43ED-9CEC-84FDE3620F1A}
                Neutral
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noiseneu.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsglobal.xml
                    Locale = REG_DWORD 0x00000000
                    WBreakerClass = {C731071F-AC80-11D1-8DF3-00C04FB6EF4F}
                nld
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisenld.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tsnld.xml
                    Locale = REG_DWORD 0x00000413
                    WBreakerClass = {66B37110-8BF2-11CE-BE59-00AA0051FE20}
                    StemmerClass = {860D28D0-8BF4-11CE-BE59-00AA0051FE20}
                sve
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisesve.txt
```

```
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tssve.xml
                    Locale = REG_DWORD 0x0000041d
                    WBreakerClass = {01C6B350-12C7-11CE-BD31-00AA004BBB1F}
                    StemmerClass = {9478F640-7F1C-11CE-BE57-00AA0051FE20}
                tha
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisetha.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tstha.xml
                    Locale = REG_DWORD 0x0000041e
                    WBreakerClass = {CCA22CF4-59FE-11D1-BBFF-00C04FB97FDA}
                    StemmerClass = {CEDC01C7-59FE-11D1-BBFF-00C04FB97FDA}
                zh-hk
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisecht.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tscht.xml
                    Locale = REG_DWORD 0x00000c04
                    WBreakerClass = {1680E7C3-9430-4A51-9B82-1E7E7AEE5258}
                zh-mo
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisecht.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tscht.xml
                    Locale = REG_DWORD 0x00001404
                    WBreakerClass = {1680E7C3-9430-4A51-9B82-1E7E7AEE5258}
                zh-sg
                    NoiseFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\noisechs.txt
                    TsaurusFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData\tschs.xml
                    Locale = REG_DWORD 0x00001004
                    WBreakerClass = {12CE94A0-DEFB-11D2-B31D-00600893A857}
            Plugins
                MicrosoftIndexer
                    = {68C6D24E-77E0-11D5-8528-00C04F68155C}
        MSSQLServer
            AuditLevel = REG_DWORD 0x00000002
            DebugClassID = {1D999205-8861-4E2C-B5E5-9A122070922C}
            DefaultLogin = guest
            LoginMode = REG_DWORD 0x00000002
            Map_ = \
            Map# = -
            Map$ =
            SetHostName = REG_DWORD 0x00000000
            Tapeloadwaittime = REG_DWORD 0xffffffff
            BackupDirectory = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\Backup
            SysDb = REG_DWORD 0x00000001
            FullTextDefaultPath = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\FTData
            uptime_pid = REG_DWORD 0x00000ad4
            uptime_time_utc = REG_BINARY 0x00000008 0xe2188c56 0x01c668ab
            CurrentVersion
                Language = REG_DWORD 0x00000409
                CurrentVersion = 9.00.1314.06
                RegisteredOwner =
                SerialNumber =
            Parameters
                SQLArg0 = -dC:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\DATA\master.mdf
                SQLArg1 = -eC:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\LOG\ERRORLOG
                SQLArg2 = -lC:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\DATA\mastlog.ldf
            SuperSocketNetLib
                ForceEncryption = REG_DWORD 0x00000000
                HideInstance = REG_DWORD 0x00000000
                Certificate =
                DisplayName = SQL Server Network Configuration
                AdminConnection
                    DisplayName = Dedicated Administrative Connection
                    Tcp
                        TcpDynamicPorts = 1434
                        DisplayName = TCP/IP
                Np
                    Enabled = REG_DWORD 0x00000001
                    PipeName = \\.\pipe\sql\query
                    DisplayName = Named Pipes
                Sm
                    Enabled = REG_DWORD 0x00000001
                    DisplayName = Shared Memory
                Tcp
                    Enabled = REG_DWORD 0x00000000
                    ListenOnAllIPs = REG_DWORD 0x00000001
                    NoDelay = REG_DWORD 0x00000000
                    KeepAlive = REG_DWORD 0x00007530
                    DisplayName = TCP/IP
                    IP1
                        Enabled = REG_DWORD 0x00000001
                        Active = REG_DWORD 0x00000001
                        TcpPort = 1433[0x1]
                        TcpDynamicPorts =
                        DisplayName = Specific IP Address
                        IpAddress = 192.168.91.207
                    IP2
                        Enabled = REG_DWORD 0x00000001
                        Active = REG_DWORD 0x00000001
                        TcpPort = 1433
                        TcpDynamicPorts =
                        DisplayName = Specific IP Address
                        IpAddress = 192.59.13.7
                    IP3
                        Enabled = REG_DWORD 0x00000001
                        Active = REG_DWORD 0x00000001
                        TcpPort = 1433
                        TcpDynamicPorts =
                        DisplayName = Specific IP Address
                        IpAddress = 127.0.0.1
                    IPAll
                        TcpPort = 1433[0x1]
                        TcpDynamicPorts =
                        DisplayName = Any IP Address
                Via
                    Enabled = REG_DWORD 0x00000001
```

```
                    DefaultServerPort =
0:1401[0x2],2:1402[0x1],4:1403[0x4],6:1404[0x8],8:1405[0x10],10:1406[0x20]
,12:1407[0x40],14:1408[0x80],0:1409[0x100]

                    ListenInfo =
0:1401[0x2],2:1402[0x1],4:1403[0x4],6:1404[0x8],8:1405[0x10],10:1406[0x20]
,12:1407[0x40],14:1408[0x80],0:1409[0x100]
                    DisplayName = VIA
                    VendorDLL = Uvipl.dll
        Providers
            AllowInProcess = REG_DWORD 0x00000001
            ADSDSOObject
                AllowInProcess = REG_DWORD 0x00000001
            DB2OLEDB
                AllowInProcess = REG_DWORD 0x00000001
            Microsoft.Jet.OLEDB.4.0
                AllowInProcess = REG_DWORD 0x00000001
            MSDAORA
                AllowInProcess = REG_DWORD 0x00000001
            MSDASQL
                AllowInProcess = REG_DWORD 0x00000001
            MSIDXS
                AllowInProcess = REG_DWORD 0x00000001
            MSQLImpProv
                AllowInProcess = REG_DWORD 0x00000001
            MSSEARCHSQL
                AllowInProcess = REG_DWORD 0x00000001
            SQLNCLI
                AllowInProcess = REG_DWORD 0x00000001
                DisallowAdhocAccess = REG_DWORD 0x00000000
        Replication
            IsInstalled = REG_DWORD 0x00000001
            DistributionDB =
            WorkingDirectory = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\REPLDATA
        Security

            Entropy = REG_BINARY 0x00000100 0x37136495 0xc5dff4c6
0x8f410bd3 0x0a331db3 0x12d1983c 0x9f67a721 0x48ebaa44 0x3979e00f
0x13754c24 0x9fff408b 0xed6eda1f 0x920e9722 0x71598e88 0x04966825
0x777a8436 0xa9757108 0x0e7cdb33 \

                        0x86889cd3 0x99f1f46e 0xbd7f9946 0x5806210f
0x8feb678d 0xb6b74a53 0x4aa9ea5e 0x0230d14a 0xfbadc7e9 0x11b180ca
0xd6f0daca 0xb36a528f 0xb5fe19d3 0xc39775d7 0x593e34ab 0x6b0e239c
0xb6c9e732 0x88e99dc2 0x65b52722 \

                        0x00caaa76 0xc13364a7 0xe26e7dbe 0x287cfa3e
0x455018f6 0x34b2051f 0x947a3d02 0x6cd5b792 0xe55b3264 0x6b50c1d2
0x973b03fa 0xcb75fd77 0xb5ecc927 0x2842add4 0x513a369c 0x1c14b5bd
0x0d47f9d4 0x2c59a6a7 0xd9a476fa \
                        0x7dcab581 0x41410226 0x8b294ed6 0x2a88a204
0xeb3136f9 0xab6d103f 0x71db1865 0xff3841f0 0xc702189a
        Setup
            AGTGroup = S-1-5-21-3969286527-733576534-1460975245-1010
            SQLGroup = S-1-5-21-3969286527-733576534-1460975245-1011
            FTSGroup = S-1-5-21-3969286527-733576534-1460975245-1012
            Version = 9.00.1314.06
            Language = REG_DWORD 0x00000409
            Resume = REG_DWORD 0x00000000
            ProductCode = {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}
            SqlProgramDir = C:\Program Files\Microsoft SQL Server\

            checksum = REG_BINARY 0x000000b9 0x66333139 0x65306666
0x62323862 0x62373430 0x31353031 0x31323836 0x64633030 0x31653636
0x37313131 0x33316331 0x66303663 0x65623330 0x36313633 0x32393030
0x37383262 0x62623866 0x35373965 \

                        0x30643764 0x37633832 0x61656663 0x65616232
0x61623839 0x34313364 0x31643632 0x34313730 0x36633666 0x64663632
0x63626666 0x35383434 0x39373063 0x32356262 0x64333936 0x35663035
0x39353230 0x63393436 0x38643861 \

                        0x32356263 0x33653263 0x63633463 0x34646132
0x31663337 0x33396564 0x37356130 0x62383037 0x38393366 0x63623331
0x00000000
            Edition = Enterprise Edition (64-bit)
            SqlCluster = REG_DWORD 0x00000000
            FeatureList = SQL_Engine=3 SQL_Data_Files=3 SQL_Replication=3
SQL_FullText=3 SQL_SharedTools=3 SQL_BC_DEP=3
            PatchLevel = 9.00.1314.06
            Collation = Latin1_General_BIN
            FirstStart = REG_DWORD 0x00000000
            SQLDataRoot = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL
            SQLPath = C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL
            SQLBinRoot = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\Binn
        SQLServerAgent
            JobHistoryMaxRowsPerJob = REG_DWORD 0x00000064
            SysAdminOnly = REG_DWORD 0x00000001
            DownloadedMaxRows = REG_DWORD 0x00000064
            ErrorLogFile = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\LOG\SQLAGENT.OUT
            ErrorLoggingLevel = REG_DWORD 0x00000003
            JobHistoryMaxRows = REG_DWORD 0x000003e8
            MSXServerName =
            NonAlertableErrors = 1204,4002
            RestartServer = REG_DWORD 0x00000001
            ServerHost =
            WorkingDirectory = C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\JOBS\
        SQLServerSCP
    Services
        Analysis Server
            Name = MSSQLServerOLAPService
            LName = MSOLAP$
            Type = REG_DWORD 0x00000005
        Full Text
            LName = msftesql$
            Name = msftesql
            Type = REG_DWORD 0x00000003
        Notification Services
            LName = NS$
            Name = NsService
```

```
            Type = REG_DWORD 0x00000008
        Report Server
            Name = ReportServer
            LName = ReportServer$
            Type = REG_DWORD 0x00000006
            GroupPrefix = SQLServer2005ReportServerUser$TPCC-ZORRO$
        ReportServer
            LName = ReportServer$
            Name = ReportServer
            Type = REG_DWORD 0x00000006
        SQL Agent
            Name = SQLSERVERAGENT
            LName = SQLAgent$
            Type = REG_DWORD 0x00000002
        SQL Browser
            LName =
            Name = SQLBrowser
            Type = REG_DWORD 0x00000007
        SQL Server
            Name = MSSQLServer
            LName = MSSQL$
            Type = REG_DWORD 0x00000001
        SSIS Server
            GroupPrefix = SQLServer2005DTSUser$TPCC-ZORRO
            LName =
            Name = MsDtsServer
            Type = REG_DWORD 0x00000004
    SQLXML4
        CurrentVersion
            Version = 9.00.1314.06
        MSIRefCount

            Uninstall = {11111111-1111-1111-1111-111111111111},{73D8B59D-
0BFF-4B5B-A031-FAB3AC629E56}
```

Software_Microsoft_MSSQLServer

```
\registry\machine\SOFTWARE\Microsoft\MSSQLServer
    Client
        SNI9.0
            ProtocolsSupported = REG_MULTI_SZ "sm"  \
                                              "tcp"  \
                                              "np"  \
                                              "via"
            ProtocolOrder = REG_MULTI_SZ "sm"  \
                                         "np"
            GeneralFlags
                NumberOfFlags = REG_DWORD 0x00000002
                Flag1
                    Label = Force protocol encryption
                    Value = REG_DWORD 0x00000000
                Flag2
                    Label = Trust Server Certificate
                    Value = REG_DWORD 0x00000000
            LastConnect
            np
                DLLname = SQLNCLI
                NumberOfFlags = REG_DWORD 0x00000000
                NumberOfProperties = REG_DWORD 0x00000001
                ProtocolName = Named Pipes
                Property1
                    Name = Default Pipe
                    Value = sql\query
            sm
                DLLname = SQLNCLI
                NumberOfFlags = REG_DWORD 0x00000000
                NumberOfProperties = REG_DWORD 0x00000000
                ProtocolName = Shared Memory
            tcp
                DLLname = SQLNCLI
                NumberOfFlags = REG_DWORD 0x00000000
                NumberOfProperties = REG_DWORD 0x00000003
                ProtocolName = TCP/IP
                Property1
                    Name = Default Port
                    Value = REG_DWORD 0x00000599
                Property2
                    Name = KEEPALIVE (in milliseconds)
                    Value = REG_DWORD 0x00007530
                Property3
                    Name = KEEPALIVEINTERVAL (in milliseconds)
                    Value = REG_DWORD 0x000003e8
            VIA
                DLLname = SQLNCLI
                NumberOfFlags = REG_DWORD 0x00000000
                NumberOfProperties = REG_DWORD 0x00000002
                ProtocolName = VIA
                Property1
                    Name = Default Server Port
                    Value = 0:1433
                Property2
                    Name = Default Client NIC
                    Value = 0
    MSSQLServer
        CurrentVersion
            CurrentVersion = 9.00.1314.06
        SuperSocketNetLib
            ProtocolList = REG_MULTI_SZ "np"
            Np
                PipeName = \\.\pipe\sql\query
            Tcp
                TcpPort = 1433
            VIA
                Vendor = Unisys
    Setup

        SQLPath = C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL
```

Software_Unisys_IntelligentFibre

```
\registry\machine\SOFTWARE\UNISYS\Intelligent Fibre Utility
    AccessTuning = REG_DWORD 0x00000001
```

CurrentControlSet\ Control\Session Manager\I/O System

```
\registry\machine\SYSTEM\CurrentControlSet\Control\Session Manager\I/O
System

    CountOperations = REG_DWORD 0x00000000
```

CurrentControlSet\Services\Ifba

```
\registry\machine\SYSTEM\CurrentControlSet\Services\ifba
    Type = REG_DWORD 0x00000001
    Start = REG_DWORD 0x00000003
    ErrorControl = REG_DWORD 0x00000001
    Tag = REG_DWORD 0x00000004
    ImagePath = REG_EXPAND_SZ system32\DRIVERS\ifba.sys
    DisplayName = Unisys Intelligent Fibre Channel Adapter SCSI Processor
    Group = SCSI Class
    Security [17 1]

        Security = REG_BINARY 0x000000d0 0x80140001 0x000000b8 0x000000c4
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
    Enum
        0 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&1856da93&0&B004560B00080010
        Count = REG_DWORD 0x00000022
        NextInstance = REG_DWORD 0x00000022
        1 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&1856da93&0&B104560B00080010
        2 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&2c288843&0&FC04560B00080010
        3 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&2c288843&0&FD04560B00080010
        4 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&dce4a85&0&EC04560B00080010
        5 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&dce4a85&0&ED04560B00080010
        6 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&32f92ba6&0&E804560B00080010
        7 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&32f92ba6&0&E904560B00080010
        8 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&17387ea3&0&7433560B00080010
        9 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&17387ea3&0&7533560B00080010
        10 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&2b66f4f0&0&2409560B00080010
        11 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&2b66f4f0&0&2509560B00080010
        12 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&182cae01&0&B804560B00080010
        13 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&182cae01&0&B904560B00080010
        14 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&a03ce42&0&0C0A560B00080010
        15 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&a03ce42&0&0D0A560B00080010
        16 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&366b9c68&0&A004560B00080010
        17 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&366b9c68&0&A104560B00080010
        18 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&f8ff3be&0&8C25560B00080010
        19 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&f8ff3be&0&8D25560B00080010
        20 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&2a035b15&0&8825560B00080010
        21 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&2a035b15&0&8925560B00080010
        22 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&1431606b&0&C804560B00080010
        23 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&1431606b&0&C904560B00080010
        24 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&24a5a6ae&0&5406560B00080010
        25 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&24a5a6ae&0&5506560B00080010
        26 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&8973665&0&D804560B00080010
        27 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&8973665&0&D904560B00080010
        28 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&2d6c8724&0&2009560B00080010
        29 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&2d6c8724&0&2109560B00080010
        30 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&1a94a241&0&9C04560B00080010
        31 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&1a94a241&0&9D04560B00080010
        32 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&242eb092&0&B404560B00080010

        33 = SCSI\ProcessorUNISYS__FC76222-
P64_____v2__\6&242eb092&0&B504560B00080010
```

CurrentControlSet\Services\Ifdisk

```
\registry\machine\SYSTEM\CurrentControlSet\Services\ifdisk
    Type = REG_DWORD 0x00000001
    Start = REG_DWORD 0x00000001
    ErrorControl = REG_DWORD 0x00000001
    ImagePath = REG_EXPAND_SZ system32\DRIVERS\ifdisk.sys
    DisplayName = Unisys Intelligent Fibre Channel Fabric Disk Driver
    Security [17 1]
        Security = REG_BINARY 0x000000d0 0x80140001 0x000000b8 0x000000c4
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
    Enum
        0 =
SCSI\Disk&Ven_DGC_____RAID_10_________0206\1&2d12bed1&0&B30C21106001065000
000000000001000
        Count = REG_DWORD 0x000000ba
        NextInstance = REG_DWORD 0x000000ba
        1 =
SCSI\Disk&Ven_DGC_____RAID_10_________0206\1&2d12bed1&0&B30C21106001065000
000000000000000
        2 =
SCSI\Disk&Ven_DGC_____RAID_10_________0206\1&2d12bed1&0&B81121106001065000
000000000001000
        3 =
SCSI\Disk&Ven_DGC_____RAID_10_________0206\1&2d12bed1&0&B81121106001065000
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        4 =
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SCSI\Disk&Ven_DGC_____RAID_10_________0219\1&2d12bed1&0&E60821106001065000
000000000000000
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
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        28 =
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000000000002000
```

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        29 =
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```

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        103 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DD3F00861000001000
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        104 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DD3F00861000001000
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```

```
        105 =
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DD3F00861000001000
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        140 =
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        141 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
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        142 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
000000000008000
```

```
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
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        147 =
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000000000003000
        148 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
000000000002000
        149 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
000000000001000
        150 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
00000000000C000
        151 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
00000000000B000
        152 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
00000000000A000
        153 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
000000000009000
        154 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
000000000008000
        155 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
000000000007000
        156 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
000000000006000
        157 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
000000000005000
        158 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
000000000004000
        159 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
000000000003000
        160 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
000000000002000
        161 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
000000000001000
        162 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
00000000000C000
        163 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
00000000000B000
        164 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
00000000000A000
        165 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000009000
        166 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000008000
        167 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000007000
        168 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000006000
        169 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000005000
        170 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000004000
        171 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000003000
        172 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000002000
        173 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000001000
        174 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
00000000000C000
        175 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
00000000000B000
        176 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
00000000000A000
        177 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000009000
        178 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000008000
        179 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000007000
        180 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000006000
```

```
        181 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000005000
        182 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000004000
        183 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000003000
        184 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000002000
        185 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000001000
```

CurrentControlSet\Services\IfIp

```
\registry\machine\SYSTEM\CurrentControlSet\Services\IfIp
    Type = REG_DWORD 0x00000001
    Start = REG_DWORD 0x00000000
    ErrorControl = REG_DWORD 0x00000001
    Tag = REG_DWORD 0x00000007
    ImagePath = REG_EXPAND_SZ system32\DRIVERS\IfIp.sys
    DisplayName = Unisys Intelligent Fibre Channel Fabric Bus Enumerator
    Group = Boot Bus Extender
    Security [17 1]


        Security = REG_BINARY 0x000000d0 0x80140001 0x000000b8 0x000000c4
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
    Enum
        0 = Root\SYSTEM\0003
        Count = REG_DWORD 0x00000001


        NextInstance = REG_DWORD 0x00000001
```

CurrentControlSet\Services\ifxp

```
\registry\machine\SYSTEM\CurrentControlSet\Services\ifxp
    Type = REG_DWORD 0x00000001
    Start = REG_DWORD 0x00000000
    ErrorControl = REG_DWORD 0x00000001
    Tag = REG_DWORD 0x00000021
    ImagePath = REG_EXPAND_SZ system32\DRIVERS\ifxp.sys
    DisplayName = Unisys Intelligent Fibre Channel Fabric Bus Adapter
    Group = SCSI Miniport
    Parameters
        PnpInterface
            5 = REG_DWORD 0x00000001
    Security [17 1]
        Security = REG_BINARY 0x000000d0 0x80140001 0x000000b8 0x000000c4
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
    Enum
        0 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&35728da7&0&0008E8
        Count = REG_DWORD 0x00000011
        NextInstance = REG_DWORD 0x00000011
        1 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&17f7f795&0&0008F8
        2 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&63cb3c2&0&0008E8
        3 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&260ac241&0&0008F8
        4 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&2d37a410&0&0008F8
        5 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&4a36ef4&0&0008F8
        6 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&274dcb0&0&0008E8
        7 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&2933b8f6&0&0008F8
        8 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&70a2f0c&0&0008E8
        9 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&33de6a4a&0&0008F8
        10 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&24868c15&0&0008E8
        11 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&32f12ffb&0&0008F8
        12 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&1fcad373&0&0008F8
        13 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&8c6c24&0&0008E8
```

```
        14 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&20c01ad6&0&0008F8
        15 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&b668308&0&0008F8
        16 =
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&2a5917f9&0&0008E8
```

CurrentControlSet\Services\lpxkdrvr

```
\registry\machine\SYSTEM\CurrentControlSet\Services\lpxkdrvr
    Type = REG_DWORD 0x00000001
    Start = REG_DWORD 0x00000003
    ErrorControl = REG_DWORD 0x00000001
    ImagePath = REG_EXPAND_SZ system32\DRIVERS\lpxkdrvr.sys
    DisplayName = lpxkdrvr
    Description = LPXKSLI2 driver.
    Affinity
        0 = 0xffffffffffffffff
        1 = 0xffffffffffffffff
        2 = 0xffffffffffffffff
        3 = 0xffffffffffffffff
        4 = 0xffffffffffffffff
        5 = 0xffffffffffffffff
        6 = 0xffffffffffffffff
        7 = 0xffffffffffffffff
        8 = 0xffffffffffffffff
        9 = 0xffffffffffffffff
        10 = 0xffffffffffffffff
        11 = 0xffffffffffffffff
        12 = 0xffffffffffffffff
        13 = 0xffffffffffffffff
        14 = 0xffffffffffffffff
        15 = 0xffffffffffffffff
    Coalesce
        0 = REG_DWORD 0xc5140000
        1 = REG_DWORD 0xc5140000
        2 = REG_DWORD 0xc5140000
        3 = REG_DWORD 0xc5140000
        4 = REG_DWORD 0xc5140000
        5 = REG_DWORD 0xc5140000
        6 = REG_DWORD 0xc5140000
        7 = REG_DWORD 0xc5140000
        8 = REG_DWORD 0xc5140000
        9 = REG_DWORD 0xc5140000
        10 = REG_DWORD 0xc5140000
        11 = REG_DWORD 0xc5140000
        12 = REG_DWORD 0xc5140000
        13 = REG_DWORD 0xc5140000
        14 = REG_DWORD 0xc5140000
        15 = REG_DWORD 0xc5140000
    Security [17 1]
        Security = REG_BINARY 0x000000d0 0x80140001 0x000000b8 0x000000c4
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
        8 = REG_DWORD 0x00000000
        9 = REG_DWORD 0x00000000
        10 = REG_DWORD 0x00000000
        11 = REG_DWORD 0x00000000
        12 = REG_DWORD 0x00000000
        13 = REG_DWORD 0x00000000
        14 = REG_DWORD 0x00000000
        15 = REG_DWORD 0x00000000
    Enum
        0 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&28be6aa6&0&08F8
        Count = REG_DWORD 0x00000010
        NextInstance = REG_DWORD 0x00000010
        1 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&28be6aa6&0&09F8
        2 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&363dffcf&0&08F8
        3 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&363dffcf&0&09F8
        4 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&14ebe0a&0&08F8
        5 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&14ebe0a&0&09F8
        6 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&30c69f89&0&08F8
        7 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&30c69f89&0&09F8
        8 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&64e9008&0&08F8
        9 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&64e9008&0&09F8
        10 =
PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&246a1f8e&0&08E8
        11 =
PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&246a1f8e&0&09E8
        12 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&b8da2be&0&08F8
        13 = PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&b8da2be&0&09F8
        14 =
PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&22b731a3&0&08E8
        15 =
PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&22b731a3&0&09E8
```

CurrentControlSet\Services\MSSQLSERVER

```
\registry\machine\SYSTEM\CurrentControlSet\Services\MSSQLSERVER
    Type = REG_DWORD 0x00000010
    Start = REG_DWORD 0x00000003
    ErrorControl = REG_DWORD 0x00000001
```

```
    ImagePath = REG_EXPAND_SZ "C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\Binn\sqlservr.exe" -sMSSQLSERVER
    DisplayName = SQL Server (MSSQLSERVER)
    ObjectName = LocalSystem
    Description = Provides storage, processing and controlled access of
data and rapid transaction processing.
    Linkage
        Export = REG_MULTI_SZ "MSSQLSERVER"
    Performance
        Library = sqlctr90.dll
        Open = OpenSQLPerformanceData1
        Collect = CollectSQLPerformanceData1
        Close = CloseSQLPerformanceData1
        PerfIniFile = perf-MSSQLSERVERsqlctr.ini
        Last Counter = REG_DWORD 0x0000179c
        Last Help = REG_DWORD 0x0000179d
        First Counter = REG_DWORD 0x00001528
        First Help = REG_DWORD 0x00001529
        Library Validation Code = REG_BINARY 0x00000010 0x3ab15400
0x01c5b0bb 0x000134d8 0x00000000
        WbemAdapFileSignature = REG_BINARY 0x00000010 0xd09f51b3
0x473a7411 0x29c339e7 0x6866f200
        WbemAdapFileTime = REG_BINARY 0x00000008 0x3ab15400 0x01c5b0bb
        WbemAdapFileSize = REG_DWORD 0x000134d8
        WbemAdapStatus = REG_DWORD 0x00000000
    Security [17 1]
        Security = REG_BINARY 0x000000d0 0x80140001 0x000000b8 0x000000c4
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
    Enum
        0 = Root\LEGACY_MSSQLSERVER\0000
        Count = REG_DWORD 0x00000001
        NextInstance = REG_DWORD 0x00000001
```

CurrentControlSet\Services\PartMgr

```
\registry\machine\SYSTEM\CurrentControlSet\Services\PartMgr
    DisplayName = Partition Manager
    ErrorControl = REG_DWORD 0x00000001
    Group = System Bus Extender
    Start = REG_DWORD 0x00000000
    Tag = REG_DWORD 0x00000005
    Type = REG_DWORD 0x00000001
    Enum
        0 = Root\LEGACY_PARTMGR\0000
        Count = REG_DWORD 0x000000bc
        NextInstance = REG_DWORD 0x000000bc
        1 = SCSI\Disk&Ven_ADAPTEC&Prod_RAID_1&Rev_1.0\5&344567f4&0&700
        2 =
SCSI\Disk&Ven_DGC_____RAID_10_________0206\1&2d12bed1&0&B30C21106001065000
000000000001000
        3 =
SCSI\Disk&Ven_DGC_____RAID_10_________0206\1&2d12bed1&0&B30C21106001065000
000000000000000
        4 =
SCSI\Disk&Ven_DGC_____RAID_10_________0206\1&2d12bed1&0&B81121106001065000
000000000001000
        5 =
SCSI\Disk&Ven_DGC_____RAID_10_________0206\1&2d12bed1&0&B81121106001065000
000000000000000
        6 =
SCSI\Disk&Ven_DGC_____RAID_10_________0219\1&2d12bed1&0&E60821106001065000
000000000001000
        7 =
SCSI\Disk&Ven_DGC_____RAID_10_________0219\1&2d12bed1&0&E60821106001065000
000000000000000
        8 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
00000000000C000
        9 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
00000000000B000
        10 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
00000000000A000
        11 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000009000
        12 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000008000
        13 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000007000
        14 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000006000
        15 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000005000
        16 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000004000
        17 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000003000
        18 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000002000
        19 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&354000861000001000
000000000001000
        20 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
00000000000C000
```

```
        21 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
00000000000B000
        22 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
00000000000A000
        23 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
000000000009000
        24 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
000000000008000
        25 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
000000000007000
        26 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
000000000006000
        27 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
000000000005000
        28 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
000000000004000
        29 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
000000000003000
        30 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
000000000002000
        31 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&094000861000001000
000000000001000
        32 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000008000
        33 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
00000000000C000
        34 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
00000000000B000
        35 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
00000000000A000
        36 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000009000
        37 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000007000
        38 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000006000
        39 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000005000
        40 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000004000
        41 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000003000
        42 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000002000
        43 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&9B3F00861000001000
000000000001000
        44 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
00000000000C000
        45 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
00000000000B000
        46 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F00861000001000
00000000000A000
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000
00000000000B000
        58 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000
00000000000A000
```

