



TPC Benchmark™ C Full Disclosure Report

**Unisys ES7000 Aries 420
Enterprise Server (16P)**

using

**Microsoft SQL Server 2000
Enterprise Edition (64-bit)**

on

**Microsoft Windows Server 2003,
Datacenter Edition for 64-bit Itanium-based
Systems**

**First Edition
January 20, 2004**

First Edition – January 2004

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

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

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Overview

This report documents the methodology and results of the TPC Benchmark C (TPC-C) conducted on the Unisys Corporation ES7000 Aries 420 Enterprise Server (16P). The operating system on the server was Microsoft Windows Server 2003, Datacenter Edition for 64-bit Itanium-based Systems. The DBMS used was Microsoft SQL Server 2000 Enterprise Edition (64-bit). The operating system on the clients was Microsoft Windows 2003 Server. The clients ran Microsoft's Internet Information Server 6.0 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.

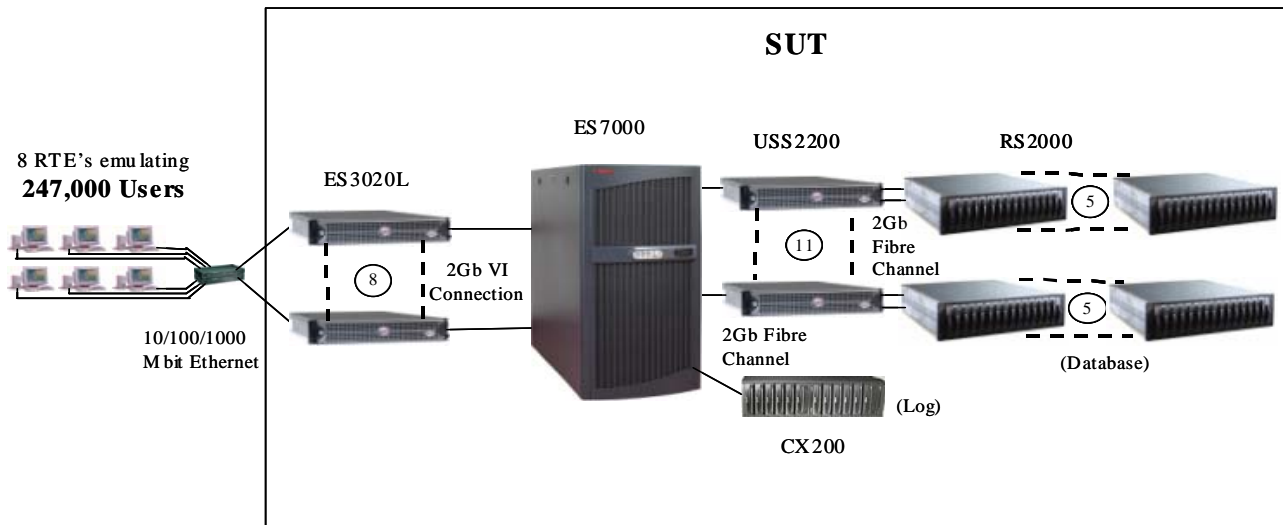
Executive Summary

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, 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 Aries 420 Enterprise Server | | TPC-C Rev. 5.1 |
| | | | | Report Date January 20, 2004 |
| Total System Cost | | TPC-C Throughput | Price Performance | Availability Date |
| \$1,384,981 | | 309,036.53 tpmC | \$4.49 / tpmC | January 30, 2004 |
| Processors | Database Manager | Operating System | Other Software | Number of Users |
| 16 - Database 16 - Clients | Microsoft SQL Server 2000 Enterprise Edition 64-bit | Microsoft Windows Server 2003, Datacenter Edition 64-bit | Windows Server 2003 w/ IIS 6.0 and COM+ Microsoft Visual C++ | 247,000 |



Clients (each of 8)
ES3020L Server
 2 x 2.4GHz Intel® Xeon™
 w/ 512KB L2 cache,
 1 GB memory,
 1 x 18GB internal disk,
 2 Inbuilt 10/100/1000Mb
 Ethernet (1 used),
 1 x PCI VI controller

**ES7000 Aries 420
Enterprise Server**
 16 x 1.5GHz Intel® Itanium® 2
 Processor w/ 6MB iL3 cache,
 128 GB memory,
 2 x 36GB SCSI disks,
 1 x PCI SCSI RAID controller,
 7 x PCI Fibre Channel controllers,
 8 x PCI VI controllers

**Storage
USS2200/RS2000 & CX200**
 770 x 18GB + 24 x 73GB
 Hot-Pluggable,
 External Fibre Channel disks,
 13 x FC RAID controllers

| System Components | Enterprise Server | | Clients (each of 8) | |
|-------------------|-------------------|--|---------------------|---|
| | Quantity | Type | Quantity | Type |
| Processors | 16 | 1.5GHz Intel® Itanium® 2 with 6MB iL3 Cache | 2 | 2.4GHz Intel® Xeon™ Processor, 512KB Lvl 2 Cache |
| Memory | 16 | 8 GB | 2 | 512 MB |
| Disk Controllers | 7 | PCI Fibre Channel | 1 | Inbuilt SCSI |
| | 1 | PCI SCSI RAID (boot media) | | |
| Disk Drives | 770 | 18GB FC (17.1 GB useable) | 1 | 18GB SCSI (16.9 GB useable) |
| | 24 | 73GB FC (66.6 GB useable) | | |
| | 2 | 36GB boot (34.3 GB useable) | | |
| Total Storage | | 13.8 TB | | 16.9 GB |
| Tape / CD-ROM | 1 | IDE CD-ROM | 1 | IDE CD-ROM |
| Terminals | 1 | Console Monitor | 1 | Console Monitor |

Numerical Quantities Summary

MQTh, Computed Maximum Qualified Throughput: 309,036.53 tpmC

Response Times, in seconds

| Transaction | 90th %ile | Average | Maximum |
|--------------------------------|-----------|---------|---------|
| New-Order | 0.50 | 0.31 | 5.25 |
| Payment | 0.46 | 0.28 | 5.27 |
| Order-Status | 0.48 | 0.29 | 5.09 |
| Delivery (interactive portion) | 0.39 | 0.22 | 3.30 |
| Delivery (deferred portion) | 0.19 | 0.14 | 3.75 |
| Stock-Level | 0.95 | 0.59 | 4.48 |
| Menu | 0.39 | 0.22 | 3.31 |

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) | 4.01% |
| 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 | 38 minutes |
| Measurement interval (M) | 120 minutes |
| Transactions (all types) completed during measurement interval | 82,552,239 |
| Ramp-down time | 32 minutes |

Checkpointing:

| | |
|-----------------------|------------|
| Number of checkpoints | 4 |
| Checkpoint interval | 30 minutes |