```
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000000000009000
        60 =
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000000000008000
        61 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F00861000001000
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00000000000A000
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00000000000A000
        83 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000
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000000000002000
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B00861000001000
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
00000000000C000
        93 =
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        94 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
00000000000A000
        95 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
000000000009000
        96 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
000000000008000
```

```
        97 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
000000000007000
        98 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
000000000006000
        99 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
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        101 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
000000000003000
        102 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
000000000002000
        103 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&654000861000001000
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        104 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DD3F00861000001000
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        105 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DD3F00861000001000
00000000000B000
        106 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DD3F00861000001000
00000000000A000
        107 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DD3F00861000001000
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        108 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DD3F00861000001000
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        109 =
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        115 =
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        117 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&634000861000001000
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        118 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&634000861000001000
00000000000A000
        119 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&634000861000001000
000000000009000
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&634000861000001000
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00000000000B000
        130 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&6D4000861000001000
00000000000A000
        131 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&6D4000861000001000
000000000009000
        132 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&6D4000861000001000
000000000008000
        133 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&6D4000861000001000
000000000007000
        134 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&6D4000861000001000
000000000006000
```

```
        135 =
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000000000005000
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&6D4000861000001000
000000000004000
        137 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&6D4000861000001000
000000000003000
        138 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&6D4000861000001000
000000000002000
        139 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&6D4000861000001000
000000000001000
        140 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
000000000000C000
        141 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
000000000000B000
        142 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
000000000000A000
        143 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
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        144 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
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        146 =
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000000000006000
        147 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
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        148 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
000000000004000
        149 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
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        150 =
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&314000861000001000
000000000001000
        152 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
00000000000C000
        153 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
00000000000B000
        154 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A53F00861000001000
00000000000A000
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        167 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
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000000000005000
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SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
000000000004000
```

```
        173 =
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000000000003000
        174 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
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        175 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&1D4000861000001000
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00000000000C000
        177 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
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000000000004000
        185 =
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000000000003000
        186 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000002000
        187 =
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&773F00861000001000
000000000001000
```

Windows 2003 Server Client Configuration Information

(Common to 8 clients except for System Name, IP Address & MAC Address)

Hwconfig_Client1.ver

```
System Information report written at: 04/19/06 12:29:58
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 Daylight 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

[IRQs]

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 Unisys VI on Emulex LightPulse Adapter       OK
IRQ 102 Unisys VI on Emulex LightPulse Adapter       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
0x80000000-0xFEBFFFFF  PCI bus OK
0xDFC00000-0xDFEFFFFF  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
0xDFD00000-0xDFEFFFFF  PCI standard PCI-to-PCI bridge        OK
0xDFDF0000-0xDFDFFFFF  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

0xDF700000-0xDFBFFFFF  Intel(R) E7520 PCI Express Root Port B1 - 3598
        OK
0xDFA00000-0xDFBFFFFF  Intel(R) 6700PXH PCI Express-to-PCI Bridge A - 0329
        OK
0xDFAE0000-0xDFAFFFFF  Intel(R) PRO/1000 MT Network Connection      OK

0xDF800000-0xDF9FFFFF  Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A
        OK
0xDF8E0000-0xDF8FFFFF  Intel(R) PRO/1000 MT Network Connection #2   OK

0xDF400000-0xDF6FFFFF  Intel(R) E7520 PCI Express Root Port C0 - 3599
        OK
0xDF500000-0xDF6FFFFF  Intel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A
        OK
0xDF5FF000-0xDF5FFFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xDF5FEC00-0xDF5FECFF  Unisys VI on Emulex LightPulse Adapter       OK

0xDF5FD000-0xDF5FDFFF  Unisys VI on Emulex LightPulse Adapter       OK

0xDF5FE800-0xDF5FE8FF  Unisys VI on Emulex LightPulse Adapter       OK

0xDFF00000-0xDFF003FF  Standard Enhanced PCI to USB Host Controller OK

0xD0000000-0xD7FFFFFF  RADEON 7000 RADEON VE Family (Microsoft
Corporation)   OK
0xDF2F0000-0xDF2FFFFF  RADEON 7000 RADEON VE Family (Microsoft
Corporation)   OK
0xFEBFFC00-0xFEBFFFFF  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\tssoft32.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\msadp32.acm       Microsoft Corporation         OK
        C:\WINDOWS\system32\MSADP32.ACM       5.2.3790.0 (srv03_rtm.030324-
2048)   14.50 KB (14,848 bytes)       3/25/2003 11:00 AM
c:\windows\system32\msg711.acm        Microsoft Corporation         OK
        C:\WINDOWS\system32\MSG711.ACM        5.2.3790.0 (srv03_rtm.030324-
2048)   10.00 KB (10,240 bytes)       3/25/2003 11:00 AM
c:\windows\system32\imaadp32.acm      Microsoft Corporation         OK
        C:\WINDOWS\system32\IMAADP32.ACM      5.2.3790.0 (srv03_rtm.030324-
2048)   15.50 KB (15,872 bytes)       3/25/2003 11:00 AM
c:\windows\system32\msg723.acm        Microsoft Corporation         OK
        C:\WINDOWS\system32\MSG723.ACM        5.2.3790.1830  120.00 KB
(122,880 bytes)        7/22/2005 1:04 PM
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\msgsm32.acm       Microsoft Corporation         OK
        C:\WINDOWS\system32\MSGSM32.ACM       5.2.3790.0 (srv03_rtm.030324-
2048)   20.50 KB (20,992 bytes)       3/25/2003 11:00 AM
```

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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\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
c:\windows\system32\tsbyuv.dll       Microsoft Corporation         OK
       C:\WINDOWS\system32\TSBYUV.DLL       5.2.3790.0 (srv03_rtm.030324-
2048)   8.00 KB (8,192 bytes)  3/24/2003 5:50 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-
2048)   26.50 KB (27,136 bytes)       3/25/2003 11:00 AM
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\msrle32.dll      Microsoft Corporation         OK
       C:\WINDOWS\system32\MSRLE32.DLL      5.2.3790.0 (srv03_rtm.030324-
2048)   10.50 KB (10,752 bytes)       3/25/2003 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)   46.50 KB (47,616 bytes)       7/22/2005 1:04
PM

[CD-ROM]

Item   Value
Drive  D:
Description    CD-ROM Drive
Media Loaded   No
Media Type     CD-ROM
Name   TEAC CD-224E
Manufacturer   (Standard CD-ROM drives)
Status  OK
Transfer Rate  Not Available
SCSI Target ID 0
PNP Device ID  IDE\CDROMTEAC_CD-
224E_____________________________K.9A____\5&122E1C04&0&0.0.0
Driver  c:\windows\system32\drivers\cdrom.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 51.00 KB (52,224 bytes), 3/25/2003 11:00 AM)


[Sound Device]

Item   Value

[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 0xD0000000-0xD7FFFFFF
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 0xA0000-0xBFFFF
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       0x00000060-0x00000060
I/O Port       0x00000064-0x00000064
IRQ Channel    IRQ 1
Driver  c:\windows\system32\drivers\i8042prt.sys (5.2.3790.1830
(srv03_sp1_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_sp1_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      4/19/2006 12:28 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      4/19/2006 12:28 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_sp1_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      4/19/2006 12:28 PM
Index   3
Service Name    PptpMiniport
IP Address      Not Available
IP Subnet       Not Available
Default IP Gateway     Not Available
DHCP Enabled    No
DHCP Server     Not Available
DHCP Lease Expires     Not Available
DHCP Lease Obtained    Not Available
MAC Address     50:50:54:50:30:30
Driver  c:\windows\system32\drivers\raspptp.sys (5.2.3790.1830
(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_PPPOEMINIPORT\0000
Last Reset      4/19/2006 12:28 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_PTIMINIPORT\0000
Last Reset      4/19/2006 12:28 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     4/19/2006 12:28 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     4/19/2006 12:28 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     4/19/2006 12:28 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
```

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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
```

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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     26.35 GB (28,292,403,200 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  PCIIDE\IDECHANNEL\4&1E0969C8&0&0
I/O Port       0x000001F0-0x000001F7
I/O Port       0x000003F6-0x000003F6
IRQ Channel    IRQ 14
Driver  c:\windows\system32\drivers\atapi.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 93.50 KB (95,744 bytes), 3/25/2003 11:00 AM)


Name   Secondary IDE Channel
Manufacturer   (Standard IDE ATA/ATAPI controllers)
Status  OK
PNP Device ID  PCIIDE\IDECHANNEL\4&1E0969C8&0&1
I/O Port       0x00000170-0x00000177
I/O Port       0x00000376-0x00000376
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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
        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      Normal  No      Yes
acpiec  ACPIEC  c:\windows\system32\drivers\acpiec.sys       Kernel Driver
        No      Disabled       Stopped OK      Normal  No      No
adpu160m       adpu160m       Not Available  Kernel Driver  No
        Disabled       Stopped OK      Normal  No      No
adpu320 adpu320 Not Available  Kernel Driver  No      Disabled
        Stopped OK      Normal  No      No
afcnt   afcnt   Not Available  Kernel Driver  No      Disabled
        Stopped OK      Normal  No      No
afd     AFD Networking Support Environment
        c:\windows\system32\drivers\afd.sys   Kernel Driver  Yes     System
        Running OK      Normal  No      Yes
aha154x Aha154x Not Available  Kernel Driver  No      Disabled
        Stopped OK      Normal  No      No
aic78u2 aic78u2 Not Available  Kernel Driver  No      Disabled
        Stopped OK      Normal  No      No
aic78xx aic78xx Not Available  Kernel Driver  No      Disabled
        Stopped OK      Normal  No      No
aliide  AliIde  Not Available  Kernel Driver  No      Disabled
        Stopped OK      Normal  No      No
asyncmac       RAS Asynchronous Media Driver
        c:\windows\system32\drivers\asyncmac.sys     Kernel Driver  No
        Manual  Stopped OK      Normal  No      No
atapi   Standard IDE/ESDI Hard Disk Controller
        c:\windows\system32\drivers\atapi.sys Kernel Driver  Yes     Boot
        Running OK      Normal  No      Yes
atdisk  Atdisk  Not Available  Kernel Driver  No      Disabled
        Stopped OK      Ignore  No      No
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
cpqarry2       cpqarry2       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
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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
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

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

lpxkdrvr        lpxkdrvr        c:\windows\system32\drivers\lpxkdrvr.sys
        Kernel Driver  Yes     Manual  Running OK      Normal  No      Yes

mnmdd   mnmdd   c:\windows\system32\drivers\mnmdd.sys Kernel Driver  Yes
        System  Running OK      Ignore  No      Yes
modem   Modem   c:\windows\system32\drivers\modem.sys Kernel Driver  No
        Manual  Stopped OK      Ignore  No      No
mouclass        Mouse Class Driver
        c:\windows\system32\drivers\mouclass.sys     Kernel Driver  Yes
        System  Running OK      Normal  No      Yes
mountmgr        Mount Point Manager
        c:\windows\system32\drivers\mountmgr.sys     Kernel Driver  Yes
        Boot    Running OK      Normal  No      Yes
mraid35x        mraid35x        Not Available  Kernel Driver  No
        Disabled        Stopped OK      Normal  No      No
mrxdav  WebDav Client Redirector
        c:\windows\system32\drivers\mrxdav.sys       File System Driver
        No      Manual  Stopped OK      Normal  No      No
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
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ndisuio NDIS Usermode I/O Protocol
        c:\windows\system32\drivers\ndisuio.sys      Kernel Driver  No
        Manual  Stopped OK      Normal  No      No
ndiswan Remote Access NDIS WAN Driver
        c:\windows\system32\drivers\ndiswan.sys      Kernel Driver  Yes
        Manual  Running OK      Normal  No      Yes
ndproxy NDIS Proxy     c:\windows\system32\drivers\ndproxy.sys      Kernel
Driver  Yes     Manual  Running OK      Normal  No      Yes
netbios NetBIOS Interface      c:\windows\system32\drivers\netbios.sys
        File System Driver     Yes     System  Running OK      Normal  No
        Yes
netbt   NetBios over Tcpip     c:\windows\system32\drivers\netbt.sys Kernel
Driver  Yes     System  Running OK      Normal  No      Yes
nfrd960 nfrd960 Not Available  Kernel Driver  No      Disabled
        Stopped OK      Normal  No      No
npfs    Npfs    c:\windows\system32\drivers\npfs.sys  File System Driver
        Yes     System  Running OK      Normal  No      Yes
ntfs    Ntfs    c:\windows\system32\drivers\ntfs.sys  File System Driver
        Yes     Disabled        Running OK      Normal  No      Yes
null    Null    c:\windows\system32\drivers\null.sys  Kernel Driver  Yes
        System  Running OK      Normal  No      Yes
parport Parport c:\windows\system32\drivers\parport.sys      Kernel Driver
        No      Manual  Stopped OK      Ignore  No      No
partmgr Partition Manager      c:\windows\system32\drivers\partmgr.sys
        Kernel Driver  Yes     Boot    Running OK      Normal  No      Yes

pci     PCI Bus Driver c:\windows\system32\drivers\pci.sys   Kernel Driver
        Yes     Boot    Running OK      Critical        No      Yes
pciide  PCIIde  c:\windows\system32\drivers\pciide.sys       Kernel Driver
        Yes     Boot    Running OK      Normal  No      Yes
pcmcia  Pcmcia  c:\windows\system32\drivers\pcmcia.sys       Kernel Driver
        No      Disabled        Stopped OK      Normal  No      No
pdcomp  PDCOMP  Not Available  Kernel Driver  No      Manual  Stopped OK
        Ignore  No      No
pdframe PDFRAME Not Available  Kernel Driver  No      Manual  Stopped OK
        Ignore  No      No
pdreli  PDRELI  Not Available  Kernel Driver  No      Manual  Stopped OK
        Ignore  No      No
pdrframe        PDRFRAME       Not Available  Kernel Driver  No      Manual
        Stopped OK      Ignore  No      No
perc2   perc2   Not Available  Kernel Driver  No      Disabled
        Stopped OK      Normal  No      No
perc2hib        perc2hib       Not Available  Kernel Driver  No
        Disabled        Stopped OK      Normal  No      No
pptpminiport    WAN Miniport (PPTP)
        c:\windows\system32\drivers\raspptp.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
rasl2tp WAN Miniport (L2TP)    c:\windows\system32\drivers\rasl2tp.sys
        Kernel Driver  Yes     Manual  Running OK      Normal  No      Yes

raspppoe        Remote Access PPPOE Driver
        c:\windows\system32\drivers\raspppoe.sys     Kernel Driver  Yes
        Manual  Running OK      Normal  No      Yes
raspti  Direct Parallel        c:\windows\system32\drivers\raspti.sys
        Kernel Driver  Yes     Manual  Running OK      Normal  No      Yes

rdbss   Rdbss   c:\windows\system32\drivers\rdbss.sys File System Driver
        Yes     System  Running OK      Normal  No      Yes
rdpcdd  RDPCDD  c:\windows\system32\drivers\rdpcdd.sys       Kernel Driver
        Yes     System  Running OK      Ignore  No      Yes
rdpdr   Terminal Server Device Redirector Driver
        c:\windows\system32\drivers\rdpdr.sys Kernel Driver  Yes     Manual
        Running OK      Normal  No      Yes
rdpwd   RDPWD   c:\windows\system32\drivers\rdpwd.sys Kernel Driver  Yes
        Manual  Running OK      Ignore  No      Yes
redbook Digital CD Audio Playback Filter Driver
        c:\windows\system32\drivers\redbook.sys      Kernel Driver  Yes
        System  Running OK      Normal  No      Yes
secdrv  Secdrv  c:\windows\system32\drivers\secdrv.sys       Kernel Driver
        No      Manual  Stopped OK      Normal  No      No
serenum Serenum Filter Driver  c:\windows\system32\drivers\serenum.sys
        Kernel Driver  Yes     Manual  Running OK      Normal  No      Yes

serial  Serial port driver     c:\windows\system32\drivers\serial.sys
        Kernel Driver  Yes     System  Running OK      Ignore  No      Yes

sfloppy Sfloppy c:\windows\system32\drivers\sfloppy.sys      Kernel Driver
        No      System  Stopped OK      Ignore  No      No
simbad  Simbad  Not Available  Kernel Driver  No      Disabled
        Stopped 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
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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
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
Microsoft System Management BIOS Driver      No      SYSTEM  5.2.3790.1830
        10/1/2002      (Standard system devices)     machine.inf    Not
Available      ROOT\SYSTEM\0002
Microcode Update Device       No      SYSTEM  5.2.3790.0     10/1/2002
        (Standard system devices)     machine.inf    Not Available
        ROOT\SYSTEM\0001
Plug and Play Software Device Enumerator     No      SYSTEM  5.2.3790.0
        10/1/2002      (Standard system devices)     machine.inf    Not
Available      ROOT\SYSTEM\0000
Terminal Server Mouse Driver  No      SYSTEM  5.2.3790.0     10/1/2002
        (Standard system devices)     machine.inf    Not Available
        ROOT\RDP_MOU\0000
Terminal Server Keyboard Driver       No      SYSTEM  5.2.3790.0
        10/1/2002      (Standard system devices)     machine.inf    Not
Available      ROOT\RDP_KBD\0000
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_PTIMINIPORT\0000
WAN Miniport (PPTP)    No      NET     5.2.3790.0     10/1/2002
        Microsoft      netrasa.inf    Not Available
        ROOT\MS_PPTPMINIPORT\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   No      MEDIA   5.2.3790.0     10/1/2002      (Standard
system devices)        wave.inf       Not Available  ROOT\MEDIA\MS_MMVID

Legacy Video Capture Devices  No      MEDIA   5.2.3790.0     10/1/2002
        (Standard system devices)     wave.inf       Not Available
        ROOT\MEDIA\MS_MMVCD
Media Control Devices  No      MEDIA   5.2.3790.0     10/1/2002
        (Standard system devices)     wave.inf       Not Available
        ROOT\MEDIA\MS_MMMCI
Legacy Audio Drivers   No      MEDIA   5.2.3790.0     10/1/2002
        (Standard system devices)     wave.inf       Not Available
        ROOT\MEDIA\MS_MMDRV
Audio Codecs   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  Not Available
        ROOT\LEGACY_WANARP\0000
volsnap Not Available  LEGACYDRIVER   Not Available  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  Not Available
       ROOT\LEGACY_VGASAVE\0000
TDTCP  Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_TDTCP\0000
TCP/IP Protocol Driver Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
       ROOT\LEGACY_TCPIP\0000
TbDriver       Not Available  LEGACYDRIVER   Not Available  Not Available
       Not Available  Not Available  Not Available
       ROOT\LEGACY_TBDRIVER\0000
RDPWD  Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_RDPWD\0000
RDPCDD Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_RDPCDD\0000

Remote Access Auto Connection Driver  Not Available  LEGACYDRIVER   Not
Available      Not Available  Not Available  Not Available  Not Available
       ROOT\LEGACY_RASACD\0000
PCIIde Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_PCIIDE\0000

Partition Manager     Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
       ROOT\LEGACY_PARTMGR\0000
Null   Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_NULL\0000
NetBios over Tcpip    Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
       ROOT\LEGACY_NETBT\0000
NDProxy Not Available  LEGACYDRIVER   Not Available  Not Available  Not
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  Not Available
       ROOT\LEGACY_NDISUIO\0000
Remote Access NDIS TAPI Driver        Not Available  LEGACYDRIVER   Not
Available      Not Available  Not Available  Not Available  Not Available
       ROOT\LEGACY_NDISTAPI\0000
NDIS System Driver    Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
       ROOT\LEGACY_NDIS\0000
mountmgr       Not Available  LEGACYDRIVER   Not Available  Not Available
       Not Available  Not Available  Not Available
       ROOT\LEGACY_MOUNTMGR\0000
mnmdd  Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_MNMDD\0000
lp6nds35       Not Available  LEGACYDRIVER   Not Available  Not Available
       Not Available  Not Available  Not Available
       ROOT\LEGACY_LP6NDS35\0000
ksecdd Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_KSECDD\0000

IPSEC driver   Not Available  LEGACYDRIVER   Not Available  Not Available
       Not Available  Not Available  Not Available
       ROOT\LEGACY_IPSEC\0000
HTTP   Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_HTTP\0000
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      Not Available  Not Available  ROOT\LEGACY_FIPS\0000
dmload Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_DMLOAD\0000

dmboot Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_DMBOOT\0000

CRC Disk Filter Driver Not Available  LEGACYDRIVER   Not Available  Not
Available      Not Available  Not Available  Not Available
       ROOT\LEGACY_CRCDISK\0000
Beep   Not Available  LEGACYDRIVER   Not Available  Not Available  Not
Available      Not Available  Not Available  ROOT\LEGACY_BEEP\0000
AFD Networking Support Environment   Not Available  LEGACYDRIVER   Not
Available      Not Available  Not 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\FTDISK\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
```

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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\READDATAPORT\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     5.2.3790.0
        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 LP11000_FD00 - Unisys VI       No      UNISYS_VI      2.339.0.6
        2/27/2006      Emulex  oem1.inf       Not Available
        PCI\VEN_10DF&DEV_FD00&SUBSYS_FD0010DF&REV_01\5&1B4F3478&0&190230

Emulex LP11000_FD00 - Unisys VI       No      UNISYS_VI      2.339.0.6
        2/27/2006      Emulex  oem1.inf       Not Available
        PCI\VEN_10DF&DEV_FD00&SUBSYS_FD0010DF&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
        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  HTREE\ROOT\0

[Environment Variables]

Variable       Value   User Name
ClusterLog     C:\WINDOWS\Cluster\cluster.log       <SYSTEM>
ComSpec %SystemRoot%\system32\cmd.exe <SYSTEM>
FP_NO_HOST_CHECK       NO      <SYSTEM>
NUMBER_OF_PROCESSORS   4       <SYSTEM>
OS     Windows_NT     <SYSTEM>
Path
        C:\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\binn\;C:\Program Files\Microsoft SQL
Server\90\DTS\Binn\;C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\;C:\SQL_Server_2005_Standard_Edit
ion_x86_IDW16\Servers  <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>
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

[Running Tasks]

Name    Path    Process ID     Priority       Min Working Set        Max
Working Set    Start Time     Version Size    File Date
system idle process    Not Available  0       0       Not Available  Not
Available      Not Available  Not Available  Not Available  Not Available

system  Not Available  4       8       0       1413120 Not Available  Not
Available      Not Available  Not Available
smss.exe       Not Available  564     11      204800  1413120 4/19/2006
12:28 PM       Not Available  Not Available  Not Available
csrss.exe      Not Available  660     13      Not Available  Not Available
       4/19/2006 12:28 PM     Not Available  Not Available  Not Available

winlogon.exe   c:\windows\system32\winlogon.exe      732     13      204800
       1413120 4/19/2006 12:28 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      792     9       204800
       1413120 4/19/2006 12:28 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 820     9       204800
       1413120 4/19/2006 12:28 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      1020    8       204800
       1413120 4/19/2006 12:28 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  1140    8       Not Available  Not Available
       4/19/2006 12:28 PM     Not Available  Not Available  Not Available

svchost.exe    c:\windows\system32\svchost.exe      1188    8       204800
       1413120 4/19/2006 12:28 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  1460    8       Not Available  Not Available
       4/19/2006 12:28 PM     Not Available  Not Available  Not Available

mnmsrvc.exe    c:\windows\system32\mnmsrvc.exe      1680    8       204800
       1413120 4/19/2006 12:28 PM     5.2.3790.1830  32.00 KB (32,768
bytes)  7/22/2005 1:04 PM
svchost.exe    Not Available  1736    8       Not Available  Not Available
       4/19/2006 12:28 PM     Not Available  Not Available  Not Available

rundll32.exe   c:\windows\system32\rundll32.exe      1748    8       204800
       1413120 4/19/2006 12:28 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       348     8       204800
       1413120 4/19/2006 12:28 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      412     8       204800
       1413120 4/19/2006 12:28 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
       4/19/2006 12:28 PM     Not Available  54.50 KB (55,808 bytes)
       10/20/2004 12:35 PM
svchost.exe    c:\windows\system32\svchost.exe      1544    8       204800
       1413120 4/19/2006 12:28 PM     5.2.3790.1830 (srv03_sp1_rtm.050324-
1447)   14.00 KB (14,336 bytes)       7/22/2005 1:04 PM
csrss.exe      Not Available  1952    13      Not Available  Not Available
       4/19/2006 12:29 PM     Not Available  Not Available  Not Available

winlogon.exe   c:\windows\system32\winlogon.exe      1996    13      204800
       1413120 4/19/2006 12:29 PM     5.2.3790.1830 (srv03_sp1_rtm.050324-
1447)   497.00 KB (508,928 bytes)     7/22/2005 1:04 PM
rdpclip.exe    c:\windows\system32\rdpclip.exe       828     8       204800
       1413120 4/19/2006 12:29 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      1044    8       204800
       1413120 4/19/2006 12:29 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       1088    8       204800
       1413120 4/19/2006 12:29 PM     6.00.3790.1830
(srv03_sp1_rtm.050324-1447)   1.00 MB (1,050,624 bytes)     7/22/2005 1:04
PM
msinfo32.exe   c:\program files\common files\microsoft
shared\msinfo\msinfo32.exe    2036    8       204800  1413120 4/19/2006
12:29 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  592     8       Not Available  Not Available
       4/19/2006 12:29 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
```

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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
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
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
dimsntfy       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\dimsntfy.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

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
winspool       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\winspool.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
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
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
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
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
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
msvcp60 6.05.2144.0    388.00 KB (397,312 bytes)     3/25/2003 11:00 AM
        Microsoft Corporation  c:\windows\system32\msvcp60.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
umpnpmgr       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\umpnpmgr.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
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
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
msv1_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\msv1_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
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
mswsock 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\mswsock.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
```

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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
wiarpc  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\wiarpc.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
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
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
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
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
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
adsldpc 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\adsldpc.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
```

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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
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
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
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
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
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
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
msi     3.1.4000.1830  2.76 MB (2,890,240 bytes)     7/22/2005 1:04 PM
        Microsoft Corporation  c:\windows\system32\msi.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
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

winrnr  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\winrnr.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
```

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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
powrprof       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\powrprof.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.drv
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\inetsrv\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\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   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\wdfmgr.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  WmdmPmSN       Stopped Manual  Share
Process c:\windows\system32\svchost.exe -k netsvcs   Normal  LocalSystem
        0
Windows Management Instrumentation Driver Extensions Wmi     Stopped Manual
        Share Process  c:\windows\system32\svchost.exe -k netsvcs   Normal
        LocalSystem    0
WMI Performance Adapter       WmiApSrv       Stopped Manual  Own Process
        c:\windows\system32\wbem\wmiapsrv.exe Normal  LocalSystem    0

Automatic Updates      wuauserv       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 Platform SDK February 2003  All Users:Microsoft Platform SDK
February 2003  All Users
Microsoft Platform SDK February 2003\Open Build Environment Window  All
Users:Microsoft Platform SDK February 2003\Open Build Environment Window
        All Users
Microsoft Platform SDK February 2003\Open Build Environment Window\Windows
2000 Build Environment All Users:Microsoft Platform SDK February 2003\Open
Build Environment Window\Windows 2000 Build Environment     All Users

Microsoft Platform SDK February 2003\Open Build Environment Window\Windows
Server 2003 32-bit Build Environment  All Users:Microsoft Platform SDK
February 2003\Open Build Environment Window\Windows Server 2003 32-bit
Build Environment      All Users
Microsoft Platform SDK February 2003\Open Build Environment Window\Windows
Server 2003 64-bit Build Environment  All Users:Microsoft Platform SDK
February 2003\Open Build Environment Window\Windows Server 2003 64-bit
Build Environment      All Users
Microsoft Platform SDK February 2003\Open Build Environment Window\Windows
XP 32-bit Build Environment   All Users:Microsoft Platform SDK February
2003\Open Build Environment Window\Windows XP 32-bit Build Environment
        All Users
Microsoft Platform SDK February 2003\Open Build Environment Window\Windows
XP 64-bit Build Environment   All Users:Microsoft Platform SDK February
2003\Open Build Environment Window\Windows XP 64-bit Build Environment
        All Users
Microsoft Platform SDK February 2003\Tools   All Users:Microsoft Platform
SDK February 2003\Tools       All Users
Microsoft Platform SDK February 2003\Visual Studio Registration    All
Users:Microsoft Platform SDK February 2003\Visual Studio Registration
        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 5:55:26 PM
        C:\WINDOWS\system32    Microsoft Corporation
advpack.dll    6.0.3790.1830  98 KB   3/24/2005 5:55:28 PM
        C:\WINDOWS\system32    Microsoft Corporation
asctrls.ocx    6.0.3790.0     90 KB   3/25/2003 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
browselc.dll   6.0.3790.0     62 KB   3/25/2003 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
browseui.dll   6.0.3790.1830  1,009 KB       3/24/2005 5:56:10 PM
        C:\WINDOWS\system32    Microsoft Corporation
cdfview.dll    6.0.3790.1830  149 KB  3/24/2005 5:56:32 PM
        C:\WINDOWS\system32    Microsoft Corporation
comctl32.dll   5.82.3790.1830 585 KB  3/24/2005 5:57:56 PM
        C:\WINDOWS\system32    Microsoft Corporation
dxtrans.dll    6.3.3790.1830  205 KB  3/24/2005 6:00:58 PM
        C:\WINDOWS\system32    Microsoft Corporation
dxtmsft.dll    6.3.3790.1830  355 KB  3/24/2005 6:00:58 PM
        C:\WINDOWS\system32    Microsoft Corporation
iecont.dll     <File Missing> Not Available  Not Available  Not Available
        Not Available
iecontlc.dll   <File Missing> Not Available  Not Available  Not Available
        Not Available
iedkcs32.dll   16.0.3790.1830 324 KB  3/24/2005 6:04:58 PM
        C:\WINDOWS\system32    Microsoft Corporation
iepeers.dll    6.0.3790.1830  248 KB  3/24/2005 6:04:58 PM
        C:\WINDOWS\system32    Microsoft Corporation
```