ES7000 Aries 420 Enterprise Server

TPC-C Rev. 5.1

Report Date
January 20, 2004

| Description | Part No. | Third Party | | Unit Price | Qty. | Extended Price | 3 yr.Maint. Price |
|--|------------------|-------------|-------|-------------------------|------|--------------------|-------------------|
| | | Brand | Price | | | | |
| Server Hardware: | | | | | | | |
| SYS: ES7000-420, 16x 1.5GHz/6MB, 64GB Mem. | ES7420166-111 | | 1 | \$287,328 | 1 | \$287,328 | \$12,936 |
| 1x RAID Controller, 2x 36GB Disk (boot media) | Included | | | | | | |
| Sentinel System Management S/W and Media | Included | | | | | | |
| MEM: 32GB Memory, 2 GB DIMMs | MEM162-32G | | 1 | \$30,400 | 2 | \$60,800 | |
| MOD: I/F, 2-Port IO Module, 133MHz | MOD3133-PCI | | 1 | \$1,805 | 3 | \$5,415 | |
| CTRL: Fibre Channel HBA, 2-Port, 64-bit PCI | FC76222-P64 | | 1 | \$2,850 | 7 | \$19,950 | |
| CTRL: VI Connection HBA , 1-Port, PCI + 10% Spares * | QLA2350-BK | 3 | 4 | \$1,559 | 10 | \$15,590 | Spared |
| I/F: Monitor, 15-inch Color, Kybrd, Mse & Cable | ES70003-UIF | | 1 | \$570 | 1 | \$570 | |
| Server Software: | | | | | | | |
| O/S: Windows Srvr 2003, Datacenter Edtn,16P, 1yr Lsub. | WND2316-TSP | 2 | 1 | \$35,112 | 1 | \$35,112 | |
| O/S: Windows Server 2003, DC Lmtd Sbscrptn, 1yr. | DUS200316-TSP | 2 | 1 | \$3,173 | 2 | \$6,346 | |
| O/S: Windows Server 2003, DC Support, 24x7x4, 1yr. | GTS7524016-SSA | 2 | 1 | \$12,574 | 3 | | \$37,722 |
| APP: Microsoft SQL Server 2000 Enterprise Edtn, 16P | DQL200316-LX | 2 | 1 | \$212,800 | 1 | \$212,800 | ** Inc. below |
| SRVC: Microsoft Database Server Support Package** | PRO-PRORS-16U-01 | 2 | 2 | \$1,950 | 3 | | \$5,850 |
| | | | | Server Subtotal | | \$643,911 | \$56,508 |
| Storage Hardware: | | | | | | | |
| DISK: 1.5TB Pkg, 84x 18GB, 15Krpm, + 10% spares * | JBD201815-P84 | | 1 | \$29,839 | 10 | \$298,390 | Spared |
| DISK: 18GB, 15Krpm, 2Gb FC, + 10% spares * | JBD201815-2F | | 1 | \$578 | 7 | \$4,046 | Spared |
| DISK: 73GB, 10Krpm, 2Gb FC, + 10% Spares * | CXR7310-2GF | | 1 | \$1,568 | 27 | \$42,336 | Spared |
| RCK: FC 2Gb Storage, Standard, Copper/Copper I/F | JBD2002-SA | | 1 | \$3,010 | 33 | \$99,330 | \$17,820 |
| RCK: FC 2Gb Storage, Standard, Optical/Copper I/F | JBD2011-SA | | 1 | \$3,214 | 22 | \$70,708 | \$12,672 |
| CTRL: Symmetric Disk Virt. 2x2GHz, 512MB Mem | RMM20103-ELS | | 1 | \$4,559 | 11 | \$50,149 | \$12,804 |
| CTRL: USS, Fibre Channel HBA, 1-Port, 64-bit PCI | RMM20701-TAR | | 1 | \$1,805 | 33 | \$59,565 | \$15,048 |
| APP: Unisys Storage Sentinel 2200 SDV Software | USS10300-SW | | 1 | \$5,472 | 1 | \$5,472 | \$4,068 |
| APP: Storage Sentinel SDV SW, 20TB License | USS20320-LIC | | 1 | \$37,484 | 1 | \$37,484 | |
| CBL: FC, Copper, HSDC2 Conn's, 0.3m | JBD20003-CCL | | 1 | \$54 | 33 | \$1,782 | |
| CBL: FC, Optical, LC->LC Conn's, 10m + 10% Spares * | GCFAZLL10 | 5 | 5 | \$42 | 47 | \$1,974 | Spared |
| RCK: Rack Mount Kit, Disk Enclosure | JBD2001-RMK | | 1 | \$190 | 55 | \$10,450 | |
| CTRL: DPE: 2 RAID Cntrl, 1GB Cache ea., 0 Disk | CX200-DPE | | 1 | \$19,000 | 1 | \$19,000 | \$2,988 |
| RCK: FC 2Gb Storage,Optical I/F, DAE | CX600-DAE | | 1 | \$7,600 | 1 | \$7,600 | \$1,212 |
| SYS MGT: Storage, Navisphere Agent | CXN600-WIN | | 1 | \$646 | 1 | \$646 | \$132 |
| SYS MGT: Storage, Navisphere Manager | CX2002-DPE | | 1 | \$1,549 | 1 | \$1,549 | \$312 |
| SYS MGT: Storage, Navisphere Manager | CX200-DAE | | 1 | \$7,695 | 1 | \$7,695 | \$1,524 |
| SWTCH: Switch, 10/100/1000Mb Ethernet | GS516-T16 | | 1 | \$2,850 | 1 | \$2,850 | |
| CBL: Ethernet, Cat5e, RJ45 Conn's, 10ft + 10% Spares * | GCPO888910 | 5 | 5 | \$2 | 15 | \$30 | Spared |
| SWTCH: Switch, 8-port KVM | SWC81-SXR | | 1 | \$1,520 | 3 | \$4,560 | \$3,348 |
| CBL: Cable, KVM, 12 foot | CBL121-SWC | | 1 | \$143 | 19 | \$2,717 | |
| KBD: Keyboard & Drawer, Rackmount | KBR28301-SXR | | 1 | \$333 | 2 | \$666 | |
| MON: Display, Rackmount LCD | MON2145-LCD | | 1 | \$2,565 | 2 | \$5,130 | |
| PWR: Distribution Strip, 9-Plug, 220V | SFR9-PWR | | 1 | \$162 | 18 | \$2,916 | |
| CBL: Power, U.S. (Domestic), C20 - L6-20P | USE1936-LC6 | | 1 | \$86 | 18 | \$1,548 | |
| CAB: 36U x 19" x 41" Open Front Cabinet | HRT361941-OFT | | 1 | \$1,425 | 6 | \$8,550 | |
| | | | | Storage Subtotal | | \$747,143 | \$71,928 |
| Client Hardware: | | | | | | | |
| SYS: ES3020L w/ 1x 2.4GHz Proc., 0MB Mem | ESL30202-240 | | 1 | \$1,204 | 8 | \$9,632 | \$6,336 |
| PROC:1x 2.4GHz Intel Xeon/512KB Cache | CPL3020242-512 | | 1 | \$532 | 8 | \$4,256 | |
| MEM: 1GB, 2x 512KB DIMMs DDR SDRAM | DIM3020022-1GB | | 1 | \$799 | 8 | \$6,392 | |
| RCK: ESL2026 Disk Backpanel, 1x4 | HBP3020101-51 | | 1 | \$265 | 8 | \$2,120 | |
| DISK: 18GB 15Krpm U320 3.5 Internal | HDP18115-DC4 | | 1 | \$333 | 8 | \$2,664 | |
| RCK: ES3020L Universal Rack Kit | ESL3020-VRL | | 1 | \$333 | 8 | \$2,664 | |
| CTRL: VI Connection HBA , 1-Port, PCI + 10% Spares * | QLA2350-BK | 3 | 4 | \$1,559 | 8 | \$12,472 | Spared |
| Client Software: | | | | | | | |
| O/S: Windows Server 2003, Standard Edition | P73-00295 | 2 | 2 | \$738 | 8 | \$5,904 | ** Inc. above |
| ACC: Visual C++ Standard | 254-00170 | 2 | 2 | \$109 | 1 | \$109 | ** Inc. above |
| | | | | Client Subtotal | | \$46,213 | \$6,336 |
| | | | | Total | | \$1,437,267 | \$134,772 |
| | | | | | | (\$187,058) | |
| Computer Resolutions Inc. 13% Large Volume Discount | | | | | | | |