```
iesetup.dll    6.0.3790.1830  61 KB   3/24/2005 6:04:58 PM
        C:\WINDOWS\system32    Microsoft Corporation
ieuinit.inf    Not Available  24 KB   3/24/2005 6:04:58 PM
        C:\WINDOWS\system32    Not Available
iexplore.exe   6.0.3790.1830  92 KB   3/24/2005 6:04:58 PM   C:\Program
Files\Internet Explorer        Microsoft Corporation
imgutil.dll    6.0.3790.1830  38 KB   3/24/2005 6:05:04 PM
        C:\WINDOWS\system32    Microsoft Corporation
inetcpl.cpl    6.0.3790.1830  358 KB  3/24/2005 6:05:06 PM
        C:\WINDOWS\system32    Microsoft Corporation
inetcplc.dll   6.0.3790.0     109 KB  3/25/2003 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
inseng.dll     6.0.3790.1830  94 KB   3/24/2005 6:05:06 PM
        C:\WINDOWS\system32    Microsoft Corporation
mlang.dll      6.0.3790.1830  578 KB  3/24/2005 6:07:20 PM
        C:\WINDOWS\system32    Microsoft Corporation
msencode.dll   2002.10.4.0    112 KB  3/25/2003 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
mshta.exe      6.0.3790.1830  30 KB   3/24/2005 6:07:26 PM
        C:\WINDOWS\system32    Microsoft Corporation
mshtml.dll     6.0.3790.1830  3,036 KB       3/24/2005 6:07:26 PM
        C:\WINDOWS\system32    Microsoft Corporation
mshtml.tlb     6.0.3790.1830  1,320 KB       3/24/2005 6:07:26 PM
        C:\WINDOWS\system32    Microsoft Corporation
mshtmled.dll   6.0.3790.1830  455 KB  3/24/2005 6:07:26 PM
        C:\WINDOWS\system32    Microsoft Corporation
mshtmler.dll   6.0.3790.1830  56 KB   3/24/2005 6:07:26 PM
        C:\WINDOWS\system32    Microsoft Corporation
msident.dll    6.0.3790.1830  48 KB   3/24/2005 6:07:28 PM
        C:\WINDOWS\system32    Microsoft Corporation
msidntld.dll   6.0.3790.0     15 KB   3/25/2003 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
msieftp.dll    6.0.3790.1830  244 KB  3/24/2005 6:07:28 PM
        C:\WINDOWS\system32    Microsoft Corporation
msrating.dll   6.0.3790.1830  144 KB  3/24/2005 6:07:36 PM
        C:\WINDOWS\system32    Microsoft Corporation
mstime.dll     6.0.3790.1830  523 KB  3/24/2005 6:07:38 PM
        C:\WINDOWS\system32    Microsoft Corporation
occache.dll    6.0.3790.1830  94 KB   3/24/2005 6:08:34 PM
        C:\WINDOWS\system32    Microsoft Corporation
proctexe.ocx   6.3.3790.1830  83 KB   3/24/2005 6:12:26 PM
        C:\WINDOWS\system32    Intel Corporation
sendmail.dll   6.0.3790.1830  56 KB   3/24/2005 6:13:36 PM
        C:\WINDOWS\system32    Microsoft Corporation
shdoclc.dll    6.0.3790.0     589 KB  3/25/2003 12:00:00 PM
        C:\WINDOWS\system32    Microsoft Corporation
shdocvw.dll    6.0.3790.1830  1,468 KB       3/24/2005 6:13:36 PM
        C:\WINDOWS\system32    Microsoft Corporation
shfolder.dll   6.0.3790.1830  25 KB   3/24/2005 6:13:36 PM
        C:\WINDOWS\system32    Microsoft Corporation
shlwapi.dll    6.0.3790.1830  314 KB  3/24/2005 6:13:40 PM
        C:\WINDOWS\system32    Microsoft Corporation
tdc.ocx 1.3.0.3130     58 KB  3/25/2003 12:00:00 PM  C:\WINDOWS\system32
        Microsoft Corporation
url.dll 6.0.3790.1830  37 KB  3/24/2005 6:26:12 PM   C:\WINDOWS\system32
        Microsoft Corporation
urlmon.dll     6.0.3790.1830  673 KB  3/24/2005 6:26:12 PM
        C:\WINDOWS\system32    Microsoft Corporation
webcheck.dll   6.0.3790.1830  273 KB  3/24/2005 6:26:16 PM
        C:\WINDOWS\system32    Microsoft Corporation
wininet.dll    6.0.3790.1830  646 KB  3/24/2005 6:26:18 PM
        C:\WINDOWS\system32    Microsoft Corporation

[Connectivity]

Item    Value
Connection Preference  Never dial

LAN Settings

AutoConfigProxy        wininet.dll
AutoProxyDetectMode    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
SDKInstall Class       Installed      file://D:\controls\sdkinst.cab


[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 8 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 8 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 Tcpip. . . . . . . . : 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 8 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 0x4176d6b2
            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 0x0000008c 0x0000000b 0x00000003 0x00000002
0x00000001 0x00000006 0x00000002 0x00000001 0x00000000 0x00000002
```

```
0x00000000 0x00000006 0x00000000 0x00000000 0x00000006 0x00000000
0x00000001 0x00000006 0x00000002 \
                  0x00000002 0x00000011 0x00000002 0x00000002 0x00000000
0x00000002 0x00000000 0x00000011 0x00000000 0x00000000 0x00000011
0x00000000 0x00000002 0x00000011 0x00000002 0x00000003 0x00000000
```

System_Currentcontrolset_Services_lpxkdrvr.txt

```
\registry\machine\system\currentcontrolset\services\lpxkdrvr
    Type = REG_DWORD 0x00000001
    Start = REG_DWORD 0x00000003
    ErrorControl = REG_DWORD 0x00000001
    ImagePath = REG_EXPAND_SZ system32\DRIVERS\lpxkdrvr.sys
    DisplayName = lpxkdrvr
    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 0x000000b8 0x000000c4
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 8 clients except for DBServer port #)

```
\registry\machine\software\microsoft\mssqlserver\client\connectto
    DBSERVER = DBNETLIB,via:tpcc-zorro,1401,0
    DSQUERY = DBMSSOCN
```

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\inetsrv
        AccessDeniedMessage = Error: Access is Denied.
        ServiceDll = REG_EXPAND_SZ
C:\WINDOWS\system32\inetsrv\iisw3adm.dll
        AcceptExOutStanding = REG_DWORD 0x00000100
        LogFileDirectory = c:\WINDOWS\System32\LogFiles
        CertMapList = c:\WINDOWS\System32\inetsrv\iiscrmap.dll
        Filter DLLs =
        ADCLaunch
            AdvancedDataFactory
            RDSServer.DataFactory
        Script Map
        Virtual Roots
            / = c:\inetpub\wwwroot,,207
            /Scripts = c:\inetpub\scripts,,204
            /IISHelp = c:\WINDOWS\help\iishelp,,201
            /IISAdmin = c:\WINDOWS\System32\inetsrv\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 1,59960
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 860
1 INITMYWID 1,86
//
//Configuration Driver 2
//
2 INITIPADDR 192.168.93.1
2 INITIISADDR 192.1.10.1
2 INITIISPORT 80
2 INITBROWSERS 860
2 INITMYWID 87,172
//
//Configuration Driver 3
//
3 INITIPADDR 192.168.93.1
3 INITIISADDR 192.1.10.1
3 INITIISPORT 80
3 INITBROWSERS 860
3 INITMYWID 173,258
//
//Configuration Driver 4
//
4 INITIPADDR 192.168.93.1
4 INITIISADDR 192.1.10.1
4 INITIISPORT 80
4 INITBROWSERS 860
4 INITMYWID 259,344
//
//Configuration Driver 5
//
5 INITIPADDR 192.168.93.1
5 INITIISADDR 192.1.10.1
5 INITIISPORT 80
5 INITBROWSERS 860
5 INITMYWID 345,430
//
//Configuration Driver 6
//
6 INITIPADDR 192.168.93.1
6 INITIISADDR 192.1.10.1
6 INITIISPORT 80
6 INITBROWSERS 860
6 INITMYWID 431,516
//
//Configuration Driver 7
//
7 INITIPADDR 192.168.93.1
7 INITIISADDR 192.1.10.1
7 INITIISPORT 80
```

```
7 INITBROWSERS 860
7 INITMYWID 517,602
//
//Configuration Driver 8
//
8 INITIPADDR 192.168.93.1
8 INITIISADDR 192.1.10.1
8 INITIISPORT 80
8 INITBROWSERS 860
8 INITMYWID 603,688
//
//Configuration Driver 9
//
9 INITIPADDR 192.168.93.1
9 INITIISADDR 192.1.10.1
9 INITIISPORT 80
9 INITBROWSERS 860
9 INITMYWID 689,774
//
//Configuration Driver 10
//
10 INITIPADDR 192.168.93.1
10 INITIISADDR 192.1.10.1
10 INITIISPORT 80
10 INITBROWSERS 860
10 INITMYWID 775,860
//
//Configuration Driver 11
//
11 INITIPADDR 192.168.93.1
11 INITIISADDR 192.1.10.1
11 INITIISPORT 80
11 INITBROWSERS 860
11 INITMYWID 861,946
//
//Configuration Driver 12
//
12 INITIPADDR 192.168.93.1
12 INITIISADDR 192.1.10.1
12 INITIISPORT 80
12 INITBROWSERS 860
12 INITMYWID 947,1032
//
//Configuration Driver 13
//
13 INITIPADDR 192.168.93.1
13 INITIISADDR 192.1.10.1
13 INITIISPORT 80
13 INITBROWSERS 860
13 INITMYWID 1033,1118
//
//Configuration Driver 14
//
14 INITIPADDR 192.168.93.1
14 INITIISADDR 192.1.10.1
14 INITIISPORT 80
14 INITBROWSERS 860
14 INITMYWID 1119,1204
//
//Configuration Driver 15
//
15 INITIPADDR 192.168.93.1
15 INITIISADDR 192.1.10.1
15 INITIISPORT 80
15 INITBROWSERS 860
15 INITMYWID 1205,1290
//
//Configuration Driver 16
//
16 INITIPADDR 192.168.93.1
16 INITIISADDR 192.1.10.1
16 INITIISPORT 80
16 INITBROWSERS 860
16 INITMYWID 1291,1376
//
//Configuration Driver 17
//
17 INITIPADDR 192.168.93.1
17 INITIISADDR 192.1.10.1
17 INITIISPORT 80
17 INITBROWSERS 860
17 INITMYWID 1377,1462
//
//Configuration Driver 18
//
18 INITIPADDR 192.168.93.1
18 INITIISADDR 192.1.10.1
18 INITIISPORT 80
18 INITBROWSERS 860
18 INITMYWID 1463,1548
//
//Configuration Driver 19
//
19 INITIPADDR 192.168.93.1
19 INITIISADDR 192.1.10.1
19 INITIISPORT 80
19 INITBROWSERS 860
19 INITMYWID 1549,1634
//
//Configuration Driver 20
//
20 INITIPADDR 192.168.93.1
20 INITIISADDR 192.1.10.1
20 INITIISPORT 80
20 INITBROWSERS 860
20 INITMYWID 1635,1720
//
//Configuration Driver 21
//
21 INITIPADDR 192.168.93.1
21 INITIISADDR 192.1.10.1
21 INITIISPORT 80
21 INITBROWSERS 860
21 INITMYWID 1721,1806
//
//Configuration Driver 22
```

```
//
22 INITIPADDR 192.168.93.1
22 INITIISADDR 192.1.10.1
22 INITIISPORT 80
22 INITBROWSERS 860
22 INITMYWID 1807,1892
//
//Configuration Driver 23
//
23 INITIPADDR 192.168.93.1
23 INITIISADDR 192.1.10.1
23 INITIISPORT 80
23 INITBROWSERS 860
23 INITMYWID 1893,1978
//
//Configuration Driver 24
//
24 INITIPADDR 192.168.93.1
24 INITIISADDR 192.1.10.1
24 INITIISPORT 80
24 INITBROWSERS 860
24 INITMYWID 1979,2064
//
//Configuration Driver 25
//
25 INITIPADDR 192.168.93.1
25 INITIISADDR 192.1.10.1
25 INITIISPORT 80
25 INITBROWSERS 860
25 INITMYWID 2065,2150
//
//Configuration Driver 26
//
26 INITIPADDR 192.168.93.1
26 INITIISADDR 192.1.10.1
26 INITIISPORT 80
26 INITBROWSERS 860
26 INITMYWID 2151,2236
//
//Configuration Driver 27
//
27 INITIPADDR 192.168.93.1
27 INITIISADDR 192.1.10.1
27 INITIISPORT 80
27 INITBROWSERS 860
27 INITMYWID 2237,2322
//
//Configuration Driver 28
//
28 INITIPADDR 192.168.93.1
28 INITIISADDR 192.1.10.1
28 INITIISPORT 80
28 INITBROWSERS 860
28 INITMYWID 2323,2408
//
//Configuration Driver 29
//
29 INITIPADDR 192.168.93.1
29 INITIISADDR 192.1.10.1
29 INITIISPORT 80
29 INITBROWSERS 860
29 INITMYWID 2409,2494
//
//Configuration Driver 30
//
30 INITIPADDR 192.168.93.1
30 INITIISADDR 192.1.10.1
30 INITIISPORT 80
30 INITBROWSERS 860
30 INITMYWID 2495,2580
//
//Configuration Driver 31
//
31 INITIPADDR 192.168.93.1
31 INITIISADDR 192.1.10.1
31 INITIISPORT 80
31 INITBROWSERS 860
31 INITMYWID 2581,2666
//
//Configuration Driver 32
//
32 INITIPADDR 192.168.93.1
32 INITIISADDR 192.1.10.1
32 INITIISPORT 80
32 INITBROWSERS 860
32 INITMYWID 2667,2752
//
//Configuration Driver 33
//
33 INITIPADDR 192.168.93.1
33 INITIISADDR 192.1.10.1
33 INITIISPORT 80
33 INITBROWSERS 860
33 INITMYWID 2753,2838
//
//Configuration Driver 34
//
34 INITIPADDR 192.168.93.1
34 INITIISADDR 192.1.10.1
34 INITIISPORT 80
34 INITBROWSERS 860
34 INITMYWID 2839,2924
//
//Configuration Driver 35
//
35 INITIPADDR 192.168.93.1
35 INITIISADDR 192.1.10.1
35 INITIISPORT 80
35 INITBROWSERS 860
35 INITMYWID 2925,3010
//
//Configuration Driver 36
//
36 INITIPADDR 192.168.93.1
36 INITIISADDR 192.1.10.1
36 INITIISPORT 80
```

```
36 INITBROWSERS 860
36 INITMYWID 3011,3096
//
//Configuration Driver 37
//
37 INITIPADDR 192.168.93.1
37 INITIISADDR 192.1.10.1
37 INITIISPORT 80
37 INITBROWSERS 860
37 INITMYWID 3097,3182
//
//Configuration Driver 38
//
38 INITIPADDR 192.168.93.1
38 INITIISADDR 192.1.10.1
38 INITIISPORT 80
38 INITBROWSERS 860
38 INITMYWID 3183,3268
//
//Configuration Driver 39
//
39 INITIPADDR 192.168.93.1
39 INITIISADDR 192.1.10.1
39 INITIISPORT 80
39 INITBROWSERS 860
39 INITMYWID 3269,3354
//
//Configuration Driver 40
//
40 INITIPADDR 192.168.93.1
40 INITIISADDR 192.1.10.1
40 INITIISPORT 80
40 INITBROWSERS 860
40 INITMYWID 3355,3440
//
//Configuration Driver 41
//
41 INITIPADDR 192.168.93.2
41 INITIISADDR 192.1.10.1
41 INITIISPORT 80
41 INITBROWSERS 860
41 INITMYWID 3441,3526
//
//Configuration Driver 42
//
42 INITIPADDR 192.168.93.2
42 INITIISADDR 192.1.10.1
42 INITIISPORT 80
42 INITBROWSERS 860
42 INITMYWID 3527,3612
//
//Configuration Driver 43
//
43 INITIPADDR 192.168.93.2
43 INITIISADDR 192.1.10.1
43 INITIISPORT 80
43 INITBROWSERS 860
43 INITMYWID 3613,3698
//
//Configuration Driver 44
//
44 INITIPADDR 192.168.93.2
44 INITIISADDR 192.1.10.1
44 INITIISPORT 80
44 INITBROWSERS 860
44 INITMYWID 3699,3784
//
//Configuration Driver 45
//
45 INITIPADDR 192.168.93.2
45 INITIISADDR 192.1.10.1
45 INITIISPORT 80
45 INITBROWSERS 860
45 INITMYWID 3785,3870
//
//Configuration Driver 46
//
46 INITIPADDR 192.168.93.2
46 INITIISADDR 192.1.10.1
46 INITIISPORT 80
46 INITBROWSERS 860
46 INITMYWID 3871,3956
//
//Configuration Driver 47
//
47 INITIPADDR 192.168.93.2
47 INITIISADDR 192.1.10.1
47 INITIISPORT 80
47 INITBROWSERS 860
47 INITMYWID 3957,4042
//
//Configuration Driver 48
//
48 INITIPADDR 192.168.93.2
48 INITIISADDR 192.1.10.1
48 INITIISPORT 80
48 INITBROWSERS 860
48 INITMYWID 4043,4128
//
//Configuration Driver 49
//
49 INITIPADDR 192.168.93.2
49 INITIISADDR 192.1.10.1
49 INITIISPORT 80
49 INITBROWSERS 860
49 INITMYWID 4129,4214
//
//Configuration Driver 50
//
50 INITIPADDR 192.168.93.2
50 INITIISADDR 192.1.10.1
50 INITIISPORT 80
50 INITBROWSERS 860
50 INITMYWID 4215,4300
//
//Configuration Driver 51
```

```
//
51 INITIPADDR 192.168.93.2
51 INITIISADDR 192.1.10.1
51 INITIISPORT 80
51 INITBROWSERS 860
51 INITMYWID 4301,4386
//
//Configuration Driver 52
//
52 INITIPADDR 192.168.93.2
52 INITIISADDR 192.1.10.1
52 INITIISPORT 80
52 INITBROWSERS 860
52 INITMYWID 4387,4472
//
//Configuration Driver 53
//
53 INITIPADDR 192.168.93.2
53 INITIISADDR 192.1.10.1
53 INITIISPORT 80
53 INITBROWSERS 860
53 INITMYWID 4473,4558
//
//Configuration Driver 54
//
54 INITIPADDR 192.168.93.2
54 INITIISADDR 192.1.10.1
54 INITIISPORT 80
54 INITBROWSERS 860
54 INITMYWID 4559,4644
//
//Configuration Driver 55
//
55 INITIPADDR 192.168.93.2
55 INITIISADDR 192.1.10.1
55 INITIISPORT 80
55 INITBROWSERS 860
55 INITMYWID 4645,4730
//
//Configuration Driver 56
//
56 INITIPADDR 192.168.93.2
56 INITIISADDR 192.1.10.1
56 INITIISPORT 80
56 INITBROWSERS 860
56 INITMYWID 4731,4816
//
//Configuration Driver 57
//
57 INITIPADDR 192.168.93.2
57 INITIISADDR 192.1.10.1
57 INITIISPORT 80
57 INITBROWSERS 860
57 INITMYWID 4817,4902
//
//Configuration Driver 58
//
58 INITIPADDR 192.168.93.2
58 INITIISADDR 192.1.10.1
58 INITIISPORT 80
58 INITBROWSERS 860
58 INITMYWID 4903,4988
//
//Configuration Driver 59
//
59 INITIPADDR 192.168.93.2
59 INITIISADDR 192.1.10.1
59 INITIISPORT 80
59 INITBROWSERS 860
59 INITMYWID 4989,5074
//
//Configuration Driver 60
//
60 INITIPADDR 192.168.93.2
60 INITIISADDR 192.1.10.1
60 INITIISPORT 80
60 INITBROWSERS 860
60 INITMYWID 5075,5160
//
//Configuration Driver 61
//
61 INITIPADDR 192.168.93.2
61 INITIISADDR 192.1.10.1
61 INITIISPORT 80
61 INITBROWSERS 860
61 INITMYWID 5161,5246
//
//Configuration Driver 62
//
62 INITIPADDR 192.168.93.2
62 INITIISADDR 192.1.10.1
62 INITIISPORT 80
62 INITBROWSERS 860
62 INITMYWID 5247,5332
//
//Configuration Driver 63
//
63 INITIPADDR 192.168.93.2
63 INITIISADDR 192.1.10.1
63 INITIISPORT 80
63 INITBROWSERS 860
63 INITMYWID 5333,5418
//
//Configuration Driver 64
//
64 INITIPADDR 192.168.93.2
64 INITIISADDR 192.1.10.1
64 INITIISPORT 80
64 INITBROWSERS 860
64 INITMYWID 5419,5504
//
//Configuration Driver 65
//
65 INITIPADDR 192.168.93.2
65 INITIISADDR 192.1.10.1
65 INITIISPORT 80
```

```
65 INITBROWSERS 860
65 INITMYWID 5505,5590
//
//Configuration Driver 66
//
66 INITIPADDR 192.168.93.2
66 INITIISADDR 192.1.10.1
66 INITIISPORT 80
66 INITBROWSERS 860
66 INITMYWID 5591,5676
//
//Configuration Driver 67
//
67 INITIPADDR 192.168.93.2
67 INITIISADDR 192.1.10.1
67 INITIISPORT 80
67 INITBROWSERS 860
67 INITMYWID 5677,5762
//
//Configuration Driver 68
//
68 INITIPADDR 192.168.93.2
68 INITIISADDR 192.1.10.1
68 INITIISPORT 80
68 INITBROWSERS 860
68 INITMYWID 5763,5848
//
//Configuration Driver 69
//
69 INITIPADDR 192.168.93.2
69 INITIISADDR 192.1.10.1
69 INITIISPORT 80
69 INITBROWSERS 860
69 INITMYWID 5849,5934
//
//Configuration Driver 70
//
70 INITIPADDR 192.168.93.2
70 INITIISADDR 192.1.10.1
70 INITIISPORT 80
70 INITBROWSERS 860
70 INITMYWID 5935,6020
//
//Configuration Driver 71
//
71 INITIPADDR 192.168.93.2
71 INITIISADDR 192.1.10.1
71 INITIISPORT 80
71 INITBROWSERS 860
71 INITMYWID 6021,6106
//
//Configuration Driver 72
//
72 INITIPADDR 192.168.93.2
72 INITIISADDR 192.1.10.1
72 INITIISPORT 80
72 INITBROWSERS 860
72 INITMYWID 6107,6192
//
//Configuration Driver 73
//
73 INITIPADDR 192.168.93.2
73 INITIISADDR 192.1.10.1
73 INITIISPORT 80
73 INITBROWSERS 860
73 INITMYWID 6193,6278
//
//Configuration Driver 74
//
74 INITIPADDR 192.168.93.2
74 INITIISADDR 192.1.10.1
74 INITIISPORT 80
74 INITBROWSERS 860
74 INITMYWID 6279,6364
//
//Configuration Driver 75
//
75 INITIPADDR 192.168.93.2
75 INITIISADDR 192.1.10.1
75 INITIISPORT 80
75 INITBROWSERS 860
75 INITMYWID 6365,6450
//
//Configuration Driver 76
//
76 INITIPADDR 192.168.93.2
76 INITIISADDR 192.1.10.1
76 INITIISPORT 80
76 INITBROWSERS 860
76 INITMYWID 6451,6536
//
//Configuration Driver 77
//
77 INITIPADDR 192.168.93.2
77 INITIISADDR 192.1.10.1
77 INITIISPORT 80
77 INITBROWSERS 860
77 INITMYWID 6537,6622
//
//Configuration Driver 78
//
78 INITIPADDR 192.168.93.2
78 INITIISADDR 192.1.10.1
78 INITIISPORT 80
78 INITBROWSERS 860
78 INITMYWID 6623,6708
//
//Configuration Driver 79
//
79 INITIPADDR 192.168.93.2
79 INITIISADDR 192.1.10.1
79 INITIISPORT 80
79 INITBROWSERS 860
79 INITMYWID 6709,6794
//
//Configuration Driver 80
```

```
//
80 INITIPADDR 192.168.93.2
80 INITIISADDR 192.1.10.1
80 INITIISPORT 80
80 INITBROWSERS 860
80 INITMYWID 6795,6880
//
//Configuration Driver 81
//
81 INITIPADDR 192.168.93.3
81 INITIISADDR 192.2.10.1
81 INITIISPORT 80
81 INITBROWSERS 950
81 INITMYWID 6881,6975
//
//Configuration Driver 82
//
82 INITIPADDR 192.168.93.3
82 INITIISADDR 192.2.10.1
82 INITIISPORT 80
82 INITBROWSERS 940
82 INITMYWID 6976,7069
//
//Configuration Driver 83
//
83 INITIPADDR 192.168.93.3
83 INITIISADDR 192.2.10.1
83 INITIISPORT 80
83 INITBROWSERS 950
83 INITMYWID 7070,7164
//
//Configuration Driver 84
//
84 INITIPADDR 192.168.93.3
84 INITIISADDR 192.2.10.1
84 INITIISPORT 80
84 INITBROWSERS 940
84 INITMYWID 7165,7258
//
//Configuration Driver 85
//
85 INITIPADDR 192.168.93.3
85 INITIISADDR 192.2.10.1
85 INITIISPORT 80
85 INITBROWSERS 950
85 INITMYWID 7259,7353
//
//Configuration Driver 86
//
86 INITIPADDR 192.168.93.3
86 INITIISADDR 192.2.10.1
86 INITIISPORT 80
86 INITBROWSERS 940
86 INITMYWID 7354,7447
//
//Configuration Driver 87
//
87 INITIPADDR 192.168.93.3
87 INITIISADDR 192.2.10.1
87 INITIISPORT 80
87 INITBROWSERS 950
87 INITMYWID 7448,7542
//
//Configuration Driver 88
//
88 INITIPADDR 192.168.93.3
88 INITIISADDR 192.2.10.1
88 INITIISPORT 80
88 INITBROWSERS 940
88 INITMYWID 7543,7636
//
//Configuration Driver 89
//
89 INITIPADDR 192.168.93.3
89 INITIISADDR 192.2.10.1
89 INITIISPORT 80
89 INITBROWSERS 950
89 INITMYWID 7637,7731
//
//Configuration Driver 90
//
90 INITIPADDR 192.168.93.3
90 INITIISADDR 192.2.10.1
90 INITIISPORT 80
90 INITBROWSERS 940
90 INITMYWID 7732,7825
//
//Configuration Driver 91
//
91 INITIPADDR 192.168.93.3
91 INITIISADDR 192.2.10.1
91 INITIISPORT 80
91 INITBROWSERS 950
91 INITMYWID 7826,7920
//
//Configuration Driver 92
//
92 INITIPADDR 192.168.93.3
92 INITIISADDR 192.2.10.1
92 INITIISPORT 80
92 INITBROWSERS 940
92 INITMYWID 7921,8014
//
//Configuration Driver 93
//
93 INITIPADDR 192.168.93.3
93 INITIISADDR 192.2.10.1
93 INITIISPORT 80
93 INITBROWSERS 950
93 INITMYWID 8015,8109
//
//Configuration Driver 94
//
94 INITIPADDR 192.168.93.3
94 INITIISADDR 192.2.10.1
94 INITIISPORT 80
```