Notes:

1. 3rd Party Brand & Pricing: 1 = CRI Product Price, Unisys Maintenance Price
2 = Microsoft 3 = Qlogic 4 = Compuview 5 = GoCables
2. HW & SW maintenance figured at 24 x 7 w/ 4 hr. max. response time for spares.
3. * = 10% spare disks added in place of onsite service.

Three Year Cost of Ownership: \$1,384,981
tpmC Rating: 309,036.53
\$ / tpmC: \$4.49

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.

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Document Structure

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

This report is submitted to satisfy the specification's requirement for full disclosure. It documents the compliance of the benchmark implementation and execution reported for the Unisys ES7000 Aries 420 Enterprise Server (16P) using Microsoft SQL Server 2000 Enterprise Edition (64-bit) on Microsoft Windows Server 2003, Datacenter Edition for 64-bit Itanium-based Systems.

TPC Benchmark C Overview

The Transaction Processing Performance Council (TPC) developed The TPC Benchmark™ C Standard Specification Revision 5.1. It is the intent of the TPC to develop a suite of benchmarks to measure the performance of computer systems executing a wide range of applications. Unisys and Microsoft Corporations are active participants in the TPC to define and develop such a suite of benchmarks.

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

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

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

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

0.1. Order and Titles

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

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

0.2. Executive Summary Statement

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

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

0.3. Numerical Quantities Summary

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

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

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

0.4. Application Code Disclosure

The applicable program (as defined in Clause 2.1.7) must be disclosed. This includes, but is not limited to, the code implementing the five transactions and the terminal input and output functions. (8.1.1.4)

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

0.5. Benchmark Sponsor

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

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

0.6. Parameter Settings

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

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

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

0.7. Configuration Diagrams

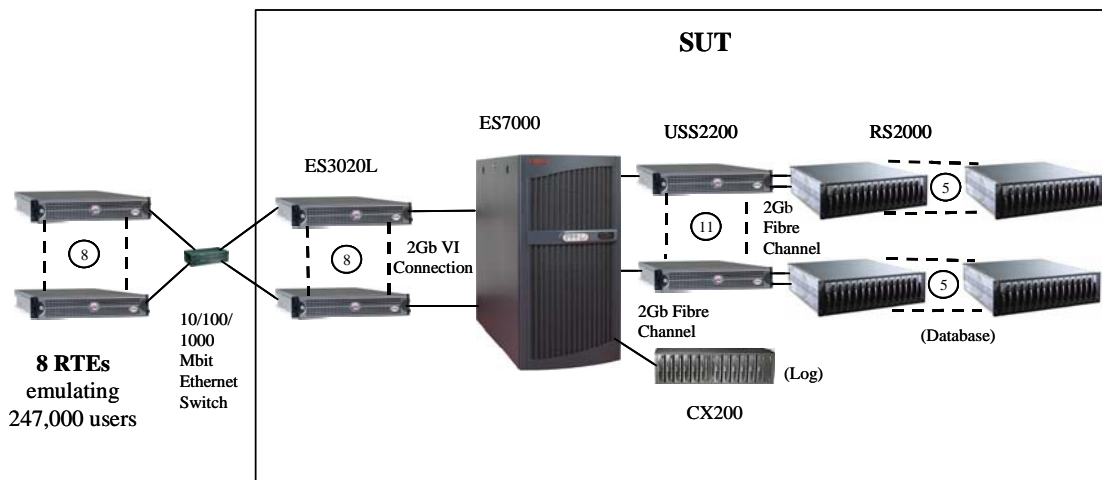
Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences. This includes, but is not limited to: (8.1.1.7)

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

The Remote Terminal Emulator (RTE) software used for these TPC-C tests is proprietary to Unisys. The benchmarked configuration of the RTE and Unisys ES7000 Aries 420 Enterprise Server (16P) is illustrated in Figure 0.1. Tables 4.3 and 4.5 contain a detailed explanation of the disk configuration.

The priced configuration for the Unisys ES7000 Aries 420 Enterprise Server (16P) is shown in Figure 0.2.

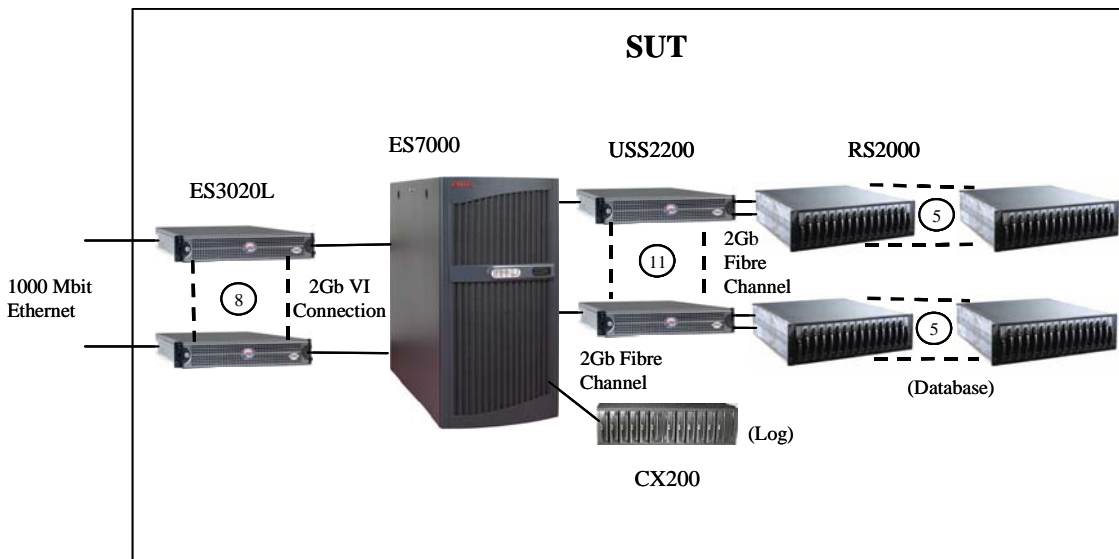
Figure 0.1: Benchmarked Configuration



**ES7000 Aries 420
Enterprise Server**
 16 x 1.5GHz Intel® Itanium® 2
 Processor w/ 6MB iL3 cache,
 128 GB memory,
 2 x 36GB SCSI disks,
 1 x PCI SCSI RAID controller,
 7x PCI Fibre Channel controllers,
 8 x PCI VI controllers

**Storage
USS2200/RS2000 & CX200**
 770 x 18GB + 24 x 73GB
 Hot-Pluggable,
 External Fibre Channel disks,
 13 x FC RAID controllers

Figure 0.2: Priced Configuration



**ES7000 Aries 420
Enterprise Server**
 16 x 1.5GHz Intel® Itanium® 2
 Processor w/ 6MB iL3 cache,
 128 GB memory,
 2 x 36GB SCSI disks,
 1 x PCI SCSI RAID controller,
 7 x PCI Fibre Channel controllers,
 8 x PCI VI controllers

**Storage
USS2200/RS2000 & CX200**
 770 x 18GB + 24 x 73GB
 Hot-Pluggable,
 External Fibre Channel disks,
 13 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, which was independently audited. The initial population of the database was performed by the loader program from the Microsoft TPC-C toolkit (V4.51), and was also independently audited. Furthermore, the auditor sampled various initial and runtime distributions produced by this implementation to verify correctness.

2.2. Input/Output Screen Layout

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

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

2.3. Priced Terminal Feature Verification

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

This was verified by the auditor.

2.4. Presentation Managers or Intelligent Terminal

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

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

2.5. Transaction Statistics

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

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

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

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

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

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

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

Table 5.4 in Section 5 contains all these statistics.

2.6. Queuing Mechanism of Delivery

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

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

3.

Clause 3: Transaction & System Properties

3.1. Transaction System Properties (ACID)

The results of the ACID tests must be disclosed along with a description of how the ACID requirements were met. This includes disclosing which case was followed for the execution of Isolation Test 7. (8.1.4.1)

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

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

3.2. Atomicity

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

3.2.1. Completed Transaction

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

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

3.2.2. Aborted Transactions

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

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

3.3. Consistency

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

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

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

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

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

3.4. Isolation

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

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

3.5. Durability

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

Three durability tests were executed to satisfy the requirements of the specification. The tests for loss of memory and instantaneous interruption were combined and performed with a fully scaled database with all emulated users. The loss of log and loss of data tests were performed on the same database with 25,590 emulated users. To the best of our knowledge, these tests prove that the fully scaled configuration used for the throughput test would also meet all durability tests.

3.5.1. Loss of Log Disk and Loss of Data Disk

The following steps were taken with only 25,590 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 25,590 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 SQL server.
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. Moreover, the counts were matched with those obtained in step 12.

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 24,700 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 | 24,700 |
| District | 247,000 |
| Customer | 741,000,000 |
| History | 741,000,000 |
| Order | 741,000,000 |
| New-Order | 222,300,000 |
| Order Line | 7,409,978,444 |
| Stock | 2,470,000,000 |
| Item | 100,000 |

No rows of the warehouse table were inactive (deleted) 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 770 18GB disks and the transaction log over 12 mirrored pairs of 73GB disks for the benchmark configuration. In addition, there were two 36GB disk in the host server containing Windows Server 2003, Datacenter Edition for 64-bit Itanium-based Systems and SQL Server 2000 (64-bit) 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. The tested and priced disk configurations were identical.