```
94 INITBROWSERS 940
94 INITMYWID 8110,8203
//
//Configuration Driver 95
//
95 INITIPADDR 192.168.93.3
95 INITIISADDR 192.2.10.1
95 INITIISPORT 80
95 INITBROWSERS 950
95 INITMYWID 8204,8298
//
//Configuration Driver 96
//
96 INITIPADDR 192.168.93.3
96 INITIISADDR 192.2.10.1
96 INITIISPORT 80
96 INITBROWSERS 940
96 INITMYWID 8299,8392
//
//Configuration Driver 97
//
97 INITIPADDR 192.168.93.3
97 INITIISADDR 192.2.10.1
97 INITIISPORT 80
97 INITBROWSERS 950
97 INITMYWID 8393,8487
//
//Configuration Driver 98
//
98 INITIPADDR 192.168.93.3
98 INITIISADDR 192.2.10.1
98 INITIISPORT 80
98 INITBROWSERS 940
98 INITMYWID 8488,8581
//
//Configuration Driver 99
//
99 INITIPADDR 192.168.93.3
99 INITIISADDR 192.2.10.1
99 INITIISPORT 80
99 INITBROWSERS 950
99 INITMYWID 8582,8676
//
//Configuration Driver 100
//
100 INITIPADDR 192.168.93.3
100 INITIISADDR 192.2.10.1
100 INITIISPORT 80
100 INITBROWSERS 940
100 INITMYWID 8677,8770
//
//Configuration Driver 101
//
101 INITIPADDR 192.168.93.3
101 INITIISADDR 192.2.10.1
101 INITIISPORT 80
101 INITBROWSERS 950
101 INITMYWID 8771,8865
//
//Configuration Driver 102
//
102 INITIPADDR 192.168.93.3
102 INITIISADDR 192.2.10.1
102 INITIISPORT 80
102 INITBROWSERS 940
102 INITMYWID 8866,8959
//
//Configuration Driver 103
//
103 INITIPADDR 192.168.93.3
103 INITIISADDR 192.2.10.1
103 INITIISPORT 80
103 INITBROWSERS 950
103 INITMYWID 8960,9054
//
//Configuration Driver 104
//
104 INITIPADDR 192.168.93.3
104 INITIISADDR 192.2.10.1
104 INITIISPORT 80
104 INITBROWSERS 940
104 INITMYWID 9055,9148
//
//Configuration Driver 105
//
105 INITIPADDR 192.168.93.3
105 INITIISADDR 192.2.10.1
105 INITIISPORT 80
105 INITBROWSERS 950
105 INITMYWID 9149,9243
//
//Configuration Driver 106
//
106 INITIPADDR 192.168.93.3
106 INITIISADDR 192.2.10.1
106 INITIISPORT 80
106 INITBROWSERS 940
106 INITMYWID 9244,9337
//
//Configuration Driver 107
//
107 INITIPADDR 192.168.93.3
107 INITIISADDR 192.2.10.1
107 INITIISPORT 80
107 INITBROWSERS 950
107 INITMYWID 9338,9432
//
//Configuration Driver 108
//
108 INITIPADDR 192.168.93.3
108 INITIISADDR 192.2.10.1
108 INITIISPORT 80
108 INITBROWSERS 940
108 INITMYWID 9433,9526
//
//Configuration Driver 109
```

```
//
109 INITIPADDR 192.168.93.3
109 INITIISADDR 192.2.10.1
109 INITIISPORT 80
109 INITBROWSERS 950
109 INITMYWID 9527,9621
//
//Configuration Driver 110
//
110 INITIPADDR 192.168.93.3
110 INITIISADDR 192.2.10.1
110 INITIISPORT 80
110 INITBROWSERS 940
110 INITMYWID 9622,9715
//
//Configuration Driver 111
//
111 INITIPADDR 192.168.93.3
111 INITIISADDR 192.2.10.1
111 INITIISPORT 80
111 INITBROWSERS 950
111 INITMYWID 9716,9810
//
//Configuration Driver 112
//
112 INITIPADDR 192.168.93.3
112 INITIISADDR 192.2.10.1
112 INITIISPORT 80
112 INITBROWSERS 940
112 INITMYWID 9811,9904
//
//Configuration Driver 113
//
113 INITIPADDR 192.168.93.3
113 INITIISADDR 192.2.10.1
113 INITIISPORT 80
113 INITBROWSERS 950
113 INITMYWID 9905,9999
//
//Configuration Driver 114
//
114 INITIPADDR 192.168.93.3
114 INITIISADDR 192.2.10.1
114 INITIISPORT 80
114 INITBROWSERS 940
114 INITMYWID 10000,10093
//
//Configuration Driver 115
//
115 INITIPADDR 192.168.93.3
115 INITIISADDR 192.2.10.1
115 INITIISPORT 80
115 INITBROWSERS 950
115 INITMYWID 10094,10188
//
//Configuration Driver 116
//
116 INITIPADDR 192.168.93.3
116 INITIISADDR 192.2.10.1
116 INITIISPORT 80
116 INITBROWSERS 940
116 INITMYWID 10189,10282
//
//Configuration Driver 117
//
117 INITIPADDR 192.168.93.3
117 INITIISADDR 192.2.10.1
117 INITIISPORT 80
117 INITBROWSERS 950
117 INITMYWID 10283,10377
//
//Configuration Driver 118
//
118 INITIPADDR 192.168.93.3
118 INITIISADDR 192.2.10.1
118 INITIISPORT 80
118 INITBROWSERS 940
118 INITMYWID 10378,10471
//
//Configuration Driver 119
//
119 INITIPADDR 192.168.93.3
119 INITIISADDR 192.2.10.1
119 INITIISPORT 80
119 INITBROWSERS 950
119 INITMYWID 10472,10566
//
//Configuration Driver 120
//
120 INITIPADDR 192.168.93.3
120 INITIISADDR 192.2.10.1
120 INITIISPORT 80
120 INITBROWSERS 940
120 INITMYWID 10567,10660
//
//Configuration Driver 121
//
121 INITIPADDR 192.168.93.4
121 INITIISADDR 192.2.10.1
121 INITIISPORT 80
121 INITBROWSERS 950
121 INITMYWID 10661,10755
//
//Configuration Driver 122
//
122 INITIPADDR 192.168.93.4
122 INITIISADDR 192.2.10.1
122 INITIISPORT 80
122 INITBROWSERS 940
122 INITMYWID 10756,10849
//
//Configuration Driver 123
//
123 INITIPADDR 192.168.93.4
123 INITIISADDR 192.2.10.1
123 INITIISPORT 80
```

```
123 INITBROWSERS 950
123 INITMYWID 10850,10944
//
//Configuration Driver 124
//
124 INITIPADDR 192.168.93.4
124 INITIISADDR 192.2.10.1
124 INITIISPORT 80
124 INITBROWSERS 940
124 INITMYWID 10945,11038
//
//Configuration Driver 125
//
125 INITIPADDR 192.168.93.4
125 INITIISADDR 192.2.10.1
125 INITIISPORT 80
125 INITBROWSERS 950
125 INITMYWID 11039,11133
//
//Configuration Driver 126
//
126 INITIPADDR 192.168.93.4
126 INITIISADDR 192.2.10.1
126 INITIISPORT 80
126 INITBROWSERS 940
126 INITMYWID 11134,11227
//
//Configuration Driver 127
//
127 INITIPADDR 192.168.93.4
127 INITIISADDR 192.2.10.1
127 INITIISPORT 80
127 INITBROWSERS 950
127 INITMYWID 11228,11322
//
//Configuration Driver 128
//
128 INITIPADDR 192.168.93.4
128 INITIISADDR 192.2.10.1
128 INITIISPORT 80
128 INITBROWSERS 940
128 INITMYWID 11323,11416
//
//Configuration Driver 129
//
129 INITIPADDR 192.168.93.4
129 INITIISADDR 192.2.10.1
129 INITIISPORT 80
129 INITBROWSERS 950
129 INITMYWID 11417,11511
//
//Configuration Driver 130
//
130 INITIPADDR 192.168.93.4
130 INITIISADDR 192.2.10.1
130 INITIISPORT 80
130 INITBROWSERS 940
130 INITMYWID 11512,11605
//
//Configuration Driver 131
//
131 INITIPADDR 192.168.93.4
131 INITIISADDR 192.2.10.1
131 INITIISPORT 80
131 INITBROWSERS 950
131 INITMYWID 11606,11700
//
//Configuration Driver 132
//
132 INITIPADDR 192.168.93.4
132 INITIISADDR 192.2.10.1
132 INITIISPORT 80
132 INITBROWSERS 940
132 INITMYWID 11701,11794
//
//Configuration Driver 133
//
133 INITIPADDR 192.168.93.4
133 INITIISADDR 192.2.10.1
133 INITIISPORT 80
133 INITBROWSERS 950
133 INITMYWID 11795,11889
//
//Configuration Driver 134
//
134 INITIPADDR 192.168.93.4
134 INITIISADDR 192.2.10.1
134 INITIISPORT 80
134 INITBROWSERS 940
134 INITMYWID 11890,11983
//
//Configuration Driver 135
//
135 INITIPADDR 192.168.93.4
135 INITIISADDR 192.2.10.1
135 INITIISPORT 80
135 INITBROWSERS 950
135 INITMYWID 11984,12078
//
//Configuration Driver 136
//
136 INITIPADDR 192.168.93.4
136 INITIISADDR 192.2.10.1
136 INITIISPORT 80
136 INITBROWSERS 940
136 INITMYWID 12079,12172
//
//Configuration Driver 137
//
137 INITIPADDR 192.168.93.4
137 INITIISADDR 192.2.10.1
137 INITIISPORT 80
137 INITBROWSERS 950
137 INITMYWID 12173,12267
//
//Configuration Driver 138
```

```
//
138 INITIPADDR 192.168.93.4
138 INITIISADDR 192.2.10.1
138 INITIISPORT 80
138 INITBROWSERS 940
138 INITMYWID 12268,12361
//
//Configuration Driver 139
//
139 INITIPADDR 192.168.93.4
139 INITIISADDR 192.2.10.1
139 INITIISPORT 80
139 INITBROWSERS 950
139 INITMYWID 12362,12456
//
//Configuration Driver 140
//
140 INITIPADDR 192.168.93.4
140 INITIISADDR 192.2.10.1
140 INITIISPORT 80
140 INITBROWSERS 940
140 INITMYWID 12457,12550
//
//Configuration Driver 141
//
141 INITIPADDR 192.168.93.4
141 INITIISADDR 192.2.10.1
141 INITIISPORT 80
141 INITBROWSERS 950
141 INITMYWID 12551,12645
//
//Configuration Driver 142
//
142 INITIPADDR 192.168.93.4
142 INITIISADDR 192.2.10.1
142 INITIISPORT 80
142 INITBROWSERS 940
142 INITMYWID 12646,12739
//
//Configuration Driver 143
//
143 INITIPADDR 192.168.93.4
143 INITIISADDR 192.2.10.1
143 INITIISPORT 80
143 INITBROWSERS 950
143 INITMYWID 12740,12834
//
//Configuration Driver 144
//
144 INITIPADDR 192.168.93.4
144 INITIISADDR 192.2.10.1
144 INITIISPORT 80
144 INITBROWSERS 940
144 INITMYWID 12835,12928
//
//Configuration Driver 145
//
145 INITIPADDR 192.168.93.4
145 INITIISADDR 192.2.10.1
145 INITIISPORT 80
145 INITBROWSERS 950
145 INITMYWID 12929,13023
//
//Configuration Driver 146
//
146 INITIPADDR 192.168.93.4
146 INITIISADDR 192.2.10.1
146 INITIISPORT 80
146 INITBROWSERS 940
146 INITMYWID 13024,13117
//
//Configuration Driver 147
//
147 INITIPADDR 192.168.93.4
147 INITIISADDR 192.2.10.1
147 INITIISPORT 80
147 INITBROWSERS 950
147 INITMYWID 13118,13212
//
//Configuration Driver 148
//
148 INITIPADDR 192.168.93.4
148 INITIISADDR 192.2.10.1
148 INITIISPORT 80
148 INITBROWSERS 940
148 INITMYWID 13213,13306
//
//Configuration Driver 149
//
149 INITIPADDR 192.168.93.4
149 INITIISADDR 192.2.10.1
149 INITIISPORT 80
149 INITBROWSERS 950
149 INITMYWID 13307,13401
//
//Configuration Driver 150
//
150 INITIPADDR 192.168.93.4
150 INITIISADDR 192.2.10.1
150 INITIISPORT 80
150 INITBROWSERS 940
150 INITMYWID 13402,13495
//
//Configuration Driver 151
//
151 INITIPADDR 192.168.93.4
151 INITIISADDR 192.2.10.1
151 INITIISPORT 80
151 INITBROWSERS 950
151 INITMYWID 13496,13590
//
//Configuration Driver 152
//
152 INITIPADDR 192.168.93.4
152 INITIISADDR 192.2.10.1
152 INITIISPORT 80
```

```
152 INITBROWSERS 940
152 INITMYWID 13591,13684
//
//Configuration Driver 153
//
153 INITIPADDR 192.168.93.4
153 INITIISADDR 192.2.10.1
153 INITIISPORT 80
153 INITBROWSERS 950
153 INITMYWID 13685,13779
//
//Configuration Driver 154
//
154 INITIPADDR 192.168.93.4
154 INITIISADDR 192.2.10.1
154 INITIISPORT 80
154 INITBROWSERS 940
154 INITMYWID 13780,13873
//
//Configuration Driver 155
//
155 INITIPADDR 192.168.93.4
155 INITIISADDR 192.2.10.1
155 INITIISPORT 80
155 INITBROWSERS 950
155 INITMYWID 13874,13968
//
//Configuration Driver 156
//
156 INITIPADDR 192.168.93.4
156 INITIISADDR 192.2.10.1
156 INITIISPORT 80
156 INITBROWSERS 940
156 INITMYWID 13969,14062
//
//Configuration Driver 157
//
157 INITIPADDR 192.168.93.4
157 INITIISADDR 192.2.10.1
157 INITIISPORT 80
157 INITBROWSERS 950
157 INITMYWID 14063,14157
//
//Configuration Driver 158
//
158 INITIPADDR 192.168.93.4
158 INITIISADDR 192.2.10.1
158 INITIISPORT 80
158 INITBROWSERS 940
158 INITMYWID 14158,14251
//
//Configuration Driver 159
//
159 INITIPADDR 192.168.93.4
159 INITIISADDR 192.2.10.1
159 INITIISPORT 80
159 INITBROWSERS 950
159 INITMYWID 14252,14346
//
//Configuration Driver 160
//
160 INITIPADDR 192.168.93.4
160 INITIISADDR 192.2.10.1
160 INITIISPORT 80
160 INITBROWSERS 940
160 INITMYWID 14347,14440
//
//Configuration Driver 161
//
161 INITIPADDR 192.168.93.5
161 INITIISADDR 192.3.10.1
161 INITIISPORT 80
161 INITBROWSERS 960
161 INITMYWID 14441,14536
//
//Configuration Driver 162
//
162 INITIPADDR 192.168.93.5
162 INITIISADDR 192.3.10.1
162 INITIISPORT 80
162 INITBROWSERS 960
162 INITMYWID 14537,14632
//
//Configuration Driver 163
//
163 INITIPADDR 192.168.93.5
163 INITIISADDR 192.3.10.1
163 INITIISPORT 80
163 INITBROWSERS 960
163 INITMYWID 14633,14728
//
//Configuration Driver 164
//
164 INITIPADDR 192.168.93.5
164 INITIISADDR 192.3.10.1
164 INITIISPORT 80
164 INITBROWSERS 960
164 INITMYWID 14729,14824
//
//Configuration Driver 165
//
165 INITIPADDR 192.168.93.5
165 INITIISADDR 192.3.10.1
165 INITIISPORT 80
165 INITBROWSERS 960
165 INITMYWID 14825,14920
//
//Configuration Driver 166
//
166 INITIPADDR 192.168.93.5
166 INITIISADDR 192.3.10.1
166 INITIISPORT 80
166 INITBROWSERS 960
166 INITMYWID 14921,15016
//
//Configuration Driver 167
```

```
//
167 INITIPADDR 192.168.93.5
167 INITIISADDR 192.3.10.1
167 INITIISPORT 80
167 INITBROWSERS 960
167 INITMYWID 15017,15112
//
//Configuration Driver 168
//
168 INITIPADDR 192.168.93.5
168 INITIISADDR 192.3.10.1
168 INITIISPORT 80
168 INITBROWSERS 960
168 INITMYWID 15113,15208
//
//Configuration Driver 169
//
169 INITIPADDR 192.168.93.5
169 INITIISADDR 192.3.10.1
169 INITIISPORT 80
169 INITBROWSERS 960
169 INITMYWID 15209,15304
//
//Configuration Driver 170
//
170 INITIPADDR 192.168.93.5
170 INITIISADDR 192.3.10.1
170 INITIISPORT 80
170 INITBROWSERS 960
170 INITMYWID 15305,15400
//
//Configuration Driver 171
//
171 INITIPADDR 192.168.93.5
171 INITIISADDR 192.3.10.1
171 INITIISPORT 80
171 INITBROWSERS 960
171 INITMYWID 15401,15496
//
//Configuration Driver 172
//
172 INITIPADDR 192.168.93.5
172 INITIISADDR 192.3.10.1
172 INITIISPORT 80
172 INITBROWSERS 960
172 INITMYWID 15497,15592
//
//Configuration Driver 173
//
173 INITIPADDR 192.168.93.5
173 INITIISADDR 192.3.10.1
173 INITIISPORT 80
173 INITBROWSERS 960
173 INITMYWID 15593,15688
//
//Configuration Driver 174
//
174 INITIPADDR 192.168.93.5
174 INITIISADDR 192.3.10.1
174 INITIISPORT 80
174 INITBROWSERS 960
174 INITMYWID 15689,15784
//
//Configuration Driver 175
//
175 INITIPADDR 192.168.93.5
175 INITIISADDR 192.3.10.1
175 INITIISPORT 80
175 INITBROWSERS 960
175 INITMYWID 15785,15880
//
//Configuration Driver 176
//
176 INITIPADDR 192.168.93.5
176 INITIISADDR 192.3.10.1
176 INITIISPORT 80
176 INITBROWSERS 960
176 INITMYWID 15881,15976
//
//Configuration Driver 177
//
177 INITIPADDR 192.168.93.5
177 INITIISADDR 192.3.10.1
177 INITIISPORT 80
177 INITBROWSERS 960
177 INITMYWID 15977,16072
//
//Configuration Driver 178
//
178 INITIPADDR 192.168.93.5
178 INITIISADDR 192.3.10.1
178 INITIISPORT 80
178 INITBROWSERS 960
178 INITMYWID 16073,16168
//
//Configuration Driver 179
//
179 INITIPADDR 192.168.93.5
179 INITIISADDR 192.3.10.1
179 INITIISPORT 80
179 INITBROWSERS 960
179 INITMYWID 16169,16264
//
//Configuration Driver 180
//
180 INITIPADDR 192.168.93.5
180 INITIISADDR 192.3.10.1
180 INITIISPORT 80
180 INITBROWSERS 960
180 INITMYWID 16265,16360
//
//Configuration Driver 181
//
181 INITIPADDR 192.168.93.5
181 INITIISADDR 192.3.10.1
181 INITIISPORT 80
```

```
181 INITBROWSERS 960
181 INITMYWID 16361,16456
//
//Configuration Driver 182
//
182 INITIPADDR 192.168.93.5
182 INITIISADDR 192.3.10.1
182 INITIISPORT 80
182 INITBROWSERS 960
182 INITMYWID 16457,16552
//
//Configuration Driver 183
//
183 INITIPADDR 192.168.93.5
183 INITIISADDR 192.3.10.1
183 INITIISPORT 80
183 INITBROWSERS 960
183 INITMYWID 16553,16648
//
//Configuration Driver 184
//
184 INITIPADDR 192.168.93.5
184 INITIISADDR 192.3.10.1
184 INITIISPORT 80
184 INITBROWSERS 960
184 INITMYWID 16649,16744
//
//Configuration Driver 185
//
185 INITIPADDR 192.168.93.5
185 INITIISADDR 192.3.10.1
185 INITIISPORT 80
185 INITBROWSERS 960
185 INITMYWID 16745,16840
//
//Configuration Driver 186
//
186 INITIPADDR 192.168.93.5
186 INITIISADDR 192.3.10.1
186 INITIISPORT 80
186 INITBROWSERS 960
186 INITMYWID 16841,16936
//
//Configuration Driver 187
//
187 INITIPADDR 192.168.93.5
187 INITIISADDR 192.3.10.1
187 INITIISPORT 80
187 INITBROWSERS 960
187 INITMYWID 16937,17032
//
//Configuration Driver 188
//
188 INITIPADDR 192.168.93.5
188 INITIISADDR 192.3.10.1
188 INITIISPORT 80
188 INITBROWSERS 960
188 INITMYWID 17033,17128
//
//Configuration Driver 189
//
189 INITIPADDR 192.168.93.5
189 INITIISADDR 192.3.10.1
189 INITIISPORT 80
189 INITBROWSERS 960
189 INITMYWID 17129,17224
//
//Configuration Driver 190
//
190 INITIPADDR 192.168.93.5
190 INITIISADDR 192.3.10.1
190 INITIISPORT 80
190 INITBROWSERS 960
190 INITMYWID 17225,17320
//
//Configuration Driver 191
//
191 INITIPADDR 192.168.93.5
191 INITIISADDR 192.3.10.1
191 INITIISPORT 80
191 INITBROWSERS 960
191 INITMYWID 17321,17416
//
//Configuration Driver 192
//
192 INITIPADDR 192.168.93.5
192 INITIISADDR 192.3.10.1
192 INITIISPORT 80
192 INITBROWSERS 960
192 INITMYWID 17417,17512
//
//Configuration Driver 193
//
193 INITIPADDR 192.168.93.5
193 INITIISADDR 192.3.10.1
193 INITIISPORT 80
193 INITBROWSERS 960
193 INITMYWID 17513,17608
//
//Configuration Driver 194
//
194 INITIPADDR 192.168.93.5
194 INITIISADDR 192.3.10.1
194 INITIISPORT 80
194 INITBROWSERS 960
194 INITMYWID 17609,17704
//
//Configuration Driver 195
//
195 INITIPADDR 192.168.93.5
195 INITIISADDR 192.3.10.1
195 INITIISPORT 80
195 INITBROWSERS 960
195 INITMYWID 17705,17800
//
//Configuration Driver 196
```

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//
196 INITIPADDR 192.168.93.5
196 INITIISADDR 192.3.10.1
196 INITIISPORT 80
196 INITBROWSERS 960
196 INITMYWID 17801,17896
//
//Configuration Driver 197
//
197 INITIPADDR 192.168.93.5
197 INITIISADDR 192.3.10.1
197 INITIISPORT 80
197 INITBROWSERS 960
197 INITMYWID 17897,17992
//
//Configuration Driver 198
//
198 INITIPADDR 192.168.93.5
198 INITIISADDR 192.3.10.1
198 INITIISPORT 80
198 INITBROWSERS 960
198 INITMYWID 17993,18088
//
//Configuration Driver 199
//
199 INITIPADDR 192.168.93.5
199 INITIISADDR 192.3.10.1
199 INITIISPORT 80
199 INITBROWSERS 960
199 INITMYWID 18089,18184
//
//Configuration Driver 200
//
200 INITIPADDR 192.168.93.5
200 INITIISADDR 192.3.10.1
200 INITIISPORT 80
200 INITBROWSERS 960
200 INITMYWID 18185,18280
//
//Configuration Driver 201
//
201 INITIPADDR 192.168.93.6
201 INITIISADDR 192.3.10.1
201 INITIISPORT 80
201 INITBROWSERS 960
201 INITMYWID 18281,18376
//
//Configuration Driver 202
//
202 INITIPADDR 192.168.93.6
202 INITIISADDR 192.3.10.1
202 INITIISPORT 80
202 INITBROWSERS 960
202 INITMYWID 18377,18472
//
//Configuration Driver 203
//
203 INITIPADDR 192.168.93.6
203 INITIISADDR 192.3.10.1
203 INITIISPORT 80
203 INITBROWSERS 960
203 INITMYWID 18473,18568
//
//Configuration Driver 204
//
204 INITIPADDR 192.168.93.6
204 INITIISADDR 192.3.10.1
204 INITIISPORT 80
204 INITBROWSERS 960
204 INITMYWID 18569,18664
//
//Configuration Driver 205
//
205 INITIPADDR 192.168.93.6
205 INITIISADDR 192.3.10.1
205 INITIISPORT 80
205 INITBROWSERS 960
205 INITMYWID 18665,18760
//
//Configuration Driver 206
//
206 INITIPADDR 192.168.93.6
206 INITIISADDR 192.3.10.1
206 INITIISPORT 80
206 INITBROWSERS 960
206 INITMYWID 18761,18856
//
//Configuration Driver 207
//
207 INITIPADDR 192.168.93.6
207 INITIISADDR 192.3.10.1
207 INITIISPORT 80
207 INITBROWSERS 960
207 INITMYWID 18857,18952
//
//Configuration Driver 208
//
208 INITIPADDR 192.168.93.6
208 INITIISADDR 192.3.10.1
208 INITIISPORT 80
208 INITBROWSERS 960
208 INITMYWID 18953,19048
//
//Configuration Driver 209
//
209 INITIPADDR 192.168.93.6
209 INITIISADDR 192.3.10.1
209 INITIISPORT 80
209 INITBROWSERS 960
209 INITMYWID 19049,19144
//
//Configuration Driver 210
//
210 INITIPADDR 192.168.93.6
210 INITIISADDR 192.3.10.1
210 INITIISPORT 80
```

```
210 INITBROWSERS 960
210 INITMYWID 19145,19240
//
//Configuration Driver 211
//
211 INITIPADDR 192.168.93.6
211 INITIISADDR 192.3.10.1
211 INITIISPORT 80
211 INITBROWSERS 960
211 INITMYWID 19241,19336
//
//Configuration Driver 212
//
212 INITIPADDR 192.168.93.6
212 INITIISADDR 192.3.10.1
212 INITIISPORT 80
212 INITBROWSERS 960
212 INITMYWID 19337,19432
//
//Configuration Driver 213
//
213 INITIPADDR 192.168.93.6
213 INITIISADDR 192.3.10.1
213 INITIISPORT 80
213 INITBROWSERS 960
213 INITMYWID 19433,19528
//
//Configuration Driver 214
//
214 INITIPADDR 192.168.93.6
214 INITIISADDR 192.3.10.1
214 INITIISPORT 80
214 INITBROWSERS 960
214 INITMYWID 19529,19624
//
//Configuration Driver 215
//
215 INITIPADDR 192.168.93.6
215 INITIISADDR 192.3.10.1
215 INITIISPORT 80
215 INITBROWSERS 960
215 INITMYWID 19625,19720
//
//Configuration Driver 216
//
216 INITIPADDR 192.168.93.6
216 INITIISADDR 192.3.10.1
216 INITIISPORT 80
216 INITBROWSERS 960
216 INITMYWID 19721,19816
//
//Configuration Driver 217
//
217 INITIPADDR 192.168.93.6
217 INITIISADDR 192.3.10.1
217 INITIISPORT 80
217 INITBROWSERS 960
217 INITMYWID 19817,19912
//
//Configuration Driver 218
//
218 INITIPADDR 192.168.93.6
218 INITIISADDR 192.3.10.1
218 INITIISPORT 80
218 INITBROWSERS 960
218 INITMYWID 19913,20008
//
//Configuration Driver 219
//
219 INITIPADDR 192.168.93.6
219 INITIISADDR 192.3.10.1
219 INITIISPORT 80
219 INITBROWSERS 960
219 INITMYWID 20009,20104
//
//Configuration Driver 220
//
220 INITIPADDR 192.168.93.6
220 INITIISADDR 192.3.10.1
220 INITIISPORT 80
220 INITBROWSERS 960
220 INITMYWID 20105,20200
//
//Configuration Driver 221
//
221 INITIPADDR 192.168.93.6
221 INITIISADDR 192.3.10.1
221 INITIISPORT 80
221 INITBROWSERS 960
221 INITMYWID 20201,20296
//
//Configuration Driver 222
//
222 INITIPADDR 192.168.93.6
222 INITIISADDR 192.3.10.1
222 INITIISPORT 80
222 INITBROWSERS 960
222 INITMYWID 20297,20392
//
//Configuration Driver 223
//
223 INITIPADDR 192.168.93.6
223 INITIISADDR 192.3.10.1
223 INITIISPORT 80
223 INITBROWSERS 960
223 INITMYWID 20393,20488
//
//Configuration Driver 224
//
224 INITIPADDR 192.168.93.6
224 INITIISADDR 192.3.10.1
224 INITIISPORT 80
224 INITBROWSERS 960
224 INITMYWID 20489,20584
//
//Configuration Driver 225
```

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//
225 INITIPADDR 192.168.93.6
225 INITIISADDR 192.3.10.1
225 INITIISPORT 80
225 INITBROWSERS 960
225 INITMYWID 20585,20680
//
//Configuration Driver 226
//
226 INITIPADDR 192.168.93.6
226 INITIISADDR 192.3.10.1
226 INITIISPORT 80
226 INITBROWSERS 960
226 INITMYWID 20681,20776
//
//Configuration Driver 227
//
227 INITIPADDR 192.168.93.6
227 INITIISADDR 192.3.10.1
227 INITIISPORT 80
227 INITBROWSERS 960
227 INITMYWID 20777,20872
//
//Configuration Driver 228
//
228 INITIPADDR 192.168.93.6
228 INITIISADDR 192.3.10.1
228 INITIISPORT 80
228 INITBROWSERS 960
228 INITMYWID 20873,20968
//
//Configuration Driver 229
//
229 INITIPADDR 192.168.93.6
229 INITIISADDR 192.3.10.1
229 INITIISPORT 80
229 INITBROWSERS 960
229 INITMYWID 20969,21064
//
//Configuration Driver 230
//
230 INITIPADDR 192.168.93.6
230 INITIISADDR 192.3.10.1
230 INITIISPORT 80
230 INITBROWSERS 960
230 INITMYWID 21065,21160
//
//Configuration Driver 231
//
231 INITIPADDR 192.168.93.6
231 INITIISADDR 192.3.10.1
231 INITIISPORT 80
231 INITBROWSERS 960
231 INITMYWID 21161,21256
//
//Configuration Driver 232
//
232 INITIPADDR 192.168.93.6
232 INITIISADDR 192.3.10.1
232 INITIISPORT 80
232 INITBROWSERS 960
232 INITMYWID 21257,21352
//
//Configuration Driver 233
//
233 INITIPADDR 192.168.93.6
233 INITIISADDR 192.3.10.1
233 INITIISPORT 80
233 INITBROWSERS 960
233 INITMYWID 21353,21448
//
//Configuration Driver 234
//
234 INITIPADDR 192.168.93.6
234 INITIISADDR 192.3.10.1
234 INITIISPORT 80
234 INITBROWSERS 960
234 INITMYWID 21449,21544
//
//Configuration Driver 235
//
235 INITIPADDR 192.168.93.6
235 INITIISADDR 192.3.10.1
235 INITIISPORT 80
235 INITBROWSERS 960
235 INITMYWID 21545,21640
//
//Configuration Driver 236
//
236 INITIPADDR 192.168.93.6
236 INITIISADDR 192.3.10.1
236 INITIISPORT 80
236 INITBROWSERS 960
236 INITMYWID 21641,21736
//
//Configuration Driver 237
//
237 INITIPADDR 192.168.93.6
237 INITIISADDR 192.3.10.1
237 INITIISPORT 80
237 INITBROWSERS 960
237 INITMYWID 21737,21832
//
//Configuration Driver 238
//
238 INITIPADDR 192.168.93.6
238 INITIISADDR 192.3.10.1
238 INITIISPORT 80
238 INITBROWSERS 960
238 INITMYWID 21833,21928
//
//Configuration Driver 239
//
239 INITIPADDR 192.168.93.6
239 INITIISADDR 192.3.10.1
239 INITIISPORT 80
```

```
239 INITBROWSERS 960
239 INITMYWID 21929,22024
//
//Configuration Driver 240
//
240 INITIPADDR 192.168.93.6
240 INITIISADDR 192.3.10.1
240 INITIISPORT 80
240 INITBROWSERS 960
240 INITMYWID 22025,22120
//
//Configuration Driver 241
//
241 INITIPADDR 192.168.93.7
241 INITIISADDR 192.4.10.1
241 INITIISPORT 80
241 INITBROWSERS 950
241 INITMYWID 22121,22215
//
//Configuration Driver 242
//
242 INITIPADDR 192.168.93.7
242 INITIISADDR 192.4.10.1
242 INITIISPORT 80
242 INITBROWSERS 940
242 INITMYWID 22216,22309
//
//Configuration Driver 243
//
243 INITIPADDR 192.168.93.7
243 INITIISADDR 192.4.10.1
243 INITIISPORT 80
243 INITBROWSERS 950
243 INITMYWID 22310,22404
//
//Configuration Driver 244
//
244 INITIPADDR 192.168.93.7
244 INITIISADDR 192.4.10.1
244 INITIISPORT 80
244 INITBROWSERS 940
244 INITMYWID 22405,22498
//
//Configuration Driver 245
//
245 INITIPADDR 192.168.93.7
245 INITIISADDR 192.4.10.1
245 INITIISPORT 80
245 INITBROWSERS 950
245 INITMYWID 22499,22593
//
//Configuration Driver 246
//
246 INITIPADDR 192.168.93.7
246 INITIISADDR 192.4.10.1
246 INITIISPORT 80
246 INITBROWSERS 940
246 INITMYWID 22594,22687
//
//Configuration Driver 247
//
247 INITIPADDR 192.168.93.7
247 INITIISADDR 192.4.10.1
247 INITIISPORT 80
247 INITBROWSERS 950
247 INITMYWID 22688,22782
//
//Configuration Driver 248
//
248 INITIPADDR 192.168.93.7
248 INITIISADDR 192.4.10.1
248 INITIISPORT 80
248 INITBROWSERS 940
248 INITMYWID 22783,22876
//
//Configuration Driver 249
//
249 INITIPADDR 192.168.93.7
249 INITIISADDR 192.4.10.1
249 INITIISPORT 80
249 INITBROWSERS 950
249 INITMYWID 22877,22971
//
//Configuration Driver 250
//
250 INITIPADDR 192.168.93.7
250 INITIISADDR 192.4.10.1
250 INITIISPORT 80
250 INITBROWSERS 940
250 INITMYWID 22972,23065
//
//Configuration Driver 251
//
251 INITIPADDR 192.168.93.7
251 INITIISADDR 192.4.10.1
251 INITIISPORT 80
251 INITBROWSERS 950
251 INITMYWID 23066,23160
//
//Configuration Driver 252
//
252 INITIPADDR 192.168.93.7
252 INITIISADDR 192.4.10.1
252 INITIISPORT 80
252 INITBROWSERS 940
252 INITMYWID 23161,23254
//
//Configuration Driver 253
//
253 INITIPADDR 192.168.93.7
253 INITIISADDR 192.4.10.1
253 INITIISPORT 80
253 INITBROWSERS 950
253 INITMYWID 23255,23349
//
//Configuration Driver 254
```

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//
254 INITIPADDR 192.168.93.7
254 INITIISADDR 192.4.10.1
254 INITIISPORT 80
254 INITBROWSERS 940
254 INITMYWID 23350,23443
//
//Configuration Driver 255
//
255 INITIPADDR 192.168.93.7
255 INITIISADDR 192.4.10.1
255 INITIISPORT 80
255 INITBROWSERS 950
255 INITMYWID 23444,23538
//
//Configuration Driver 256
//
256 INITIPADDR 192.168.93.7
256 INITIISADDR 192.4.10.1
256 INITIISPORT 80
256 INITBROWSERS 940
256 INITMYWID 23539,23632
//
//Configuration Driver 257
//
257 INITIPADDR 192.168.93.7
257 INITIISADDR 192.4.10.1
257 INITIISPORT 80
257 INITBROWSERS 950
257 INITMYWID 23633,23727
//
//Configuration Driver 258
//
258 INITIPADDR 192.168.93.7
258 INITIISADDR 192.4.10.1
258 INITIISPORT 80
258 INITBROWSERS 940
258 INITMYWID 23728,23821
//
//Configuration Driver 259
//
259 INITIPADDR 192.168.93.7
259 INITIISADDR 192.4.10.1
259 INITIISPORT 80
259 INITBROWSERS 950
259 INITMYWID 23822,23916
//
//Configuration Driver 260
//
260 INITIPADDR 192.168.93.7
260 INITIISADDR 192.4.10.1
260 INITIISPORT 80
260 INITBROWSERS 940
260 INITMYWID 23917,24010
//
//Configuration Driver 261
//
261 INITIPADDR 192.168.93.7
261 INITIISADDR 192.4.10.1
261 INITIISPORT 80
261 INITBROWSERS 950
261 INITMYWID 24011,24105
//
//Configuration Driver 262
//
262 INITIPADDR 192.168.93.7
262 INITIISADDR 192.4.10.1
262 INITIISPORT 80
262 INITBROWSERS 940
262 INITMYWID 24106,24199
//
//Configuration Driver 263
//
263 INITIPADDR 192.168.93.7
263 INITIISADDR 192.4.10.1
263 INITIISPORT 80
263 INITBROWSERS 950
263 INITMYWID 24200,24294
//
//Configuration Driver 264
//
264 INITIPADDR 192.168.93.7
264 INITIISADDR 192.4.10.1
264 INITIISPORT 80
264 INITBROWSERS 940
264 INITMYWID 24295,24388
//
//Configuration Driver 265
//
265 INITIPADDR 192.168.93.7
265 INITIISADDR 192.4.10.1
265 INITIISPORT 80
265 INITBROWSERS 950
265 INITMYWID 24389,24483
//
//Configuration Driver 266
//
266 INITIPADDR 192.168.93.7
266 INITIISADDR 192.4.10.1
266 INITIISPORT 80
266 INITBROWSERS 940
266 INITMYWID 24484,24577
//
//Configuration Driver 267
//
267 INITIPADDR 192.168.93.7
267 INITIISADDR 192.4.10.1
267 INITIISPORT 80
267 INITBROWSERS 950
267 INITMYWID 24578,24672
//
//Configuration Driver 268
//
268 INITIPADDR 192.168.93.7
268 INITIISADDR 192.4.10.1
268 INITIISPORT 80
```

```
268 INITBROWSERS 940
268 INITMYWID 24673,24766
//
//Configuration Driver 269
//
269 INITIPADDR 192.168.93.7
269 INITIISADDR 192.4.10.1
269 INITIISPORT 80
269 INITBROWSERS 950
269 INITMYWID 24767,24861
//
//Configuration Driver 270
//
270 INITIPADDR 192.168.93.7
270 INITIISADDR 192.4.10.1
270 INITIISPORT 80
270 INITBROWSERS 940
270 INITMYWID 24862,24955
//
//Configuration Driver 271
//
271 INITIPADDR 192.168.93.7
271 INITIISADDR 192.4.10.1
271 INITIISPORT 80
271 INITBROWSERS 950
271 INITMYWID 24956,25050
//
//Configuration Driver 272
//
272 INITIPADDR 192.168.93.7
272 INITIISADDR 192.4.10.1
272 INITIISPORT 80
272 INITBROWSERS 940
272 INITMYWID 25051,25144
//
//Configuration Driver 273
//
273 INITIPADDR 192.168.93.7
273 INITIISADDR 192.4.10.1
273 INITIISPORT 80
273 INITBROWSERS 950
273 INITMYWID 25145,25239
//
//Configuration Driver 274
//
274 INITIPADDR 192.168.93.7
274 INITIISADDR 192.4.10.1
274 INITIISPORT 80
274 INITBROWSERS 940
274 INITMYWID 25240,25333
//
//Configuration Driver 275
//
275 INITIPADDR 192.168.93.7
275 INITIISADDR 192.4.10.1
275 INITIISPORT 80
275 INITBROWSERS 950
275 INITMYWID 25334,25428
//
//Configuration Driver 276
//
276 INITIPADDR 192.168.93.7
276 INITIISADDR 192.4.10.1
276 INITIISPORT 80
276 INITBROWSERS 940
276 INITMYWID 25429,25522
//
//Configuration Driver 277
//
277 INITIPADDR 192.168.93.7
277 INITIISADDR 192.4.10.1
277 INITIISPORT 80
277 INITBROWSERS 950
277 INITMYWID 25523,25617
//
//Configuration Driver 278
//
278 INITIPADDR 192.168.93.7
278 INITIISADDR 192.4.10.1
278 INITIISPORT 80
278 INITBROWSERS 940
278 INITMYWID 25618,25711
//
//Configuration Driver 279
//
279 INITIPADDR 192.168.93.7
279 INITIISADDR 192.4.10.1
279 INITIISPORT 80
279 INITBROWSERS 950
279 INITMYWID 25712,25806
//
//Configuration Driver 280
//
280 INITIPADDR 192.168.93.7
280 INITIISADDR 192.4.10.1
280 INITIISPORT 80
280 INITBROWSERS 940
280 INITMYWID 25807,25900
//
//Configuration Driver 281
//
281 INITIPADDR 192.168.93.8
281 INITIISADDR 192.4.10.1
281 INITIISPORT 80
281 INITBROWSERS 950
281 INITMYWID 25901,25995
//
//Configuration Driver 282
//
282 INITIPADDR 192.168.93.8
282 INITIISADDR 192.4.10.1
282 INITIISPORT 80
282 INITBROWSERS 940
282 INITMYWID 25996,26089
//
//Configuration Driver 283
```

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//
283 INITIPADDR 192.168.93.8
283 INITIISADDR 192.4.10.1
283 INITIISPORT 80
283 INITBROWSERS 950
283 INITMYWID 26090,26184
//
//Configuration Driver 284
//
284 INITIPADDR 192.168.93.8
284 INITIISADDR 192.4.10.1
284 INITIISPORT 80
284 INITBROWSERS 940
284 INITMYWID 26185,26278
//
//Configuration Driver 285
//
285 INITIPADDR 192.168.93.8
285 INITIISADDR 192.4.10.1
285 INITIISPORT 80
285 INITBROWSERS 950
285 INITMYWID 26279,26373
//
//Configuration Driver 286
//
286 INITIPADDR 192.168.93.8
286 INITIISADDR 192.4.10.1
286 INITIISPORT 80
286 INITBROWSERS 940
286 INITMYWID 26374,26467
//
//Configuration Driver 287
//
287 INITIPADDR 192.168.93.8
287 INITIISADDR 192.4.10.1
287 INITIISPORT 80
287 INITBROWSERS 950
287 INITMYWID 26468,26562
//
//Configuration Driver 288
//
288 INITIPADDR 192.168.93.8
288 INITIISADDR 192.4.10.1
288 INITIISPORT 80
288 INITBROWSERS 940
288 INITMYWID 26563,26656
//
//Configuration Driver 289
//
289 INITIPADDR 192.168.93.8
289 INITIISADDR 192.4.10.1
289 INITIISPORT 80
289 INITBROWSERS 950
289 INITMYWID 26657,26751
//
//Configuration Driver 290
//
290 INITIPADDR 192.168.93.8
290 INITIISADDR 192.4.10.1
290 INITIISPORT 80
290 INITBROWSERS 940
290 INITMYWID 26752,26845
//
//Configuration Driver 291
//
291 INITIPADDR 192.168.93.8
291 INITIISADDR 192.4.10.1
291 INITIISPORT 80
291 INITBROWSERS 950
291 INITMYWID 26846,26940
//
//Configuration Driver 292
//
292 INITIPADDR 192.168.93.8
292 INITIISADDR 192.4.10.1
292 INITIISPORT 80
292 INITBROWSERS 940
292 INITMYWID 26941,27034
//
//Configuration Driver 293
//
293 INITIPADDR 192.168.93.8
293 INITIISADDR 192.4.10.1
293 INITIISPORT 80
293 INITBROWSERS 950
293 INITMYWID 27035,27129
//
//Configuration Driver 294
//
294 INITIPADDR 192.168.93.8
294 INITIISADDR 192.4.10.1
294 INITIISPORT 80
294 INITBROWSERS 940
294 INITMYWID 27130,27223
//
//Configuration Driver 295
//
295 INITIPADDR 192.168.93.8
295 INITIISADDR 192.4.10.1
295 INITIISPORT 80
295 INITBROWSERS 950
295 INITMYWID 27224,27318
//
//Configuration Driver 296
//
296 INITIPADDR 192.168.93.8
296 INITIISADDR 192.4.10.1
296 INITIISPORT 80
296 INITBROWSERS 940
296 INITMYWID 27319,27412
//
//Configuration Driver 297
//
297 INITIPADDR 192.168.93.8
297 INITIISADDR 192.4.10.1
297 INITIISPORT 80
```

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297 INITBROWSERS 950
297 INITMYWID 27413,27507
//
//Configuration Driver 298
//
298 INITIPADDR 192.168.93.8
298 INITIISADDR 192.4.10.1
298 INITIISPORT 80
298 INITBROWSERS 940
298 INITMYWID 27508,27601
//
//Configuration Driver 299
//
299 INITIPADDR 192.168.93.8
299 INITIISADDR 192.4.10.1
299 INITIISPORT 80
299 INITBROWSERS 950
299 INITMYWID 27602,27696
//
//Configuration Driver 300
//
300 INITIPADDR 192.168.93.8
300 INITIISADDR 192.4.10.1
300 INITIISPORT 80
300 INITBROWSERS 940
300 INITMYWID 27697,27790
//
//Configuration Driver 301
//
301 INITIPADDR 192.168.93.8
301 INITIISADDR 192.4.10.1
301 INITIISPORT 80
301 INITBROWSERS 950
301 INITMYWID 27791,27885
//
//Configuration Driver 302
//
302 INITIPADDR 192.168.93.8
302 INITIISADDR 192.4.10.1
302 INITIISPORT 80
302 INITBROWSERS 940
302 INITMYWID 27886,27979
//
//Configuration Driver 303
//
303 INITIPADDR 192.168.93.8
303 INITIISADDR 192.4.10.1
303 INITIISPORT 80
303 INITBROWSERS 950
303 INITMYWID 27980,28074
//
//Configuration Driver 304
//
304 INITIPADDR 192.168.93.8
304 INITIISADDR 192.4.10.1
304 INITIISPORT 80
304 INITBROWSERS 940
304 INITMYWID 28075,28168
//
//Configuration Driver 305
//
305 INITIPADDR 192.168.93.8
305 INITIISADDR 192.4.10.1
305 INITIISPORT 80
305 INITBROWSERS 950
305 INITMYWID 28169,28263
//
//Configuration Driver 306
//
306 INITIPADDR 192.168.93.8
306 INITIISADDR 192.4.10.1
306 INITIISPORT 80
306 INITBROWSERS 940
306 INITMYWID 28264,28357
//
//Configuration Driver 307
//
307 INITIPADDR 192.168.93.8
307 INITIISADDR 192.4.10.1
307 INITIISPORT 80
307 INITBROWSERS 950
307 INITMYWID 28358,28452
//
//Configuration Driver 308
//
308 INITIPADDR 192.168.93.8
308 INITIISADDR 192.4.10.1
308 INITIISPORT 80
308 INITBROWSERS 940
308 INITMYWID 28453,28546
//
//Configuration Driver 309
//
309 INITIPADDR 192.168.93.8
309 INITIISADDR 192.4.10.1
309 INITIISPORT 80
309 INITBROWSERS 950
309 INITMYWID 28547,28641
//
//Configuration Driver 310
//
310 INITIPADDR 192.168.93.8
310 INITIISADDR 192.4.10.1
310 INITIISPORT 80
310 INITBROWSERS 940
310 INITMYWID 28642,28735
//
//Configuration Driver 311
//
311 INITIPADDR 192.168.93.8
311 INITIISADDR 192.4.10.1
311 INITIISPORT 80
311 INITBROWSERS 950
311 INITMYWID 28736,28830
//
//Configuration Driver 312
```

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//
312 INITIPADDR 192.168.93.8
312 INITIISADDR 192.4.10.1
312 INITIISPORT 80
312 INITBROWSERS 940
312 INITMYWID 28831,28924
//
//Configuration Driver 313
//
313 INITIPADDR 192.168.93.8
313 INITIISADDR 192.4.10.1
313 INITIISPORT 80
313 INITBROWSERS 950
313 INITMYWID 28925,29019
//
//Configuration Driver 314
//
314 INITIPADDR 192.168.93.8
314 INITIISADDR 192.4.10.1
314 INITIISPORT 80
314 INITBROWSERS 940
314 INITMYWID 29020,29113
//
//Configuration Driver 315
//
315 INITIPADDR 192.168.93.8
315 INITIISADDR 192.4.10.1
315 INITIISPORT 80
315 INITBROWSERS 950
315 INITMYWID 29114,29208
//
//Configuration Driver 316
//
316 INITIPADDR 192.168.93.8
316 INITIISADDR 192.4.10.1
316 INITIISPORT 80
316 INITBROWSERS 940
316 INITMYWID 29209,29302
//
//Configuration Driver 317
//
317 INITIPADDR 192.168.93.8
317 INITIISADDR 192.4.10.1
317 INITIISPORT 80
317 INITBROWSERS 950
317 INITMYWID 29303,29397
//
//Configuration Driver 318
//
318 INITIPADDR 192.168.93.8
318 INITIISADDR 192.4.10.1
318 INITIISPORT 80
318 INITBROWSERS 940
318 INITMYWID 29398,29491
//
//Configuration Driver 319
//
319 INITIPADDR 192.168.93.8
319 INITIISADDR 192.4.10.1
319 INITIISPORT 80
319 INITBROWSERS 950
319 INITMYWID 29492,29586
//
//Configuration Driver 320
//
320 INITIPADDR 192.168.93.8
320 INITIISADDR 192.4.10.1
320 INITIISPORT 80
320 INITBROWSERS 940
320 INITMYWID 29587,29680
//
//Configuration Driver 321
//
321 INITIPADDR 192.168.93.9
321 INITIISADDR 192.5.10.1
321 INITIISPORT 80
321 INITBROWSERS 940
321 INITMYWID 29681,29774
//
//Configuration Driver 322
//
322 INITIPADDR 192.168.93.9
322 INITIISADDR 192.5.10.1
322 INITIISPORT 80
322 INITBROWSERS 940
322 INITMYWID 29775,29868
//
//Configuration Driver 323
//
323 INITIPADDR 192.168.93.9
323 INITIISADDR 192.5.10.1
323 INITIISPORT 80
323 INITBROWSERS 940
323 INITMYWID 29869,29962
//
//Configuration Driver 324
//
324 INITIPADDR 192.168.93.9
324 INITIISADDR 192.5.10.1
324 INITIISPORT 80
324 INITBROWSERS 940
324 INITMYWID 29963,30056
//
//Configuration Driver 325
//
325 INITIPADDR 192.168.93.9
325 INITIISADDR 192.5.10.1
325 INITIISPORT 80
325 INITBROWSERS 940
325 INITMYWID 30057,30150
//
//Configuration Driver 326
//
326 INITIPADDR 192.168.93.9
326 INITIISADDR 192.5.10.1
326 INITIISPORT 80
```

```
326 INITBROWSERS 940
326 INITMYWID 30151,30244
//
//Configuration Driver 327
//
327 INITIPADDR 192.168.93.9
327 INITIISADDR 192.5.10.1
327 INITIISPORT 80
327 INITBROWSERS 940
327 INITMYWID 30245,30338
//
//Configuration Driver 328
//
328 INITIPADDR 192.168.93.9
328 INITIISADDR 192.5.10.1
328 INITIISPORT 80
328 INITBROWSERS 940
328 INITMYWID 30339,30432
//
//Configuration Driver 329
//
329 INITIPADDR 192.168.93.9
329 INITIISADDR 192.5.10.1
329 INITIISPORT 80
329 INITBROWSERS 940
329 INITMYWID 30433,30526
//
//Configuration Driver 330
//
330 INITIPADDR 192.168.93.9
330 INITIISADDR 192.5.10.1
330 INITIISPORT 80
330 INITBROWSERS 940
330 INITMYWID 30527,30620
//
//Configuration Driver 331
//
331 INITIPADDR 192.168.93.9
331 INITIISADDR 192.5.10.1
331 INITIISPORT 80
331 INITBROWSERS 940
331 INITMYWID 30621,30714
//
//Configuration Driver 332
//
332 INITIPADDR 192.168.93.9
332 INITIISADDR 192.5.10.1
332 INITIISPORT 80
332 INITBROWSERS 940
332 INITMYWID 30715,30808
//
//Configuration Driver 333
//
333 INITIPADDR 192.168.93.9
333 INITIISADDR 192.5.10.1
333 INITIISPORT 80
333 INITBROWSERS 940
333 INITMYWID 30809,30902
//
//Configuration Driver 334
//
334 INITIPADDR 192.168.93.9
334 INITIISADDR 192.5.10.1
334 INITIISPORT 80
334 INITBROWSERS 940
334 INITMYWID 30903,30996
//
//Configuration Driver 335
//
335 INITIPADDR 192.168.93.9
335 INITIISADDR 192.5.10.1
335 INITIISPORT 80
335 INITBROWSERS 940
335 INITMYWID 30997,31090
//
//Configuration Driver 336
//
336 INITIPADDR 192.168.93.9
336 INITIISADDR 192.5.10.1
336 INITIISPORT 80
336 INITBROWSERS 940
336 INITMYWID 31091,31184
//
//Configuration Driver 337
//
337 INITIPADDR 192.168.93.9
337 INITIISADDR 192.5.10.1
337 INITIISPORT 80
337 INITBROWSERS 940
337 INITMYWID 31185,31278
//
//Configuration Driver 338
//
338 INITIPADDR 192.168.93.9
338 INITIISADDR 192.5.10.1
338 INITIISPORT 80
338 INITBROWSERS 940
338 INITMYWID 31279,31372
//
//Configuration Driver 339
//
339 INITIPADDR 192.168.93.9
339 INITIISADDR 192.5.10.1
339 INITIISPORT 80
339 INITBROWSERS 940
339 INITMYWID 31373,31466
//
//Configuration Driver 340
//
340 INITIPADDR 192.168.93.9
340 INITIISADDR 192.5.10.1
340 INITIISPORT 80
340 INITBROWSERS 940
340 INITMYWID 31467,31560
//
//Configuration Driver 341
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//
341 INITIPADDR 192.168.93.9
341 INITIISADDR 192.5.10.1
341 INITIISPORT 80
341 INITBROWSERS 940
341 INITMYWID 31561,31654
//
//Configuration Driver 342
//
342 INITIPADDR 192.168.93.9
342 INITIISADDR 192.5.10.1
342 INITIISPORT 80
342 INITBROWSERS 940
342 INITMYWID 31655,31748
//
//Configuration Driver 343
//
343 INITIPADDR 192.168.93.9
343 INITIISADDR 192.5.10.1
343 INITIISPORT 80
343 INITBROWSERS 940
343 INITMYWID 31749,31842
//
//Configuration Driver 344
//
344 INITIPADDR 192.168.93.9
344 INITIISADDR 192.5.10.1
344 INITIISPORT 80
344 INITBROWSERS 940
344 INITMYWID 31843,31936
//
//Configuration Driver 345
//
345 INITIPADDR 192.168.93.9
345 INITIISADDR 192.5.10.1
345 INITIISPORT 80
345 INITBROWSERS 940
345 INITMYWID 31937,32030
//
//Configuration Driver 346
//
346 INITIPADDR 192.168.93.9
346 INITIISADDR 192.5.10.1
346 INITIISPORT 80
346 INITBROWSERS 940
346 INITMYWID 32031,32124
//
//Configuration Driver 347
//
347 INITIPADDR 192.168.93.9
347 INITIISADDR 192.5.10.1
347 INITIISPORT 80
347 INITBROWSERS 940
347 INITMYWID 32125,32218
//
//Configuration Driver 348
//
348 INITIPADDR 192.168.93.9
348 INITIISADDR 192.5.10.1
348 INITIISPORT 80
348 INITBROWSERS 940
348 INITMYWID 32219,32312
//
//Configuration Driver 349
//
349 INITIPADDR 192.168.93.9
349 INITIISADDR 192.5.10.1
349 INITIISPORT 80
349 INITBROWSERS 940
349 INITMYWID 32313,32406
//
//Configuration Driver 350
//
350 INITIPADDR 192.168.93.9
350 INITIISADDR 192.5.10.1
350 INITIISPORT 80
350 INITBROWSERS 940
350 INITMYWID 32407,32500
//
//Configuration Driver 351
//
351 INITIPADDR 192.168.93.9
351 INITIISADDR 192.5.10.1
351 INITIISPORT 80
351 INITBROWSERS 940
351 INITMYWID 32501,32594
//
//Configuration Driver 352
//
352 INITIPADDR 192.168.93.9
352 INITIISADDR 192.5.10.1
352 INITIISPORT 80
352 INITBROWSERS 940
352 INITMYWID 32595,32688
//
//Configuration Driver 353
//
353 INITIPADDR 192.168.93.9
353 INITIISADDR 192.5.10.1
353 INITIISPORT 80
353 INITBROWSERS 940
353 INITMYWID 32689,32782
//
//Configuration Driver 354
//
354 INITIPADDR 192.168.93.9
354 INITIISADDR 192.5.10.1
354 INITIISPORT 80
354 INITBROWSERS 940
354 INITMYWID 32783,32876
//
//Configuration Driver 355
//
355 INITIPADDR 192.168.93.9
355 INITIISADDR 192.5.10.1
355 INITIISPORT 80
```

```
355 INITBROWSERS 940
355 INITMYWID 32877,32970
//
//Configuration Driver 356
//
356 INITIPADDR 192.168.93.9
356 INITIISADDR 192.5.10.1
356 INITIISPORT 80
356 INITBROWSERS 940
356 INITMYWID 32971,33064
//
//Configuration Driver 357
//
357 INITIPADDR 192.168.93.9
357 INITIISADDR 192.5.10.1
357 INITIISPORT 80
357 INITBROWSERS 940
357 INITMYWID 33065,33158
//
//Configuration Driver 358
//
358 INITIPADDR 192.168.93.9
358 INITIISADDR 192.5.10.1
358 INITIISPORT 80
358 INITBROWSERS 940
358 INITMYWID 33159,33252
//
//Configuration Driver 359
//
359 INITIPADDR 192.168.93.9
359 INITIISADDR 192.5.10.1
359 INITIISPORT 80
359 INITBROWSERS 940
359 INITMYWID 33253,33346
//
//Configuration Driver 360
//
360 INITIPADDR 192.168.93.9
360 INITIISADDR 192.5.10.1
360 INITIISPORT 80
360 INITBROWSERS 940
360 INITMYWID 33347,33440
//
//Configuration Driver 361
//
361 INITIPADDR 192.168.93.10
361 INITIISADDR 192.5.10.1
361 INITIISPORT 80
361 INITBROWSERS 940
361 INITMYWID 33441,33534
//
//Configuration Driver 362
//
362 INITIPADDR 192.168.93.10
362 INITIISADDR 192.5.10.1
362 INITIISPORT 80
362 INITBROWSERS 940
362 INITMYWID 33535,33628
//
//Configuration Driver 363
//
363 INITIPADDR 192.168.93.10
363 INITIISADDR 192.5.10.1
363 INITIISPORT 80
363 INITBROWSERS 940
363 INITMYWID 33629,33722
//
//Configuration Driver 364
//
364 INITIPADDR 192.168.93.10
364 INITIISADDR 192.5.10.1
364 INITIISPORT 80
364 INITBROWSERS 940
364 INITMYWID 33723,33816
//
//Configuration Driver 365
//
365 INITIPADDR 192.168.93.10
365 INITIISADDR 192.5.10.1
365 INITIISPORT 80
365 INITBROWSERS 940
365 INITMYWID 33817,33910
//
//Configuration Driver 366
//
366 INITIPADDR 192.168.93.10
366 INITIISADDR 192.5.10.1
366 INITIISPORT 80
366 INITBROWSERS 940
366 INITMYWID 33911,34004
//
//Configuration Driver 367
//
367 INITIPADDR 192.168.93.10
367 INITIISADDR 192.5.10.1
367 INITIISPORT 80
367 INITBROWSERS 940
367 INITMYWID 34005,34098
//
//Configuration Driver 368
//
368 INITIPADDR 192.168.93.10
368 INITIISADDR 192.5.10.1
368 INITIISPORT 80
368 INITBROWSERS 940
368 INITMYWID 34099,34192
//
//Configuration Driver 369
//
369 INITIPADDR 192.168.93.10
369 INITIISADDR 192.5.10.1
369 INITIISPORT 80
369 INITBROWSERS 940
369 INITMYWID 34193,34286
//
//Configuration Driver 370
```