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 2000 (64-bit) 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 4.4: ES7000 Server HBA-PCI Slot Map

| | | | | | | | | | |
|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|----------------------|-------------|---------------------|-----------------------|
| 4x Itanium 2, 1.5GHz | 4x Itanium 2, 1.5GHz | PCI Bridge-0-1 | | | | PCI Bridge-0-0 | | | |
| | | Bus | | Bus | | Bus | | Bus | |
| | | 7 | 6 | 5 | 4 | 7 | 6 | 5 | 4 |
| | | Qlogic 2350 | Qlogic 2350 | Qlogic 2350 | Qlogic 2350 | | | | |
| | | | | | FC HBA #7 - Log | | | FC HBA #2 - USS3, 4 | FC HBA #1 - USS1, 2 |
| | | Bus | | | | Bus | | | |
| | | 3 | 2 | 1 | 0 | 3 | 2 | 1 | 0 |
| | | FC HBA #6 - USS11 | FC HBA #5 - USS9, 10 | | | Qlogic 2350 | Qlogic 2350 | Qlogic 2350 | Qlogic 2350 |
| | | | | FC HBA #4 - USS7, 8 | FC HBA #3 - USS5, 6 | | | Ethernet 1000XT | |
| | | | | | | | | | SCSI Raid Cntr (boot) |
| | | 32GB | | | | 32GB | | | |
| | | 4x Itanium 2, 1.5GHz | | | | 4x Itanium 2, 1.5GHz | | | |

Table 4.5: Disk Management Configuration

| Disk Management Configuration | | | | |
|-----------------------------------|---------------|-----------------------------|-------------|------------------|
| System Disks | Logical Disk# | Partition 1 Drive Letter | File System | |
| Two 36 GB Disk mirrored CD-ROM | 0 CD-ROM 0 | C: System D: | NTFS | Capacity=33.47GB |