```
//
370 INITIPADDR 192.168.93.10
370 INITIISADDR 192.5.10.1
370 INITIISPORT 80
370 INITBROWSERS 940
370 INITMYWID 34287,34380
//
//Configuration Driver 371
//
371 INITIPADDR 192.168.93.10
371 INITIISADDR 192.5.10.1
371 INITIISPORT 80
371 INITBROWSERS 940
371 INITMYWID 34381,34474
//
//Configuration Driver 372
//
372 INITIPADDR 192.168.93.10
372 INITIISADDR 192.5.10.1
372 INITIISPORT 80
372 INITBROWSERS 940
372 INITMYWID 34475,34568
//
//Configuration Driver 373
//
373 INITIPADDR 192.168.93.10
373 INITIISADDR 192.5.10.1
373 INITIISPORT 80
373 INITBROWSERS 940
373 INITMYWID 34569,34662
//
//Configuration Driver 374
//
374 INITIPADDR 192.168.93.10
374 INITIISADDR 192.5.10.1
374 INITIISPORT 80
374 INITBROWSERS 940
374 INITMYWID 34663,34756
//
//Configuration Driver 375
//
375 INITIPADDR 192.168.93.10
375 INITIISADDR 192.5.10.1
375 INITIISPORT 80
375 INITBROWSERS 940
375 INITMYWID 34757,34850
//
//Configuration Driver 376
//
376 INITIPADDR 192.168.93.10
376 INITIISADDR 192.5.10.1
376 INITIISPORT 80
376 INITBROWSERS 940
376 INITMYWID 34851,34944
//
//Configuration Driver 377
//
377 INITIPADDR 192.168.93.10
377 INITIISADDR 192.5.10.1
377 INITIISPORT 80
377 INITBROWSERS 940
377 INITMYWID 34945,35038
//
//Configuration Driver 378
//
378 INITIPADDR 192.168.93.10
378 INITIISADDR 192.5.10.1
378 INITIISPORT 80
378 INITBROWSERS 940
378 INITMYWID 35039,35132
//
//Configuration Driver 379
//
379 INITIPADDR 192.168.93.10
379 INITIISADDR 192.5.10.1
379 INITIISPORT 80
379 INITBROWSERS 940
379 INITMYWID 35133,35226
//
//Configuration Driver 380
//
380 INITIPADDR 192.168.93.10
380 INITIISADDR 192.5.10.1
380 INITIISPORT 80
380 INITBROWSERS 940
380 INITMYWID 35227,35320
//
//Configuration Driver 381
//
381 INITIPADDR 192.168.93.10
381 INITIISADDR 192.5.10.1
381 INITIISPORT 80
381 INITBROWSERS 940
381 INITMYWID 35321,35414
//
//Configuration Driver 382
//
382 INITIPADDR 192.168.93.10
382 INITIISADDR 192.5.10.1
382 INITIISPORT 80
382 INITBROWSERS 940
382 INITMYWID 35415,35508
//
//Configuration Driver 383
//
383 INITIPADDR 192.168.93.10
383 INITIISADDR 192.5.10.1
383 INITIISPORT 80
383 INITBROWSERS 940
383 INITMYWID 35509,35602
//
//Configuration Driver 384
//
384 INITIPADDR 192.168.93.10
384 INITIISADDR 192.5.10.1
384 INITIISPORT 80
```

```
384 INITBROWSERS 940
384 INITMYWID 35603,35696
//
//Configuration Driver 385
//
385 INITIPADDR 192.168.93.10
385 INITIISADDR 192.5.10.1
385 INITIISPORT 80
385 INITBROWSERS 940
385 INITMYWID 35697,35790
//
//Configuration Driver 386
//
386 INITIPADDR 192.168.93.10
386 INITIISADDR 192.5.10.1
386 INITIISPORT 80
386 INITBROWSERS 940
386 INITMYWID 35791,35884
//
//Configuration Driver 387
//
387 INITIPADDR 192.168.93.10
387 INITIISADDR 192.5.10.1
387 INITIISPORT 80
387 INITBROWSERS 940
387 INITMYWID 35885,35978
//
//Configuration Driver 388
//
388 INITIPADDR 192.168.93.10
388 INITIISADDR 192.5.10.1
388 INITIISPORT 80
388 INITBROWSERS 940
388 INITMYWID 35979,36072
//
//Configuration Driver 389
//
389 INITIPADDR 192.168.93.10
389 INITIISADDR 192.5.10.1
389 INITIISPORT 80
389 INITBROWSERS 940
389 INITMYWID 36073,36166
//
//Configuration Driver 390
//
390 INITIPADDR 192.168.93.10
390 INITIISADDR 192.5.10.1
390 INITIISPORT 80
390 INITBROWSERS 940
390 INITMYWID 36167,36260
//
//Configuration Driver 391
//
391 INITIPADDR 192.168.93.10
391 INITIISADDR 192.5.10.1
391 INITIISPORT 80
391 INITBROWSERS 940
391 INITMYWID 36261,36354
//
//Configuration Driver 392
//
392 INITIPADDR 192.168.93.10
392 INITIISADDR 192.5.10.1
392 INITIISPORT 80
392 INITBROWSERS 940
392 INITMYWID 36355,36448
//
//Configuration Driver 393
//
393 INITIPADDR 192.168.93.10
393 INITIISADDR 192.5.10.1
393 INITIISPORT 80
393 INITBROWSERS 940
393 INITMYWID 36449,36542
//
//Configuration Driver 394
//
394 INITIPADDR 192.168.93.10
394 INITIISADDR 192.5.10.1
394 INITIISPORT 80
394 INITBROWSERS 940
394 INITMYWID 36543,36636
//
//Configuration Driver 395
//
395 INITIPADDR 192.168.93.10
395 INITIISADDR 192.5.10.1
395 INITIISPORT 80
395 INITBROWSERS 940
395 INITMYWID 36637,36730
//
//Configuration Driver 396
//
396 INITIPADDR 192.168.93.10
396 INITIISADDR 192.5.10.1
396 INITIISPORT 80
396 INITBROWSERS 940
396 INITMYWID 36731,36824
//
//Configuration Driver 397
//
397 INITIPADDR 192.168.93.10
397 INITIISADDR 192.5.10.1
397 INITIISPORT 80
397 INITBROWSERS 940
397 INITMYWID 36825,36918
//
//Configuration Driver 398
//
398 INITIPADDR 192.168.93.10
398 INITIISADDR 192.5.10.1
398 INITIISPORT 80
398 INITBROWSERS 940
398 INITMYWID 36919,37012
//
//Configuration Driver 399
```

```
//
399 INITIPADDR 192.168.93.10
399 INITIISADDR 192.5.10.1
399 INITIISPORT 80
399 INITBROWSERS 940
399 INITMYWID 37013,37106
//
//Configuration Driver 400
//
400 INITIPADDR 192.168.93.10
400 INITIISADDR 192.5.10.1
400 INITIISPORT 80
400 INITBROWSERS 940
400 INITMYWID 37107,37200
//
//Configuration Driver 401
//
401 INITIPADDR 192.168.93.11
401 INITIISADDR 192.6.10.1
401 INITIISPORT 80
401 INITBROWSERS 960
401 INITMYWID 37201,37296
//
//Configuration Driver 402
//
402 INITIPADDR 192.168.93.11
402 INITIISADDR 192.6.10.1
402 INITIISPORT 80
402 INITBROWSERS 960
402 INITMYWID 37297,37392
//
//Configuration Driver 403
//
403 INITIPADDR 192.168.93.11
403 INITIISADDR 192.6.10.1
403 INITIISPORT 80
403 INITBROWSERS 960
403 INITMYWID 37393,37488
//
//Configuration Driver 404
//
404 INITIPADDR 192.168.93.11
404 INITIISADDR 192.6.10.1
404 INITIISPORT 80
404 INITBROWSERS 960
404 INITMYWID 37489,37584
//
//Configuration Driver 405
//
405 INITIPADDR 192.168.93.11
405 INITIISADDR 192.6.10.1
405 INITIISPORT 80
405 INITBROWSERS 960
405 INITMYWID 37585,37680
//
//Configuration Driver 406
//
406 INITIPADDR 192.168.93.11
406 INITIISADDR 192.6.10.1
406 INITIISPORT 80
406 INITBROWSERS 960
406 INITMYWID 37681,37776
//
//Configuration Driver 407
//
407 INITIPADDR 192.168.93.11
407 INITIISADDR 192.6.10.1
407 INITIISPORT 80
407 INITBROWSERS 960
407 INITMYWID 37777,37872
//
//Configuration Driver 408
//
408 INITIPADDR 192.168.93.11
408 INITIISADDR 192.6.10.1
408 INITIISPORT 80
408 INITBROWSERS 960
408 INITMYWID 37873,37968
//
//Configuration Driver 409
//
409 INITIPADDR 192.168.93.11
409 INITIISADDR 192.6.10.1
409 INITIISPORT 80
409 INITBROWSERS 960
409 INITMYWID 37969,38064
//
//Configuration Driver 410
//
410 INITIPADDR 192.168.93.11
410 INITIISADDR 192.6.10.1
410 INITIISPORT 80
410 INITBROWSERS 960
410 INITMYWID 38065,38160
//
//Configuration Driver 411
//
411 INITIPADDR 192.168.93.11
411 INITIISADDR 192.6.10.1
411 INITIISPORT 80
411 INITBROWSERS 960
411 INITMYWID 38161,38256
//
//Configuration Driver 412
//
412 INITIPADDR 192.168.93.11
412 INITIISADDR 192.6.10.1
412 INITIISPORT 80
412 INITBROWSERS 960
412 INITMYWID 38257,38352
//
//Configuration Driver 413
//
413 INITIPADDR 192.168.93.11
413 INITIISADDR 192.6.10.1
413 INITIISPORT 80
```

```
413 INITBROWSERS 960
413 INITMYWID 38353,38448
//
//Configuration Driver 414
//
414 INITIPADDR 192.168.93.11
414 INITIISADDR 192.6.10.1
414 INITIISPORT 80
414 INITBROWSERS 960
414 INITMYWID 38449,38544
//
//Configuration Driver 415
//
415 INITIPADDR 192.168.93.11
415 INITIISADDR 192.6.10.1
415 INITIISPORT 80
415 INITBROWSERS 960
415 INITMYWID 38545,38640
//
//Configuration Driver 416
//
416 INITIPADDR 192.168.93.11
416 INITIISADDR 192.6.10.1
416 INITIISPORT 80
416 INITBROWSERS 960
416 INITMYWID 38641,38736
//
//Configuration Driver 417
//
417 INITIPADDR 192.168.93.11
417 INITIISADDR 192.6.10.1
417 INITIISPORT 80
417 INITBROWSERS 960
417 INITMYWID 38737,38832
//
//Configuration Driver 418
//
418 INITIPADDR 192.168.93.11
418 INITIISADDR 192.6.10.1
418 INITIISPORT 80
418 INITBROWSERS 960
418 INITMYWID 38833,38928
//
//Configuration Driver 419
//
419 INITIPADDR 192.168.93.11
419 INITIISADDR 192.6.10.1
419 INITIISPORT 80
419 INITBROWSERS 960
419 INITMYWID 38929,39024
//
//Configuration Driver 420
//
420 INITIPADDR 192.168.93.11
420 INITIISADDR 192.6.10.1
420 INITIISPORT 80
420 INITBROWSERS 960
420 INITMYWID 39025,39120
//
//Configuration Driver 421
//
421 INITIPADDR 192.168.93.11
421 INITIISADDR 192.6.10.1
421 INITIISPORT 80
421 INITBROWSERS 960
421 INITMYWID 39121,39216
//
//Configuration Driver 422
//
422 INITIPADDR 192.168.93.11
422 INITIISADDR 192.6.10.1
422 INITIISPORT 80
422 INITBROWSERS 960
422 INITMYWID 39217,39312
//
//Configuration Driver 423
//
423 INITIPADDR 192.168.93.11
423 INITIISADDR 192.6.10.1
423 INITIISPORT 80
423 INITBROWSERS 960
423 INITMYWID 39313,39408
//
//Configuration Driver 424
//
424 INITIPADDR 192.168.93.11
424 INITIISADDR 192.6.10.1
424 INITIISPORT 80
424 INITBROWSERS 960
424 INITMYWID 39409,39504
//
//Configuration Driver 425
//
425 INITIPADDR 192.168.93.11
425 INITIISADDR 192.6.10.1
425 INITIISPORT 80
425 INITBROWSERS 960
425 INITMYWID 39505,39600
//
//Configuration Driver 426
//
426 INITIPADDR 192.168.93.11
426 INITIISADDR 192.6.10.1
426 INITIISPORT 80
426 INITBROWSERS 960
426 INITMYWID 39601,39696
//
//Configuration Driver 427
//
427 INITIPADDR 192.168.93.11
427 INITIISADDR 192.6.10.1
427 INITIISPORT 80
427 INITBROWSERS 960
427 INITMYWID 39697,39792
//
//Configuration Driver 428
```

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//
428 INITIPADDR 192.168.93.11
428 INITIISADDR 192.6.10.1
428 INITIISPORT 80
428 INITBROWSERS 960
428 INITMYWID 39793,39888
//
//Configuration Driver 429
//
429 INITIPADDR 192.168.93.11
429 INITIISADDR 192.6.10.1
429 INITIISPORT 80
429 INITBROWSERS 960
429 INITMYWID 39889,39984
//
//Configuration Driver 430
//
430 INITIPADDR 192.168.93.11
430 INITIISADDR 192.6.10.1
430 INITIISPORT 80
430 INITBROWSERS 960
430 INITMYWID 39985,40080
//
//Configuration Driver 431
//
431 INITIPADDR 192.168.93.11
431 INITIISADDR 192.6.10.1
431 INITIISPORT 80
431 INITBROWSERS 960
431 INITMYWID 40081,40176
//
//Configuration Driver 432
//
432 INITIPADDR 192.168.93.11
432 INITIISADDR 192.6.10.1
432 INITIISPORT 80
432 INITBROWSERS 960
432 INITMYWID 40177,40272
//
//Configuration Driver 433
//
433 INITIPADDR 192.168.93.11
433 INITIISADDR 192.6.10.1
433 INITIISPORT 80
433 INITBROWSERS 960
433 INITMYWID 40273,40368
//
//Configuration Driver 434
//
434 INITIPADDR 192.168.93.11
434 INITIISADDR 192.6.10.1
434 INITIISPORT 80
434 INITBROWSERS 960
434 INITMYWID 40369,40464
//
//Configuration Driver 435
//
435 INITIPADDR 192.168.93.11
435 INITIISADDR 192.6.10.1
435 INITIISPORT 80
435 INITBROWSERS 960
435 INITMYWID 40465,40560
//
//Configuration Driver 436
//
436 INITIPADDR 192.168.93.11
436 INITIISADDR 192.6.10.1
436 INITIISPORT 80
436 INITBROWSERS 960
436 INITMYWID 40561,40656
//
//Configuration Driver 437
//
437 INITIPADDR 192.168.93.11
437 INITIISADDR 192.6.10.1
437 INITIISPORT 80
437 INITBROWSERS 960
437 INITMYWID 40657,40752
//
//Configuration Driver 438
//
438 INITIPADDR 192.168.93.11
438 INITIISADDR 192.6.10.1
438 INITIISPORT 80
438 INITBROWSERS 960
438 INITMYWID 40753,40848
//
//Configuration Driver 439
//
439 INITIPADDR 192.168.93.11
439 INITIISADDR 192.6.10.1
439 INITIISPORT 80
439 INITBROWSERS 960
439 INITMYWID 40849,40944
//
//Configuration Driver 440
//
440 INITIPADDR 192.168.93.11
440 INITIISADDR 192.6.10.1
440 INITIISPORT 80
440 INITBROWSERS 960
440 INITMYWID 40945,41040
//
//Configuration Driver 441
//
441 INITIPADDR 192.168.93.12
441 INITIISADDR 192.6.10.1
441 INITIISPORT 80
441 INITBROWSERS 960
441 INITMYWID 41041,41136
//
//Configuration Driver 442
//
442 INITIPADDR 192.168.93.12
442 INITIISADDR 192.6.10.1
442 INITIISPORT 80
```

```
442 INITBROWSERS 960
442 INITMYWID 41137,41232
//
//Configuration Driver 443
//
443 INITIPADDR 192.168.93.12
443 INITIISADDR 192.6.10.1
443 INITIISPORT 80
443 INITBROWSERS 960
443 INITMYWID 41233,41328
//
//Configuration Driver 444
//
444 INITIPADDR 192.168.93.12
444 INITIISADDR 192.6.10.1
444 INITIISPORT 80
444 INITBROWSERS 960
444 INITMYWID 41329,41424
//
//Configuration Driver 445
//
445 INITIPADDR 192.168.93.12
445 INITIISADDR 192.6.10.1
445 INITIISPORT 80
445 INITBROWSERS 960
445 INITMYWID 41425,41520
//
//Configuration Driver 446
//
446 INITIPADDR 192.168.93.12
446 INITIISADDR 192.6.10.1
446 INITIISPORT 80
446 INITBROWSERS 960
446 INITMYWID 41521,41616
//
//Configuration Driver 447
//
447 INITIPADDR 192.168.93.12
447 INITIISADDR 192.6.10.1
447 INITIISPORT 80
447 INITBROWSERS 960
447 INITMYWID 41617,41712
//
//Configuration Driver 448
//
448 INITIPADDR 192.168.93.12
448 INITIISADDR 192.6.10.1
448 INITIISPORT 80
448 INITBROWSERS 960
448 INITMYWID 41713,41808
//
//Configuration Driver 449
//
449 INITIPADDR 192.168.93.12
449 INITIISADDR 192.6.10.1
449 INITIISPORT 80
449 INITBROWSERS 960
449 INITMYWID 41809,41904
//
//Configuration Driver 450
//
450 INITIPADDR 192.168.93.12
450 INITIISADDR 192.6.10.1
450 INITIISPORT 80
450 INITBROWSERS 960
450 INITMYWID 41905,42000
//
//Configuration Driver 451
//
451 INITIPADDR 192.168.93.12
451 INITIISADDR 192.6.10.1
451 INITIISPORT 80
451 INITBROWSERS 960
451 INITMYWID 42001,42096
//
//Configuration Driver 452
//
452 INITIPADDR 192.168.93.12
452 INITIISADDR 192.6.10.1
452 INITIISPORT 80
452 INITBROWSERS 960
452 INITMYWID 42097,42192
//
//Configuration Driver 453
//
453 INITIPADDR 192.168.93.12
453 INITIISADDR 192.6.10.1
453 INITIISPORT 80
453 INITBROWSERS 960
453 INITMYWID 42193,42288
//
//Configuration Driver 454
//
454 INITIPADDR 192.168.93.12
454 INITIISADDR 192.6.10.1
454 INITIISPORT 80
454 INITBROWSERS 960
454 INITMYWID 42289,42384
//
//Configuration Driver 455
//
455 INITIPADDR 192.168.93.12
455 INITIISADDR 192.6.10.1
455 INITIISPORT 80
455 INITBROWSERS 960
455 INITMYWID 42385,42480
//
//Configuration Driver 456
//
456 INITIPADDR 192.168.93.12
456 INITIISADDR 192.6.10.1
456 INITIISPORT 80
456 INITBROWSERS 960
456 INITMYWID 42481,42576
//
//Configuration Driver 457
```

```
//
457 INITIPADDR 192.168.93.12
457 INITIISADDR 192.6.10.1
457 INITIISPORT 80
457 INITBROWSERS 960
457 INITMYWID 42577,42672
//
//Configuration Driver 458
//
458 INITIPADDR 192.168.93.12
458 INITIISADDR 192.6.10.1
458 INITIISPORT 80
458 INITBROWSERS 960
458 INITMYWID 42673,42768
//
//Configuration Driver 459
//
459 INITIPADDR 192.168.93.12
459 INITIISADDR 192.6.10.1
459 INITIISPORT 80
459 INITBROWSERS 960
459 INITMYWID 42769,42864
//
//Configuration Driver 460
//
460 INITIPADDR 192.168.93.12
460 INITIISADDR 192.6.10.1
460 INITIISPORT 80
460 INITBROWSERS 960
460 INITMYWID 42865,42960
//
//Configuration Driver 461
//
461 INITIPADDR 192.168.93.12
461 INITIISADDR 192.6.10.1
461 INITIISPORT 80
461 INITBROWSERS 960
461 INITMYWID 42961,43056
//
//Configuration Driver 462
//
462 INITIPADDR 192.168.93.12
462 INITIISADDR 192.6.10.1
462 INITIISPORT 80
462 INITBROWSERS 960
462 INITMYWID 43057,43152
//
//Configuration Driver 463
//
463 INITIPADDR 192.168.93.12
463 INITIISADDR 192.6.10.1
463 INITIISPORT 80
463 INITBROWSERS 960
463 INITMYWID 43153,43248
//
//Configuration Driver 464
//
464 INITIPADDR 192.168.93.12
464 INITIISADDR 192.6.10.1
464 INITIISPORT 80
464 INITBROWSERS 960
464 INITMYWID 43249,43344
//
//Configuration Driver 465
//
465 INITIPADDR 192.168.93.12
465 INITIISADDR 192.6.10.1
465 INITIISPORT 80
465 INITBROWSERS 960
465 INITMYWID 43345,43440
//
//Configuration Driver 466
//
466 INITIPADDR 192.168.93.12
466 INITIISADDR 192.6.10.1
466 INITIISPORT 80
466 INITBROWSERS 960
466 INITMYWID 43441,43536
//
//Configuration Driver 467
//
467 INITIPADDR 192.168.93.12
467 INITIISADDR 192.6.10.1
467 INITIISPORT 80
467 INITBROWSERS 960
467 INITMYWID 43537,43632
//
//Configuration Driver 468
//
468 INITIPADDR 192.168.93.12
468 INITIISADDR 192.6.10.1
468 INITIISPORT 80
468 INITBROWSERS 960
468 INITMYWID 43633,43728
//
//Configuration Driver 469
//
469 INITIPADDR 192.168.93.12
469 INITIISADDR 192.6.10.1
469 INITIISPORT 80
469 INITBROWSERS 960
469 INITMYWID 43729,43824
//
//Configuration Driver 470
//
470 INITIPADDR 192.168.93.12
470 INITIISADDR 192.6.10.1
470 INITIISPORT 80
470 INITBROWSERS 960
470 INITMYWID 43825,43920
//
//Configuration Driver 471
//
471 INITIPADDR 192.168.93.12
471 INITIISADDR 192.6.10.1
471 INITIISPORT 80
```

```
471 INITBROWSERS 960
471 INITMYWID 43921,44016
//
//Configuration Driver 472
//
472 INITIPADDR 192.168.93.12
472 INITIISADDR 192.6.10.1
472 INITIISPORT 80
472 INITBROWSERS 960
472 INITMYWID 44017,44112
//
//Configuration Driver 473
//
473 INITIPADDR 192.168.93.12
473 INITIISADDR 192.6.10.1
473 INITIISPORT 80
473 INITBROWSERS 960
473 INITMYWID 44113,44208
//
//Configuration Driver 474
//
474 INITIPADDR 192.168.93.12
474 INITIISADDR 192.6.10.1
474 INITIISPORT 80
474 INITBROWSERS 960
474 INITMYWID 44209,44304
//
//Configuration Driver 475
//
475 INITIPADDR 192.168.93.12
475 INITIISADDR 192.6.10.1
475 INITIISPORT 80
475 INITBROWSERS 960
475 INITMYWID 44305,44400
//
//Configuration Driver 476
//
476 INITIPADDR 192.168.93.12
476 INITIISADDR 192.6.10.1
476 INITIISPORT 80
476 INITBROWSERS 960
476 INITMYWID 44401,44496
//
//Configuration Driver 477
//
477 INITIPADDR 192.168.93.12
477 INITIISADDR 192.6.10.1
477 INITIISPORT 80
477 INITBROWSERS 960
477 INITMYWID 44497,44592
//
//Configuration Driver 478
//
478 INITIPADDR 192.168.93.12
478 INITIISADDR 192.6.10.1
478 INITIISPORT 80
478 INITBROWSERS 960
478 INITMYWID 44593,44688
//
//Configuration Driver 479
//
479 INITIPADDR 192.168.93.12
479 INITIISADDR 192.6.10.1
479 INITIISPORT 80
479 INITBROWSERS 960
479 INITMYWID 44689,44784
//
//Configuration Driver 480
//
480 INITIPADDR 192.168.93.12
480 INITIISADDR 192.6.10.1
480 INITIISPORT 80
480 INITBROWSERS 960
480 INITMYWID 44785,44880
//
//Configuration Driver 481
//
481 INITIPADDR 192.168.93.13
481 INITIISADDR 192.7.10.1
481 INITIISPORT 80
481 INITBROWSERS 950
481 INITMYWID 44881,44975
//
//Configuration Driver 482
//
482 INITIPADDR 192.168.93.13
482 INITIISADDR 192.7.10.1
482 INITIISPORT 80
482 INITBROWSERS 940
482 INITMYWID 44976,45069
//
//Configuration Driver 483
//
483 INITIPADDR 192.168.93.13
483 INITIISADDR 192.7.10.1
483 INITIISPORT 80
483 INITBROWSERS 950
483 INITMYWID 45070,45164
//
//Configuration Driver 484
//
484 INITIPADDR 192.168.93.13
484 INITIISADDR 192.7.10.1
484 INITIISPORT 80
484 INITBROWSERS 940
484 INITMYWID 45165,45258
//
//Configuration Driver 485
//
485 INITIPADDR 192.168.93.13
485 INITIISADDR 192.7.10.1
485 INITIISPORT 80
485 INITBROWSERS 950
485 INITMYWID 45259,45353
//
//Configuration Driver 486
```

```
//
486 INITIPADDR 192.168.93.13
486 INITIISADDR 192.7.10.1
486 INITIISPORT 80
486 INITBROWSERS 940
486 INITMYWID 45354,45447
//
//Configuration Driver 487
//
487 INITIPADDR 192.168.93.13
487 INITIISADDR 192.7.10.1
487 INITIISPORT 80
487 INITBROWSERS 950
487 INITMYWID 45448,45542
//
//Configuration Driver 488
//
488 INITIPADDR 192.168.93.13
488 INITIISADDR 192.7.10.1
488 INITIISPORT 80
488 INITBROWSERS 940
488 INITMYWID 45543,45636
//
//Configuration Driver 489
//
489 INITIPADDR 192.168.93.13
489 INITIISADDR 192.7.10.1
489 INITIISPORT 80
489 INITBROWSERS 950
489 INITMYWID 45637,45731
//
//Configuration Driver 490
//
490 INITIPADDR 192.168.93.13
490 INITIISADDR 192.7.10.1
490 INITIISPORT 80
490 INITBROWSERS 940
490 INITMYWID 45732,45825
//
//Configuration Driver 491
//
491 INITIPADDR 192.168.93.13
491 INITIISADDR 192.7.10.1
491 INITIISPORT 80
491 INITBROWSERS 950
491 INITMYWID 45826,45920
//
//Configuration Driver 492
//
492 INITIPADDR 192.168.93.13
492 INITIISADDR 192.7.10.1
492 INITIISPORT 80
492 INITBROWSERS 940
492 INITMYWID 45921,46014
//
//Configuration Driver 493
//
493 INITIPADDR 192.168.93.13
493 INITIISADDR 192.7.10.1
493 INITIISPORT 80
493 INITBROWSERS 950
493 INITMYWID 46015,46109
//
//Configuration Driver 494
//
494 INITIPADDR 192.168.93.13
494 INITIISADDR 192.7.10.1
494 INITIISPORT 80
494 INITBROWSERS 940
494 INITMYWID 46110,46203
//
//Configuration Driver 495
//
495 INITIPADDR 192.168.93.13
495 INITIISADDR 192.7.10.1
495 INITIISPORT 80
495 INITBROWSERS 950
495 INITMYWID 46204,46298
//
//Configuration Driver 496
//
496 INITIPADDR 192.168.93.13
496 INITIISADDR 192.7.10.1
496 INITIISPORT 80
496 INITBROWSERS 940
496 INITMYWID 46299,46392
//
//Configuration Driver 497
//
497 INITIPADDR 192.168.93.13
497 INITIISADDR 192.7.10.1
497 INITIISPORT 80
497 INITBROWSERS 950
497 INITMYWID 46393,46487
//
//Configuration Driver 498
//
498 INITIPADDR 192.168.93.13
498 INITIISADDR 192.7.10.1
498 INITIISPORT 80
498 INITBROWSERS 940
498 INITMYWID 46488,46581
//
//Configuration Driver 499
//
499 INITIPADDR 192.168.93.13
499 INITIISADDR 192.7.10.1
499 INITIISPORT 80
499 INITBROWSERS 950
499 INITMYWID 46582,46676
//
//Configuration Driver 500
//
500 INITIPADDR 192.168.93.13
500 INITIISADDR 192.7.10.1
500 INITIISPORT 80
```

```
500 INITBROWSERS 940
500 INITMYWID 46677,46770
//
//Configuration Driver 501
//
501 INITIPADDR 192.168.93.13
501 INITIISADDR 192.7.10.1
501 INITIISPORT 80
501 INITBROWSERS 950
501 INITMYWID 46771,46865
//
//Configuration Driver 502
//
502 INITIPADDR 192.168.93.13
502 INITIISADDR 192.7.10.1
502 INITIISPORT 80
502 INITBROWSERS 940
502 INITMYWID 46866,46959
//
//Configuration Driver 503
//
503 INITIPADDR 192.168.93.13
503 INITIISADDR 192.7.10.1
503 INITIISPORT 80
503 INITBROWSERS 950
503 INITMYWID 46960,47054
//
//Configuration Driver 504
//
504 INITIPADDR 192.168.93.13
504 INITIISADDR 192.7.10.1
504 INITIISPORT 80
504 INITBROWSERS 940
504 INITMYWID 47055,47148
//
//Configuration Driver 505
//
505 INITIPADDR 192.168.93.13
505 INITIISADDR 192.7.10.1
505 INITIISPORT 80
505 INITBROWSERS 950
505 INITMYWID 47149,47243
//
//Configuration Driver 506
//
506 INITIPADDR 192.168.93.13
506 INITIISADDR 192.7.10.1
506 INITIISPORT 80
506 INITBROWSERS 940
506 INITMYWID 47244,47337
//
//Configuration Driver 507
//
507 INITIPADDR 192.168.93.13
507 INITIISADDR 192.7.10.1
507 INITIISPORT 80
507 INITBROWSERS 950
507 INITMYWID 47338,47432
//
//Configuration Driver 508
//
508 INITIPADDR 192.168.93.13
508 INITIISADDR 192.7.10.1
508 INITIISPORT 80
508 INITBROWSERS 940
508 INITMYWID 47433,47526
//
//Configuration Driver 509
//
509 INITIPADDR 192.168.93.13
509 INITIISADDR 192.7.10.1
509 INITIISPORT 80
509 INITBROWSERS 950
509 INITMYWID 47527,47621
//
//Configuration Driver 510
//
510 INITIPADDR 192.168.93.13
510 INITIISADDR 192.7.10.1
510 INITIISPORT 80
510 INITBROWSERS 940
510 INITMYWID 47622,47715
//
//Configuration Driver 511
//
511 INITIPADDR 192.168.93.13
511 INITIISADDR 192.7.10.1
511 INITIISPORT 80
511 INITBROWSERS 950
511 INITMYWID 47716,47810
//
//Configuration Driver 512
//
512 INITIPADDR 192.168.93.13
512 INITIISADDR 192.7.10.1
512 INITIISPORT 80
512 INITBROWSERS 940
512 INITMYWID 47811,47904
//
//Configuration Driver 513
//
513 INITIPADDR 192.168.93.13
513 INITIISADDR 192.7.10.1
513 INITIISPORT 80
513 INITBROWSERS 950
513 INITMYWID 47905,47999
//
//Configuration Driver 514
//
514 INITIPADDR 192.168.93.13
514 INITIISADDR 192.7.10.1
514 INITIISPORT 80
514 INITBROWSERS 940
514 INITMYWID 48000,48093
//
//Configuration Driver 515
```

```
//
515 INITIPADDR 192.168.93.13
515 INITIISADDR 192.7.10.1
515 INITIISPORT 80
515 INITBROWSERS 950
515 INITMYWID 48094,48188
//
//Configuration Driver 516
//
516 INITIPADDR 192.168.93.13
516 INITIISADDR 192.7.10.1
516 INITIISPORT 80
516 INITBROWSERS 940
516 INITMYWID 48189,48282
//
//Configuration Driver 517
//
517 INITIPADDR 192.168.93.13
517 INITIISADDR 192.7.10.1
517 INITIISPORT 80
517 INITBROWSERS 950
517 INITMYWID 48283,48377
//
//Configuration Driver 518
//
518 INITIPADDR 192.168.93.13
518 INITIISADDR 192.7.10.1
518 INITIISPORT 80
518 INITBROWSERS 940
518 INITMYWID 48378,48471
//
//Configuration Driver 519
//
519 INITIPADDR 192.168.93.13
519 INITIISADDR 192.7.10.1
519 INITIISPORT 80
519 INITBROWSERS 950
519 INITMYWID 48472,48566
//
//Configuration Driver 520
//
520 INITIPADDR 192.168.93.13
520 INITIISADDR 192.7.10.1
520 INITIISPORT 80
520 INITBROWSERS 940
520 INITMYWID 48567,48660
//
//Configuration Driver 521
//
521 INITIPADDR 192.168.93.14
521 INITIISADDR 192.7.10.1
521 INITIISPORT 80
521 INITBROWSERS 950
521 INITMYWID 48661,48755
//
//Configuration Driver 522
//
522 INITIPADDR 192.168.93.14
522 INITIISADDR 192.7.10.1
522 INITIISPORT 80
522 INITBROWSERS 940
522 INITMYWID 48756,48849
//
//Configuration Driver 523
//
523 INITIPADDR 192.168.93.14
523 INITIISADDR 192.7.10.1
523 INITIISPORT 80
523 INITBROWSERS 950
523 INITMYWID 48850,48944
//
//Configuration Driver 524
//
524 INITIPADDR 192.168.93.14
524 INITIISADDR 192.7.10.1
524 INITIISPORT 80
524 INITBROWSERS 940
524 INITMYWID 48945,49038
//
//Configuration Driver 525
//
525 INITIPADDR 192.168.93.14
525 INITIISADDR 192.7.10.1
525 INITIISPORT 80
525 INITBROWSERS 950
525 INITMYWID 49039,49133
//
//Configuration Driver 526
//
526 INITIPADDR 192.168.93.14
526 INITIISADDR 192.7.10.1
526 INITIISPORT 80
526 INITBROWSERS 940
526 INITMYWID 49134,49227
//
//Configuration Driver 527
//
527 INITIPADDR 192.168.93.14
527 INITIISADDR 192.7.10.1
527 INITIISPORT 80
527 INITBROWSERS 950
527 INITMYWID 49228,49322
//
//Configuration Driver 528
//
528 INITIPADDR 192.168.93.14
528 INITIISADDR 192.7.10.1
528 INITIISPORT 80
528 INITBROWSERS 940
528 INITMYWID 49323,49416
//
//Configuration Driver 529
//
529 INITIPADDR 192.168.93.14
529 INITIISADDR 192.7.10.1
529 INITIISPORT 80
```

```
529 INITBROWSERS 950
529 INITMYWID 49417,49511
//
//Configuration Driver 530
//
530 INITIPADDR 192.168.93.14
530 INITIISADDR 192.7.10.1
530 INITIISPORT 80
530 INITBROWSERS 940
530 INITMYWID 49512,49605
//
//Configuration Driver 531
//
531 INITIPADDR 192.168.93.14
531 INITIISADDR 192.7.10.1
531 INITIISPORT 80
531 INITBROWSERS 950
531 INITMYWID 49606,49700
//
//Configuration Driver 532
//
532 INITIPADDR 192.168.93.14
532 INITIISADDR 192.7.10.1
532 INITIISPORT 80
532 INITBROWSERS 940
532 INITMYWID 49701,49794
//
//Configuration Driver 533
//
533 INITIPADDR 192.168.93.14
533 INITIISADDR 192.7.10.1
533 INITIISPORT 80
533 INITBROWSERS 950
533 INITMYWID 49795,49889
//
//Configuration Driver 534
//
534 INITIPADDR 192.168.93.14
534 INITIISADDR 192.7.10.1
534 INITIISPORT 80
534 INITBROWSERS 940
534 INITMYWID 49890,49983
//
//Configuration Driver 535
//
535 INITIPADDR 192.168.93.14
535 INITIISADDR 192.7.10.1
535 INITIISPORT 80
535 INITBROWSERS 950
535 INITMYWID 49984,50078
//
//Configuration Driver 536
//
536 INITIPADDR 192.168.93.14
536 INITIISADDR 192.7.10.1
536 INITIISPORT 80
536 INITBROWSERS 940
536 INITMYWID 50079,50172
//
//Configuration Driver 537
//
537 INITIPADDR 192.168.93.14
537 INITIISADDR 192.7.10.1
537 INITIISPORT 80
537 INITBROWSERS 950
537 INITMYWID 50173,50267
//
//Configuration Driver 538
//
538 INITIPADDR 192.168.93.14
538 INITIISADDR 192.7.10.1
538 INITIISPORT 80
538 INITBROWSERS 940
538 INITMYWID 50268,50361
//
//Configuration Driver 539
//
539 INITIPADDR 192.168.93.14
539 INITIISADDR 192.7.10.1
539 INITIISPORT 80
539 INITBROWSERS 950
539 INITMYWID 50362,50456
//
//Configuration Driver 540
//
540 INITIPADDR 192.168.93.14
540 INITIISADDR 192.7.10.1
540 INITIISPORT 80
540 INITBROWSERS 940
540 INITMYWID 50457,50550
//
//Configuration Driver 541
//
541 INITIPADDR 192.168.93.14
541 INITIISADDR 192.7.10.1
541 INITIISPORT 80
541 INITBROWSERS 950
541 INITMYWID 50551,50645
//
//Configuration Driver 542
//
542 INITIPADDR 192.168.93.14
542 INITIISADDR 192.7.10.1
542 INITIISPORT 80
542 INITBROWSERS 940
542 INITMYWID 50646,50739
//
//Configuration Driver 543
//
543 INITIPADDR 192.168.93.14
543 INITIISADDR 192.7.10.1
543 INITIISPORT 80
543 INITBROWSERS 950
543 INITMYWID 50740,50834
//
//Configuration Driver 544
```

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//
544 INITIPADDR 192.168.93.14
544 INITIISADDR 192.7.10.1
544 INITIISPORT 80
544 INITBROWSERS 940
544 INITMYWID 50835,50928
//
//Configuration Driver 545
//
545 INITIPADDR 192.168.93.14
545 INITIISADDR 192.7.10.1
545 INITIISPORT 80
545 INITBROWSERS 950
545 INITMYWID 50929,51023
//
//Configuration Driver 546
//
546 INITIPADDR 192.168.93.14
546 INITIISADDR 192.7.10.1
546 INITIISPORT 80
546 INITBROWSERS 940
546 INITMYWID 51024,51117
//
//Configuration Driver 547
//
547 INITIPADDR 192.168.93.14
547 INITIISADDR 192.7.10.1
547 INITIISPORT 80
547 INITBROWSERS 950
547 INITMYWID 51118,51212
//
//Configuration Driver 548
//
548 INITIPADDR 192.168.93.14
548 INITIISADDR 192.7.10.1
548 INITIISPORT 80
548 INITBROWSERS 940
548 INITMYWID 51213,51306
//
//Configuration Driver 549
//
549 INITIPADDR 192.168.93.14
549 INITIISADDR 192.7.10.1
549 INITIISPORT 80
549 INITBROWSERS 950
549 INITMYWID 51307,51401
//
//Configuration Driver 550
//
550 INITIPADDR 192.168.93.14
550 INITIISADDR 192.7.10.1
550 INITIISPORT 80
550 INITBROWSERS 940
550 INITMYWID 51402,51495
//
//Configuration Driver 551
//
551 INITIPADDR 192.168.93.14
551 INITIISADDR 192.7.10.1
551 INITIISPORT 80
551 INITBROWSERS 950
551 INITMYWID 51496,51590
//
//Configuration Driver 552
//
552 INITIPADDR 192.168.93.14
552 INITIISADDR 192.7.10.1
552 INITIISPORT 80
552 INITBROWSERS 940
552 INITMYWID 51591,51684
//
//Configuration Driver 553
//
553 INITIPADDR 192.168.93.14
553 INITIISADDR 192.7.10.1
553 INITIISPORT 80
553 INITBROWSERS 950
553 INITMYWID 51685,51779
//
//Configuration Driver 554
//
554 INITIPADDR 192.168.93.14
554 INITIISADDR 192.7.10.1
554 INITIISPORT 80
554 INITBROWSERS 940
554 INITMYWID 51780,51873
//
//Configuration Driver 555
//
555 INITIPADDR 192.168.93.14
555 INITIISADDR 192.7.10.1
555 INITIISPORT 80
555 INITBROWSERS 950
555 INITMYWID 51874,51968
//
//Configuration Driver 556
//
556 INITIPADDR 192.168.93.14
556 INITIISADDR 192.7.10.1
556 INITIISPORT 80
556 INITBROWSERS 940
556 INITMYWID 51969,52062
//
//Configuration Driver 557
//
557 INITIPADDR 192.168.93.14
557 INITIISADDR 192.7.10.1
557 INITIISPORT 80
557 INITBROWSERS 950
557 INITMYWID 52063,52157
//
//Configuration Driver 558
//
558 INITIPADDR 192.168.93.14
558 INITIISADDR 192.7.10.1
558 INITIISPORT 80
```

```
558 INITBROWSERS 940
558 INITMYWID 52158,52251
//
//Configuration Driver 559
//
559 INITIPADDR 192.168.93.14
559 INITIISADDR 192.7.10.1
559 INITIISPORT 80
559 INITBROWSERS 950
559 INITMYWID 52252,52346
//
//Configuration Driver 560
//
560 INITIPADDR 192.168.93.14
560 INITIISADDR 192.7.10.1
560 INITIISPORT 80
560 INITBROWSERS 940
560 INITMYWID 52347,52440
//
//Configuration Driver 561
//
561 INITIPADDR 192.168.93.15
561 INITIISADDR 192.8.10.1
561 INITIISPORT 80
561 INITBROWSERS 940
561 INITMYWID 52441,52534
//
//Configuration Driver 562
//
562 INITIPADDR 192.168.93.15
562 INITIISADDR 192.8.10.1
562 INITIISPORT 80
562 INITBROWSERS 940
562 INITMYWID 52535,52628
//
//Configuration Driver 563
//
563 INITIPADDR 192.168.93.15
563 INITIISADDR 192.8.10.1
563 INITIISPORT 80
563 INITBROWSERS 940
563 INITMYWID 52629,52722
//
//Configuration Driver 564
//
564 INITIPADDR 192.168.93.15
564 INITIISADDR 192.8.10.1
564 INITIISPORT 80
564 INITBROWSERS 940
564 INITMYWID 52723,52816
//
//Configuration Driver 565
//
565 INITIPADDR 192.168.93.15
565 INITIISADDR 192.8.10.1
565 INITIISPORT 80
565 INITBROWSERS 940
565 INITMYWID 52817,52910
//
//Configuration Driver 566
//
566 INITIPADDR 192.168.93.15
566 INITIISADDR 192.8.10.1
566 INITIISPORT 80
566 INITBROWSERS 940
566 INITMYWID 52911,53004
//
//Configuration Driver 567
//
567 INITIPADDR 192.168.93.15
567 INITIISADDR 192.8.10.1
567 INITIISPORT 80
567 INITBROWSERS 940
567 INITMYWID 53005,53098
//
//Configuration Driver 568
//
568 INITIPADDR 192.168.93.15
568 INITIISADDR 192.8.10.1
568 INITIISPORT 80
568 INITBROWSERS 940
568 INITMYWID 53099,53192
//
//Configuration Driver 569
//
569 INITIPADDR 192.168.93.15
569 INITIISADDR 192.8.10.1
569 INITIISPORT 80
569 INITBROWSERS 940
569 INITMYWID 53193,53286
//
//Configuration Driver 570
//
570 INITIPADDR 192.168.93.15
570 INITIISADDR 192.8.10.1
570 INITIISPORT 80
570 INITBROWSERS 940
570 INITMYWID 53287,53380
//
//Configuration Driver 571
//
571 INITIPADDR 192.168.93.15
571 INITIISADDR 192.8.10.1
571 INITIISPORT 80
571 INITBROWSERS 940
571 INITMYWID 53381,53474
//
//Configuration Driver 572
//
572 INITIPADDR 192.168.93.15
572 INITIISADDR 192.8.10.1
572 INITIISPORT 80
572 INITBROWSERS 940
572 INITMYWID 53475,53568
//
//Configuration Driver 573
```

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//
573 INITIPADDR 192.168.93.15
573 INITIISADDR 192.8.10.1
573 INITIISPORT 80
573 INITBROWSERS 940
573 INITMYWID 53569,53662
//
//Configuration Driver 574
//
574 INITIPADDR 192.168.93.15
574 INITIISADDR 192.8.10.1
574 INITIISPORT 80
574 INITBROWSERS 940
574 INITMYWID 53663,53756
//
//Configuration Driver 575
//
575 INITIPADDR 192.168.93.15
575 INITIISADDR 192.8.10.1
575 INITIISPORT 80
575 INITBROWSERS 940
575 INITMYWID 53757,53850
//
//Configuration Driver 576
//
576 INITIPADDR 192.168.93.15
576 INITIISADDR 192.8.10.1
576 INITIISPORT 80
576 INITBROWSERS 940
576 INITMYWID 53851,53944
//
//Configuration Driver 577
//
577 INITIPADDR 192.168.93.15
577 INITIISADDR 192.8.10.1
577 INITIISPORT 80
577 INITBROWSERS 940
577 INITMYWID 53945,54038
//
//Configuration Driver 578
//
578 INITIPADDR 192.168.93.15
578 INITIISADDR 192.8.10.1
578 INITIISPORT 80
578 INITBROWSERS 940
578 INITMYWID 54039,54132
//
//Configuration Driver 579
//
579 INITIPADDR 192.168.93.15
579 INITIISADDR 192.8.10.1
579 INITIISPORT 80
579 INITBROWSERS 940
579 INITMYWID 54133,54226
//
//Configuration Driver 580
//
580 INITIPADDR 192.168.93.15
580 INITIISADDR 192.8.10.1
580 INITIISPORT 80
580 INITBROWSERS 940
580 INITMYWID 54227,54320
//
//Configuration Driver 581
//
581 INITIPADDR 192.168.93.15
581 INITIISADDR 192.8.10.1
581 INITIISPORT 80
581 INITBROWSERS 940
581 INITMYWID 54321,54414
//
//Configuration Driver 582
//
582 INITIPADDR 192.168.93.15
582 INITIISADDR 192.8.10.1
582 INITIISPORT 80
582 INITBROWSERS 940
582 INITMYWID 54415,54508
//
//Configuration Driver 583
//
583 INITIPADDR 192.168.93.15
583 INITIISADDR 192.8.10.1
583 INITIISPORT 80
583 INITBROWSERS 940
583 INITMYWID 54509,54602
//
//Configuration Driver 584
//
584 INITIPADDR 192.168.93.15
584 INITIISADDR 192.8.10.1
584 INITIISPORT 80
584 INITBROWSERS 940
584 INITMYWID 54603,54696
//
//Configuration Driver 585
//
585 INITIPADDR 192.168.93.15
585 INITIISADDR 192.8.10.1
585 INITIISPORT 80
585 INITBROWSERS 940
585 INITMYWID 54697,54790
//
//Configuration Driver 586
//
586 INITIPADDR 192.168.93.15
586 INITIISADDR 192.8.10.1
586 INITIISPORT 80
586 INITBROWSERS 940
586 INITMYWID 54791,54884
//
//Configuration Driver 587
//
587 INITIPADDR 192.168.93.15
587 INITIISADDR 192.8.10.1
587 INITIISPORT 80
```

```
587 INITBROWSERS 940
587 INITMYWID 54885,54978
//
//Configuration Driver 588
//
588 INITIPADDR 192.168.93.15
588 INITIISADDR 192.8.10.1
588 INITIISPORT 80
588 INITBROWSERS 940
588 INITMYWID 54979,55072
//
//Configuration Driver 589
//
589 INITIPADDR 192.168.93.15
589 INITIISADDR 192.8.10.1
589 INITIISPORT 80
589 INITBROWSERS 940
589 INITMYWID 55073,55166
//
//Configuration Driver 590
//
590 INITIPADDR 192.168.93.15
590 INITIISADDR 192.8.10.1
590 INITIISPORT 80
590 INITBROWSERS 940
590 INITMYWID 55167,55260
//
//Configuration Driver 591
//
591 INITIPADDR 192.168.93.15
591 INITIISADDR 192.8.10.1
591 INITIISPORT 80
591 INITBROWSERS 940
591 INITMYWID 55261,55354
//
//Configuration Driver 592
//
592 INITIPADDR 192.168.93.15
592 INITIISADDR 192.8.10.1
592 INITIISPORT 80
592 INITBROWSERS 940
592 INITMYWID 55355,55448
//
//Configuration Driver 593
//
593 INITIPADDR 192.168.93.15
593 INITIISADDR 192.8.10.1
593 INITIISPORT 80
593 INITBROWSERS 940
593 INITMYWID 55449,55542
//
//Configuration Driver 594
//
594 INITIPADDR 192.168.93.15
594 INITIISADDR 192.8.10.1
594 INITIISPORT 80
594 INITBROWSERS 940
594 INITMYWID 55543,55636
//
//Configuration Driver 595
//
595 INITIPADDR 192.168.93.15
595 INITIISADDR 192.8.10.1
595 INITIISPORT 80
595 INITBROWSERS 940
595 INITMYWID 55637,55730
//
//Configuration Driver 596
//
596 INITIPADDR 192.168.93.15
596 INITIISADDR 192.8.10.1
596 INITIISPORT 80
596 INITBROWSERS 940
596 INITMYWID 55731,55824
//
//Configuration Driver 597
//
597 INITIPADDR 192.168.93.15
597 INITIISADDR 192.8.10.1
597 INITIISPORT 80
597 INITBROWSERS 940
597 INITMYWID 55825,55918
//
//Configuration Driver 598
//
598 INITIPADDR 192.168.93.15
598 INITIISADDR 192.8.10.1
598 INITIISPORT 80
598 INITBROWSERS 940
598 INITMYWID 55919,56012
//
//Configuration Driver 599
//
599 INITIPADDR 192.168.93.15
599 INITIISADDR 192.8.10.1
599 INITIISPORT 80
599 INITBROWSERS 940
599 INITMYWID 56013,56106
//
//Configuration Driver 600
//
600 INITIPADDR 192.168.93.15
600 INITIISADDR 192.8.10.1
600 INITIISPORT 80
600 INITBROWSERS 940
600 INITMYWID 56107,56200
//
//Configuration Driver 601
//
601 INITIPADDR 192.168.93.16
601 INITIISADDR 192.8.10.1
601 INITIISPORT 80
601 INITBROWSERS 940
601 INITMYWID 56201,56294
//
//Configuration Driver 602
```

```
//
602 INITIPADDR 192.168.93.16
602 INITIISADDR 192.8.10.1
602 INITIISPORT 80
602 INITBROWSERS 940
602 INITMYWID 56295,56388
//
//Configuration Driver 603
//
603 INITIPADDR 192.168.93.16
603 INITIISADDR 192.8.10.1
603 INITIISPORT 80
603 INITBROWSERS 940
603 INITMYWID 56389,56482
//
//Configuration Driver 604
//
604 INITIPADDR 192.168.93.16
604 INITIISADDR 192.8.10.1
604 INITIISPORT 80
604 INITBROWSERS 940
604 INITMYWID 56483,56576
//
//Configuration Driver 605
//
605 INITIPADDR 192.168.93.16
605 INITIISADDR 192.8.10.1
605 INITIISPORT 80
605 INITBROWSERS 940
605 INITMYWID 56577,56670
//
//Configuration Driver 606
//
606 INITIPADDR 192.168.93.16
606 INITIISADDR 192.8.10.1
606 INITIISPORT 80
606 INITBROWSERS 940
606 INITMYWID 56671,56764
//
//Configuration Driver 607
//
607 INITIPADDR 192.168.93.16
607 INITIISADDR 192.8.10.1
607 INITIISPORT 80
607 INITBROWSERS 940
607 INITMYWID 56765,56858
//
//Configuration Driver 608
//
608 INITIPADDR 192.168.93.16
608 INITIISADDR 192.8.10.1
608 INITIISPORT 80
608 INITBROWSERS 940
608 INITMYWID 56859,56952
//
//Configuration Driver 609
//
609 INITIPADDR 192.168.93.16
609 INITIISADDR 192.8.10.1
609 INITIISPORT 80
609 INITBROWSERS 940
609 INITMYWID 56953,57046
//
//Configuration Driver 610
//
610 INITIPADDR 192.168.93.16
610 INITIISADDR 192.8.10.1
610 INITIISPORT 80
610 INITBROWSERS 940
610 INITMYWID 57047,57140
//
//Configuration Driver 611
//
611 INITIPADDR 192.168.93.16
611 INITIISADDR 192.8.10.1
611 INITIISPORT 80
611 INITBROWSERS 940
611 INITMYWID 57141,57234
//
//Configuration Driver 612
//
612 INITIPADDR 192.168.93.16
612 INITIISADDR 192.8.10.1
612 INITIISPORT 80
612 INITBROWSERS 940
612 INITMYWID 57235,57328
//
//Configuration Driver 613
//
613 INITIPADDR 192.168.93.16
613 INITIISADDR 192.8.10.1
613 INITIISPORT 80
613 INITBROWSERS 940
613 INITMYWID 57329,57422
//
//Configuration Driver 614
//
614 INITIPADDR 192.168.93.16
614 INITIISADDR 192.8.10.1
614 INITIISPORT 80
614 INITBROWSERS 940
614 INITMYWID 57423,57516
//
//Configuration Driver 615
//
615 INITIPADDR 192.168.93.16
615 INITIISADDR 192.8.10.1
615 INITIISPORT 80
615 INITBROWSERS 940
615 INITMYWID 57517,57610
//
//Configuration Driver 616
//
616 INITIPADDR 192.168.93.16
616 INITIISADDR 192.8.10.1
616 INITIISPORT 80
```

```
616 INITBROWSERS 940
616 INITMYWID 57611,57704
//
//Configuration Driver 617
//
617 INITIPADDR 192.168.93.16
617 INITIISADDR 192.8.10.1
617 INITIISPORT 80
617 INITBROWSERS 940
617 INITMYWID 57705,57798
//
//Configuration Driver 618
//
618 INITIPADDR 192.168.93.16
618 INITIISADDR 192.8.10.1
618 INITIISPORT 80
618 INITBROWSERS 940
618 INITMYWID 57799,57892
//
//Configuration Driver 619
//
619 INITIPADDR 192.168.93.16
619 INITIISADDR 192.8.10.1
619 INITIISPORT 80
619 INITBROWSERS 940
619 INITMYWID 57893,57986
//
//Configuration Driver 620
//
620 INITIPADDR 192.168.93.16
620 INITIISADDR 192.8.10.1
620 INITIISPORT 80
620 INITBROWSERS 940
620 INITMYWID 57987,58080
//
//Configuration Driver 621
//
621 INITIPADDR 192.168.93.16
621 INITIISADDR 192.8.10.1
621 INITIISPORT 80
621 INITBROWSERS 940
621 INITMYWID 58081,58174
//
//Configuration Driver 622
//
622 INITIPADDR 192.168.93.16
622 INITIISADDR 192.8.10.1
622 INITIISPORT 80
622 INITBROWSERS 940
622 INITMYWID 58175,58268
//
//Configuration Driver 623
//
623 INITIPADDR 192.168.93.16
623 INITIISADDR 192.8.10.1
623 INITIISPORT 80
623 INITBROWSERS 940
623 INITMYWID 58269,58362
//
//Configuration Driver 624
//
624 INITIPADDR 192.168.93.16
624 INITIISADDR 192.8.10.1
624 INITIISPORT 80
624 INITBROWSERS 940
624 INITMYWID 58363,58456
//
//Configuration Driver 625
//
625 INITIPADDR 192.168.93.16
625 INITIISADDR 192.8.10.1
625 INITIISPORT 80
625 INITBROWSERS 940
625 INITMYWID 58457,58550
//
//Configuration Driver 626
//
626 INITIPADDR 192.168.93.16
626 INITIISADDR 192.8.10.1
626 INITIISPORT 80
626 INITBROWSERS 940
626 INITMYWID 58551,58644
//
//Configuration Driver 627
//
627 INITIPADDR 192.168.93.16
627 INITIISADDR 192.8.10.1
627 INITIISPORT 80
627 INITBROWSERS 940
627 INITMYWID 58645,58738
//
//Configuration Driver 628
//
628 INITIPADDR 192.168.93.16
628 INITIISADDR 192.8.10.1
628 INITIISPORT 80
628 INITBROWSERS 940
628 INITMYWID 58739,58832
//
//Configuration Driver 629
//
629 INITIPADDR 192.168.93.16
629 INITIISADDR 192.8.10.1
629 INITIISPORT 80
629 INITBROWSERS 940
629 INITMYWID 58833,58926
//
//Configuration Driver 630
//
630 INITIPADDR 192.168.93.16
630 INITIISADDR 192.8.10.1
630 INITIISPORT 80
630 INITBROWSERS 940
630 INITMYWID 58927,59020
//
//Configuration Driver 631
```

```
//
631 INITIPADDR 192.168.93.16
631 INITIISADDR 192.8.10.1
631 INITIISPORT 80
631 INITBROWSERS 940
631 INITMYWID 59021,59114
//
//Configuration Driver 632
//
632 INITIPADDR 192.168.93.16
632 INITIISADDR 192.8.10.1
632 INITIISPORT 80
632 INITBROWSERS 940
632 INITMYWID 59115,59208
//
//Configuration Driver 633
//
633 INITIPADDR 192.168.93.16
633 INITIISADDR 192.8.10.1
633 INITIISPORT 80
633 INITBROWSERS 940
633 INITMYWID 59209,59302
//
//Configuration Driver 634
//
634 INITIPADDR 192.168.93.16
634 INITIISADDR 192.8.10.1
634 INITIISPORT 80
634 INITBROWSERS 940
634 INITMYWID 59303,59396
//
//Configuration Driver 635
//
635 INITIPADDR 192.168.93.16
635 INITIISADDR 192.8.10.1
635 INITIISPORT 80
635 INITBROWSERS 940
635 INITMYWID 59397,59490
//
//Configuration Driver 636
//
636 INITIPADDR 192.168.93.16
636 INITIISADDR 192.8.10.1
636 INITIISPORT 80
636 INITBROWSERS 940
636 INITMYWID 59491,59584
//
//Configuration Driver 637
//
637 INITIPADDR 192.168.93.16
637 INITIISADDR 192.8.10.1
637 INITIISPORT 80
637 INITBROWSERS 940
637 INITMYWID 59585,59678
//
//Configuration Driver 638
//
638 INITIPADDR 192.168.93.16
638 INITIISADDR 192.8.10.1
638 INITIISPORT 80
638 INITBROWSERS 940
638 INITMYWID 59679,59772
//
//Configuration Driver 639
//
639 INITIPADDR 192.168.93.16
639 INITIISADDR 192.8.10.1
639 INITIISPORT 80
639 INITBROWSERS 940
639 INITMYWID 59773,59866
//
//Configuration Driver 640
//
640 INITIPADDR 192.168.93.16
640 INITIISADDR 192.8.10.1
640 INITIISPORT 80
640 INITBROWSERS 940

640 INITMYWID 59867,59960
```

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. . .
. . . . . : NoEthernet 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. . . . . . . . : DisabledEthernet 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. . .
. . . . . : NoEthernet 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 Tcpip. . . . . . . . : DisabledEthernet 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 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 . . . . . . . . . . . . : SQLRTE3
Primary Dns Suffix  . . . . . . . :    Node Type . . . . . . . . . . . . :
Unknown   IP Routing Enabled. . . . . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet 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 Tcpip. . . . . . . . : DisabledEthernet 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. . .
. . . . . : NoEthernet 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. . . . . . . . : DisabledEthernet 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. . .
. . . . . : NoEthernet 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. . . . . . . . : DisabledEthernet 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. . .
. . . . . : NoEthernet 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. . . . . . . . : DisabledEthernet 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 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 . . . . . . . . . . . . : SQLRTE7
Primary Dns Suffix  . . . . . . . :    Node Type . . . . . . . . . . . . :
Unknown   IP Routing Enabled. . . . . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet 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 Tcpip. . . . . . . . : DisabledEthernet 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 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 . . . . . . . . . . . . : SQLRTE8
Primary Dns Suffix  . . . . . . . :    Node Type . . . . . . . . . . . . :
Unknown   IP Routing Enabled. . . . . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet 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. . . . . . . . : DisabledEthernet 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

C:\rhost>if 'ipconfig' == '' goto usage

C:\rhost>c:

C:\rhost>cd \webdriver

C:\webdriver>call ipconfig /all
Windows IP Configuration   Host Name . . . . . . . . . . . . : SQLRTE9
Primary Dns Suffix  . . . . . . . :    Node Type . . . . . . . . . . . . :
Unknown   IP Routing Enabled. . . . . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet adapter RTE:   Connection-specific DNS Suffix  . :
Description . . . . . . . . . . . : Intel(R) PRO/1000 MT Network
Connection #2   Physical Address. . . . . . . . . : 00-11-43-58-1C-63
DHCP Enabled. . . . . . . . . . . . : No   IP Address. . . . . . . . . . . .
: 192.5.10.12   Subnet Mask . . . . . . . . . . . . : 255.255.255.0   IP
Address. . . . . . . . . . . . . : 192.1.1.1   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. . .
. . . . . . . : 00-11-43-58-1C-62   DHCP Enabled. . . . . . . . . . . . : No
IP Address. . . . . . . . . . . . . : 192.168.93.9   Subnet Mask . . . . . .
. . . . . : 255.255.255.0   IP Address. . . . . . . . . . . . . :
192.158.2.1   Subnet Mask . . . . . . . . . . . . : 255.255.255.0   IP
Address. . . . . . . . . . . . . : 192.158.1.1   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 . . . . . . . . . . . . : SQLRTE10
Primary Dns Suffix  . . . . . . . :    Node Type . . . . . . . . . . . . :
Unknown   IP Routing Enabled. . . . . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet adapter RTE:   Connection-specific DNS Suffix  . :
Description . . . . . . . . . . . : Intel(R) PRO/1000 MT Network
Connection #2   Physical Address. . . . . . . . . : 00-11-43-58-08-88
DHCP Enabled. . . . . . . . . . . . : No   IP Address. . . . . . . . . . . .
: 192.5.10.13   Subnet Mask . . . . . . . . . . . . : 255.255.255.0   IP
Address. . . . . . . . . . . . . : 192.2.1.1   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. . .
. . . . . . . : 00-11-43-58-08-87   DHCP Enabled. . . . . . . . . . . . : No
IP Address. . . . . . . . . . . . . : 192.168.93.10   Subnet Mask . . . . .
. . . . . . . : 255.255.255.0   IP Address. . . . . . . . . . . . . :
192.158.1.2   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 . . . . . . . . . . . . : SQLRTE11
Primary Dns Suffix  . . . . . . . :    Node Type . . . . . . . . . . . . :
Unknown   IP Routing Enabled. . . . . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet adapter RTE:   Connection-specific DNS Suffix  . :
Description . . . . . . . . . . . : Intel(R) PRO/1000 MT Network
Connection #2   Physical Address. . . . . . . . . : 00-11-43-58-08-25
DHCP Enabled. . . . . . . . . . . . : No   IP Address. . . . . . . . . . . .
: 192.6.10.12   Subnet Mask . . . . . . . . . . . . : 255.255.255.0   IP
Address. . . . . . . . . . . . . : 192.3.1.1   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. . .
. . . . . . . : 00-11-43-58-08-24   DHCP Enabled. . . . . . . . . . . . : No
IP Address. . . . . . . . . . . . . : 192.168.93.11   Subnet Mask . . . . .
. . . . . . . : 255.255.255.0   IP Address. . . . . . . . . . . . . :
192.158.1.3   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 . . . . . . . . . . . . : SQLRTE12
Primary Dns Suffix  . . . . . . . :    Node Type . . . . . . . . . . . . :
Unknown   IP Routing Enabled. . . . . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet adapter RTE:   Connection-specific DNS Suffix  . :
```

```
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2   Physical Address. . . . . : 00-11-43-58-1C-07
DHCP Enabled. . . . . : No   IP Address. . . . . .
: 192.6.10.13   Subnet Mask . . . . . : 255.255.255.0   IP
Address. . . . . : 192.4.1.1   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. . .
. . . . . : 00-11-43-58-1C-06   DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.12   Subnet Mask . . . . .
. . . . . : 255.255.255.0   IP Address. . . . . :
192.158.1.4   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 . . . . . : SQLRTE13
Primary Dns Suffix  . . . . . :    Node Type . . . . . :
Unknown   IP Routing Enabled. . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet adapter RTE:   Connection-specific DNS Suffix  . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2   Physical Address. . . . . : 00-11-43-58-08-3E
DHCP Enabled. . . . . : No   IP Address. . . . . .
: 192.7.10.12   Subnet Mask . . . . . : 255.255.255.0   IP
Address. . . . . : 192.5.1.1   Subnet Mask . . . . . .
. . : 255.255.255.0   Default Gateway . . . . . :    NetBIOS over
Tcpip. . . . . : DisabledEthernet adapter Admin:   Connection-
specific DNS Suffix  . :    Description . . . . . : Intel(R)
PRO/1000 MT Network Connection   Physical Address. . . . . : 00-
11-43-58-08-3D   DHCP Enabled. . . . . : No   IP Address. . .
. . . . . : 192.168.93.13   Subnet Mask . . . . . :
255.255.255.0   IP Address. . . . . : 192.158.1.5   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 . . . . . : SQLRTE14
Primary Dns Suffix  . . . . . :    Node Type . . . . . :
Unknown   IP Routing Enabled. . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet adapter RTE:   Connection-specific DNS Suffix  . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2   Physical Address. . . . . : 00-11-43-58-08-41
DHCP Enabled. . . . . : No   IP Address. . . . . .
: 192.7.10.13   Subnet Mask . . . . . : 255.255.255.0   IP
Address. . . . . : 192.6.1.1   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. . .
. . . . . : 00-11-43-58-08-40   DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.14   Subnet Mask . . . . .
. . . . . : 255.255.255.0   IP Address. . . . . :
192.158.1.6   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 . . . . . : SQLRTE15
Primary Dns Suffix  . . . . . :    Node Type . . . . . :
Unknown   IP Routing Enabled. . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet adapter RTE:   Connection-specific DNS Suffix  . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2   Physical Address. . . . . : 00-11-43-58-1C-D8
DHCP Enabled. . . . . : No   IP Address. . . . . .
: 192.8.10.12   Subnet Mask . . . . . : 255.255.255.0   IP
Address. . . . . : 192.7.1.1   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. . .
. . . . . : 00-11-43-58-1C-D7   DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.93.15   Subnet Mask . . . . .
. . . . . : 255.255.255.0   IP Address. . . . . :
192.158.1.7   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 . . . . . : SQLRTE16
Primary Dns Suffix  . . . . . :    Node Type . . . . . :
Unknown   IP Routing Enabled. . . . . : No   WINS Proxy Enabled. . .
. . . . . : NoEthernet adapter RTE:   Connection-specific DNS Suffix  . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2   Physical Address. . . . . : 00-11-43-58-08-22
DHCP Enabled. . . . . : No   IP Address. . . . . .
: 192.8.10.13   Subnet Mask . . . . . : 255.255.255.0   IP
Address. . . . . : 192.8.1.1   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. . .
```

```
. . . . . : 00-11-43-58-08-21   DHCP Enabled. . . . . . . . . . . : No
IP Address. . . . . . . . . . . . : 192.168.93.16   Subnet Mask . . . . .
. . . . . : 255.255.255.0   IP Address. . . . . . . . . . . . :
192.158.1.8   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  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  13,700,440,064 bytes free
 Volume in drive \\sqlrte2\c$ has no label.
 Volume Serial Number is 7433-AD41

 Directory of \\sqlrte2\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  13,743,558,656 bytes free
 Volume in drive \\sqlrte3\c$ has no label.
 Volume Serial Number is 7433-AD41

 Directory of \\sqlrte3\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  13,637,185,536 bytes free
 Volume in drive \\sqlrte4\c$ has no label.
 Volume Serial Number is 7433-AD41

 Directory of \\sqlrte4\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  13,649,059,840 bytes free
 Volume in drive \\sqlrte5\c$ has no label.
 Volume Serial Number is 7433-AD41

 Directory of \\sqlrte5\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  13,338,583,040 bytes free
 Volume in drive \\sqlrte6\c$ has no label.
 Volume Serial Number is 7433-AD41

 Directory of \\sqlrte6\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  13,350,076,416 bytes free
 Volume in drive \\sqlrte7\c$ has no label.
 Volume Serial Number is 7433-AD41

 Directory of \\sqlrte7\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  13,356,679,168 bytes free
 Volume in drive \\sqlrte8\c$ has no label.
 Volume Serial Number is 7433-AD41

 Directory of \\sqlrte8\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  12,866,953,216 bytes free
 Volume in drive \\sqlrte9\c$ has no label.
 Volume Serial Number is 9491-81F8

 Directory of \\sqlrte9\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  30,434,963,456 bytes free
 Volume in drive \\sqlrte10\c$ has no label.
 Volume Serial Number is 9491-81F8

 Directory of \\sqlrte10\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  30,342,942,720 bytes free
 Volume in drive \\sqlrte11\c$ has no label.
 Volume Serial Number is 9491-81F8

 Directory of \\sqlrte11\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  30,388,113,408 bytes free
 Volume in drive \\sqlrte12\c$ has no label.
 Volume Serial Number is 9491-81F8

 Directory of \\sqlrte12\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  30,406,483,968 bytes free
 Volume in drive \\sqlrte13\c$ has no label.
 Volume Serial Number is 9491-81F8

 Directory of \\sqlrte13\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  30,382,395,392 bytes free
 Volume in drive \\sqlrte14\c$ has no label.
 Volume Serial Number is 9491-81F8

 Directory of \\sqlrte14\c$\webdriver
```

```
06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  30,423,592,960 bytes free
 Volume in drive \\sqlrte15\c$ has no label.
 Volume Serial Number is 9491-81F8

 Directory of \\sqlrte15\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  30,417,506,304 bytes free
 Volume in drive \\sqlrte16\c$ has no label.
 Volume Serial Number is 9491-81F8

 Directory of \\sqlrte16\c$\webdriver

06/06/2005  02:33p              94,208 webdriver.exe
               1 File(s)         94,208 bytes
               0 Dir(s)  30,453,272,576 bytes free
 Volume in drive C is Local Disk
 Volume Serial Number is 4045-54DA
```

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
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Appendix E - Disk Storage

TPC-C 60-Day Disk Space Requirements

WH Used	59960				
Init Warehouses	**62,000**	tpmC	**749,839**	tpmC/W	**12.09**

Table	**Initial Rows**	**Data KB**	**Index KB**	**Extra 5% KB**	**Total With 5% KB**
Warehouse	62,000	6,616	776	370	7,762
District	620,000	68,896	1,568	3,523	73,987
Customer	1,860,000,000	381,538,464	82,232,464	23,188,546	486,959,474
Customer.Text	1,860,000,000	1,167,061,712		58,353,086	1,225,414,798
History (D)	1,860,000,000	108,613,144	406,720		109,019,864
Order (D)	1,860,000,000	60,734,696	138,464		60,873,160
New-Order	558,000,000	9,942,096	25,088	498,359	10,465,543
Order-Line (D)	18,599,941,258	1,219,668,280	2,872,704		1,222,540,984
Item	100,000	9,416	816	512	10,744
Stock	6,200,000,000	1,984,000,000	4,182,624	99,409,131	2,087,591,755
Totals KB		4,931,643,320	89,861,224	181,453,527	5,202,958,071

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	180	7,600	1,368,000	1,303,249	1,326,350
mssql70_cs_fg	180	14,900	2,682,000	2,514,210	2,514,210
mssql70_ord_fg	180	9,900	1,782,000	1,263,554	1,742,099
Total Allocated MB			**5,832,042**	**5,081,056**	**5,582,701**

	MB	
Dynamic Space MB	1,356,461	Sum of data for orders, order_line & history
Static Space	3,724,553	Sum of data+index+5% - Dynamic Space
Free Space	751,028	Total allocated space - (Dynamic & Static Spaces)
Daily Growth	262,484	(Dynamic Space / (W * 62.5)) * tpmC
Daily Spread	357,302	Free space - 1.5 * Daily growth (zero if negative)
	0	SQL Server can be configured to eliminate Daily Spread
60 Day Space MB	19,473,622	Static Space + 60 * (Daily Growth + Daily Spread)
60 Day Space GB	**19,017.21**	
8 hr log GB	**2,248.44**	(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)
	68204	**66.605 GB**	Capacity of 73GB 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	19017.21 GB	1260	43066.25 GB	36GB drives
		1260	43066.25 GB	
8-hr log+mirror	4496.88 GB	24	3157.74 GB	146GB drives
		24	1548.76 GB	73GB drives
		Overhead	-60.20 GB	
OS, SQL Server	14.00 GB	2	55.90 GB	36GB drives
Total space	**23528.09 GB**	**1310**	**47768.45 GB**	**46.6 TB**

TPC-C Dynamic Table Growth Rates for 8 Hours					749,839 tpmC
Tables	**Initial (KB)**	**Final (KB)**	**Change(KB)**	**KB / New-Order**	**8-Hr MB**
History	109,019,864	117,910,624	8,890,760	0.0657	129,565.17
Orders	60,873,160	74,550,760	13,677,600	0.1011	94,984.34
Order_line	1,222,540,984	1,388,244,760	165,703,776	1.2249	1,624,428.32
Dynamic	**1,392,434,008**	**1,580,706,144**	**188,272,136**	**1.3917**	**1,848,977.83**
New_order	9,967,184	14,952,544	4,985,360	0.0369	22,686.81
Static					
Log	34,459,649	907,641,352	873,181,703	**6.4547**	2,302,400.60
SUM(d_next_o_id)	1,860,620,000	1,995,898,120	135,278,120		

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

March 21, 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** *Per Processor License* *Discount Schedule: Open Program - Level C* *Unit Price reflects a 6% discount from the retail unit price of $24,999.*	$23,432	16	$374,912
P73-00295	**Windows Server 2003 Standard Edition** *Server License Only - No CALs* *Discount Schedule: Open Program - No Level* *Unit Price reflects a 28% discount from the retail unit price of $999.*	$719	8	$5,752
254-00170	**Visual C++ Standard Edition** *No Discounts Applied*	$109	1	$109
N/A	**Microsoft Problem Resolution Services** *Professional Support* *(1 Incident)*	$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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SALES QUOTE

SQ-21931	Apr 27,2006

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	May 27, 2006	John Palmieri	

Quotation	PO #	Reference	Ship VIA	Page	Printed
SQ-21931			UPS GROUND	1	05/03/06 15:51

L	Item	Description	Qty	Ship	Price	M	Discount	Amount
1		ES7000/one Server						
2	ES7112163-700	SYS:ES7000/ONE, 16X 7041/3.0GHZ,64GB	1		399000.00	EA		399000.00
3	FAC7102401-ICA	MEM: 8GB ES7/ONE MEMORY, 4GB DIMMS	8		9880.00	EA		79040.00
4	FAC7116401-64G	64GB ES7/600 MEMORY, 4GB DIMMS	6		59584.00	EA		357504.00
5	FC76222-P64	CTRL: 2 GB FC, INTELLIFIBRE	17		2850.00	EA		48450.00
6	FCH7440231-PCX	CTRL:VI-OVER-FC HBA, 4GB 2-PORT, PCI	8		1900.00	EA		15200.00
7	FAC7100361-IDK	KIT: 1X RAUD CIBTRIKKERM 1X 36GB DISK	1		779.00	EA		779.00
8	HDX4036101-X25	DISK: 1 X 36GB 10KRPM SAS	1		428.00	EA		428.00
9	ES70006-UIF	I/F: MONITOR, 17" LCD, KYBRD, MSE & CAB	1		546.00	EA		546.00
10	WNX6416-TSP	O/S: WIN2K3 SRVR, DCX64 EDM, 16P	1		35112.00	EA		35112.00
11		1 yr Lsub						
12	DUS200316-TSP	O/S:DC 16X LTD. SUB 1 YR	2		3173.00	EA		6346.00
13		Storage Hardware						
14	JBD203615-P84	6 RACKS - 84 X 36GB 15K RPM	16		36086.00	EA		577376.00
15	JBD203615-P42	DISK: 1.5TB PKG, 42X 36GB, 15KRPM	1		22791.00	EA		22791.00
16	CXR7315-2GF	EMCDISK:73GB 15K 12V 520BPS 2GB	24		1259.00	EA		30216.00
17	CXR14610-2GF	DISK:146GB,10KRPM,2GB FC, +10%SPARES	26		1349.00	EA		35074.00
18	CX300-DPE	DPE:2RAID CNTRL, 1GB CACHE EA	3		13300.00	EA		39900.00
19	CXP2-FD	EMCDISK: CX DAE FC 2GB EXPANSION	1		5605.00	EA		5605.00
20	CXN300-WRK	SYS MGT: STORAGE, NAVISPHERE MANAGER	1		2138.00	EA		2138.00
21	JBD2002-SA	DISK:NON-HA ENCLOSURE WITH 14 DRIVE SLO	60		3197.00	EA		191820.00
22	JBD2011-SA	DISK:NON-HA ENCLOSURE WITH 14 DRIVE SLO	30		3413.00	EA		102390.00
23	RMM20103-ELS	SAN:SYMM DISK VIRT SRVR II-ELS	15		4559.00	EA		68385.00
24	RMM20701-TAR	SAN:HBA,ATTO PCI3300	45		1805.00	EA		81225.00
25	USS10300-SW	SAN:USS2100 SW & PROD INF	1		5472.00	EA		5472.00
26	USS20305-LIC	SAN:USS2200 5 TBYTE LIC	1		16800.00	EA		16800.00
27	USS20320-LIC	SAN:USS2100 20 TBYTE LIC	2		37484.00	EA		74968.00
28	JBD20003-CCL	DISK:.3 METER 2GB FIBRE CHANNEL COPPER	60		53.00	EA		3180.00

Page 1	
SubTotal	2199745.00

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SALES QUOTE	
SQ-21931	Apr 27,2006

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Account	Terms	Due Date	Account Rep	Schedule Date
UNIMISSI	NET 30	May 27, 2006	John Palmieri	

Quotation	PO #	Reference	Ship VIA	Page	Printed
SQ-21931			UPS GROUND	2	05/03/06 15:51

L	Item	Description	Qty	Ship	Price	M	Discount	Amount
29	JBD2001-RMK	DISK:ENCLOSURE RACK MOUNT KIT FOR 36U RA	90		190.00	EA		17100.00
30	KVM9163101-SWC	SWITCH:KVM 16-PORT PS/2-CAT 5	2		1805.00	EA		3610.00
31	ES70004-UIF	I/F: MONITOR, 17-INCH LDC, KYBRD, MSE	2		665.00	EA		1330.00
32		CABLE						
33	KVM9001301-CNV	ADPT: CAT5 TO PS/2	23		114.00	EA		2622.00
34	SFR9-PWR	ACC: 9-PLUG POWER STRIP	30		162.00	EA		4860.00
35	USE1936-LC6	PWR CORD:C20/NEMA L6-20P	30		86.00	EA		2580.00
36	HRT361941-OFT	ACC:36U 19X41 OPEN FRT CAB, HRT COLOR	10		1425.00	EA		14250.00
37		ES3120L Servers						
38	ESL312002-340	UNISYS ESL 3120 3.4 GHZ	8		1859.00	EA		14872.00
39	CPL3120342-2MB	ACC:ESL3120 3.4G 2MB	8		1063.00	EA		8504.00
40	DIM3120021-2GB	MEM: 2GB, 2X 1GB DIMMS DDR SDRAM	8		862.00	EA		6896.00
41	HDP36115-DC4	DISK:36GB U320 15K CAR	8		332.00	EA		2656.00
42	HBP3120101-MOD	DISK:ESL3120 HSBP MOD	8		264.00	EA		2112.00
43	ESL3120-VRL	ACC: ESL3120 V-RAILS	8		331.00	EA		2648.00
44	FCH7440231-PCX	CTRL:VI-OVER-FC HBA, 4GB 2-PORT, PCI	8		1900.00	EA		15200.00
45	CDR12243-AIS	CDR: 24X SMSNG CD	8		41.00	EA		328.00
46								
47	DISCOUNT	Volume Cash Discounts for	1		-321904.00	EA		-321904.00
48		similar configurations and						
49		quantities						
50		Disks come with a 3 year						
51		return-to-factory warranty,						
52		7 day replenishment						
53		Quote valid for 90 days						
54								

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Exempt	1977409.00
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Paid	0.00
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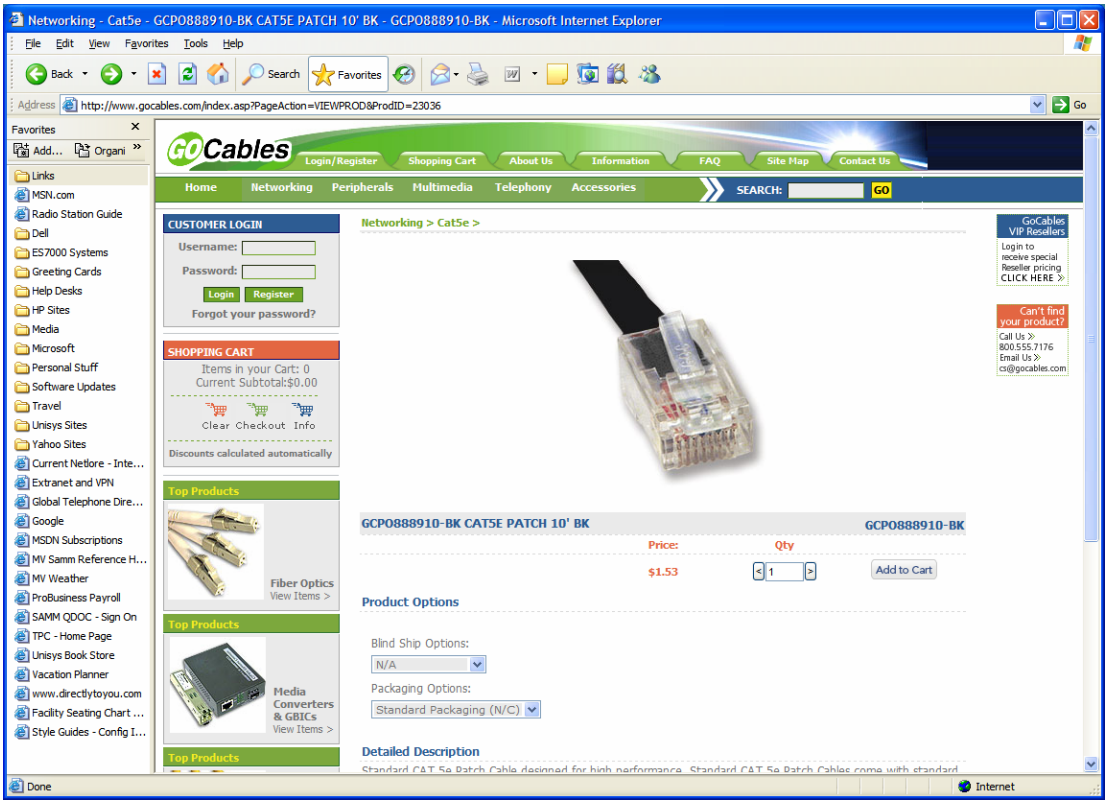
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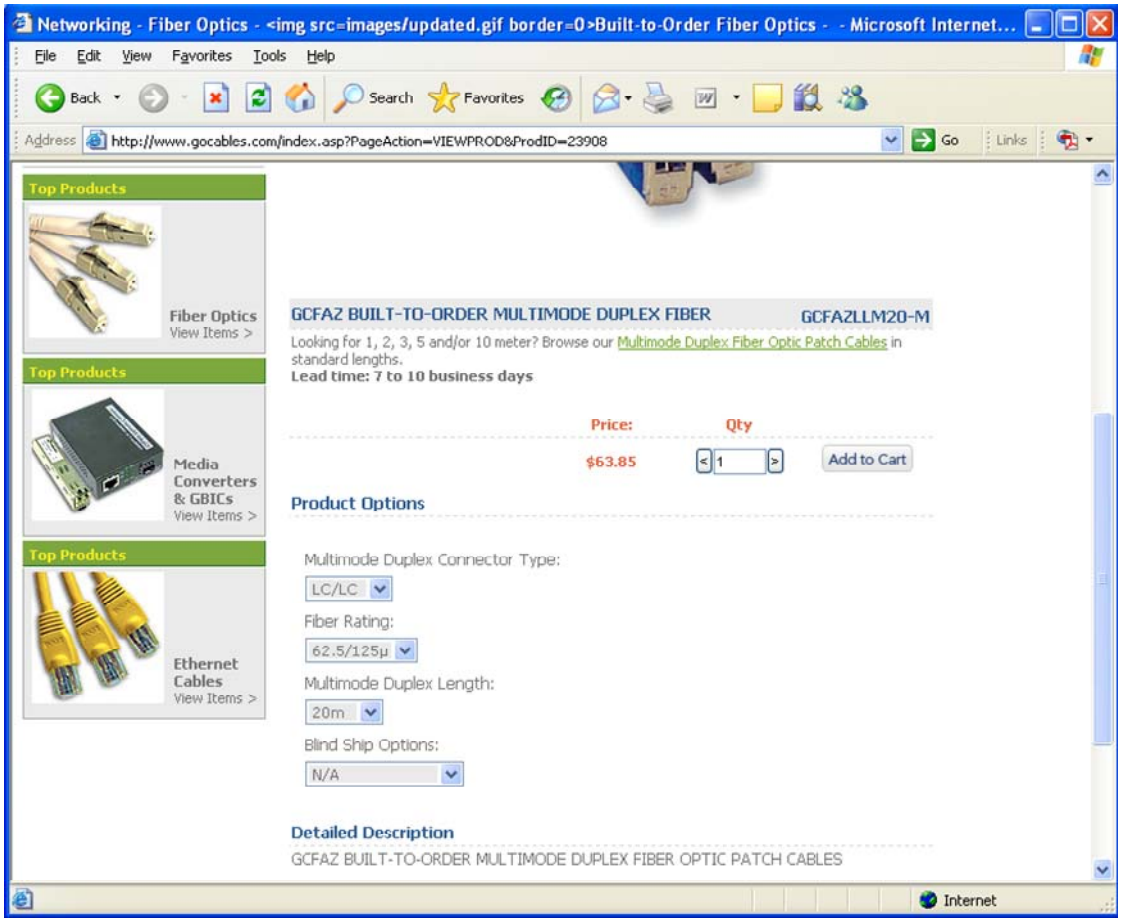
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Fiber Rating:
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Multimode Duplex Length:
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Blind Ship Options:
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