| Disk Management Configuration | | | | | | |
|-------------------------------|-----------|------------------|--|--|--|--|
| USS | HBA | Logical Disk# | Partition 1 Size=6.16GB FS=Raw Junction Point | Partition 2 Size=9.38GB FS=Raw Junction Point | Partition 3 Size=4.77GB FS=Raw Junction Point | Partition 4 Size=99.19GB FS=NTFS Junction Point |
| 1 | 1, port1 | 1 | C:\BigDb\cabA\ord1 | C:\BigDb\cabA\cs1 | C:\BigDb\cabA\misc1 | Unallocated |
| | | 2 | C:\BigDb\cabA\ord2 | C:\BigDb\cabA\cs2 | C:\BigDb\cabA\misc2 | Unallocated |
| | | 3 | C:\BigDb\cabA\ord3 | C:\BigDb\cabA\cs3 | C:\BigDb\cabA\misc3 | Unallocated |
| | | 4 | C:\BigDb\cabA\ord4 | C:\BigDb\cabA\cs4 | C:\BigDb\cabA\misc4 | Unallocated |
| | | 5 | C:\BigDb\cabA\ord5 | C:\BigDb\cabA\cs5 | C:\BigDb\cabA\misc5 | C:\BigDb\dbBackups\backupA5 |
| | | 6 | C:\BigDb\cabA\ord6 | C:\BigDb\cabA\cs6 | C:\BigDb\cabA\misc6 | C:\BigDb\dbBackups\backupA6 |
| | | 7 | C:\BigDb\cabA\ord7 | C:\BigDb\cabA\cs7 | C:\BigDb\cabA\misc7 | Unallocated |
| | | 8 | C:\BigDb\cabA\ord8 | C:\BigDb\cabA\cs8 | C:\BigDb\cabA\misc8 | Unallocated |
| | | 9 | C:\BigDb\cabA\ord9 | C:\BigDb\cabA\cs9 | C:\BigDb\cabA\misc9 | Unallocated |
| | | 10 | C:\BigDb\cabA\ord10 | C:\BigDb\cabA\cs10 | C:\BigDb\cabA\misc10 | Unallocated |
| 2 | 1, port2 | 11 | C:\BigDb\cabB\ord1 | C:\BigDb\cabB\cs1 | C:\BigDb\cabB\misc1 | Unallocated |
| | | 12 | C:\BigDb\cabB\ord2 | C:\BigDb\cabB\cs2 | C:\BigDb\cabB\misc2 | Unallocated |
| | | 13 | C:\BigDb\cabB\ord3 | C:\BigDb\cabB\cs3 | C:\BigDb\cabB\misc3 | Unallocated |
| | | 14 | C:\BigDb\cabB\ord4 | C:\BigDb\cabB\cs4 | C:\BigDb\cabB\misc4 | Unallocated |
| | | 15 | C:\BigDb\cabB\ord5 | C:\BigDb\cabB\cs5 | C:\BigDb\cabB\misc5 | C:\BigDb\dbBackups\backupB5 |
| | | 16 | C:\BigDb\cabB\ord6 | C:\BigDb\cabB\cs6 | C:\BigDb\cabB\misc6 | C:\BigDb\dbBackups\backupB6 |
| | | 17 | C:\BigDb\cabB\ord7 | C:\BigDb\cabB\cs7 | C:\BigDb\cabB\misc7 | Unallocated |
| | | 18 | C:\BigDb\cabB\ord8 | C:\BigDb\cabB\cs8 | C:\BigDb\cabB\misc8 | Unallocated |
| | | 19 | C:\BigDb\cabB\ord9 | C:\BigDb\cabB\cs9 | C:\BigDb\cabB\misc9 | Unallocated |
| | | 20 | C:\BigDb\cabB\ord10 | C:\BigDb\cabB\cs10 | C:\BigDb\cabB\misc10 | Unallocated |
| 3 | 2, port 1 | 21 | C:\BigDb\cabC\ord1 | C:\BigDb\cabC\cs1 | C:\BigDb\cabC\misc1 | Unallocated |
| | | 22 | C:\BigDb\cabC\ord2 | C:\BigDb\cabC\cs2 | C:\BigDb\cabC\misc2 | Unallocated |
| | | 23 | C:\BigDb\cabC\ord3 | C:\BigDb\cabC\cs3 | C:\BigDb\cabC\misc3 | Unallocated |
| | | 24 | C:\BigDb\cabC\ord4 | C:\BigDb\cabC\cs4 | C:\BigDb\cabC\misc4 | Unallocated |
| | | 25 | C:\BigDb\cabC\ord5 | C:\BigDb\cabC\cs5 | C:\BigDb\cabC\misc5 | C:\BigDb\dbBackups\backupC5 |
| | | 26 | C:\BigDb\cabC\ord6 | C:\BigDb\cabC\cs6 | C:\BigDb\cabC\misc6 | C:\BigDb\dbBackups\backupC6 |
| | | 27 | C:\BigDb\cabC\ord7 | C:\BigDb\cabC\cs7 | C:\BigDb\cabC\misc7 | Unallocated |
| | | 28 | C:\BigDb\cabC\ord8 | C:\BigDb\cabC\cs8 | C:\BigDb\cabC\misc8 | Unallocated |
| | | 29 | C:\BigDb\cabC\ord9 | C:\BigDb\cabC\cs9 | C:\BigDb\cabC\misc9 | Unallocated |
| | | 30 | C:\BigDb\cabC\ord10 | C:\BigDb\cabC\cs10 | C:\BigDb\cabC\misc10 | Unallocated |
| 4 | 2, port 2 | 31 | C:\BigDb\cabD\ord1 | C:\BigDb\cabD\cs1 | C:\BigDb\cabD\misc1 | Unallocated |
| | | 32 | C:\BigDb\cabD\ord2 | C:\BigDb\cabD\cs2 | C:\BigDb\cabD\misc2 | Unallocated |
| | | 33 | C:\BigDb\cabD\ord3 | C:\BigDb\cabD\cs3 | C:\BigDb\cabD\misc3 | Unallocated |
| | | 34 | C:\BigDb\cabD\ord4 | C:\BigDb\cabD\cs4 | C:\BigDb\cabD\misc4 | Unallocated |
| | | 35 | C:\BigDb\cabD\ord5 | C:\BigDb\cabD\cs5 | C:\BigDb\cabD\misc5 | C:\BigDb\dbBackups\backupD5 |
| | | 36 | C:\BigDb\cabD\ord6 | C:\BigDb\cabD\cs6 | C:\BigDb\cabD\misc6 | C:\BigDb\dbBackups\backupD6 |
| | | 37 | C:\BigDb\cabD\ord8 | C:\BigDb\cabD\cs8 | C:\BigDb\cabD\misc7 | Unallocated |
| | | 38 | C:\BigDb\cabD\ord9 | C:\BigDb\cabD\cs9 | C:\BigDb\cabD\misc8 | Unallocated |
| | | 39 | C:\BigDb\cabD\ord10 | C:\BigDb\cabD\cs10 | C:\BigDb\cabD\misc9 | Unallocated |
| | | 40 | C:\BigDb\cabD\ord12 | C:\BigDb\cabD\cs12 | C:\BigDb\cabD\misc10 | Unallocated |
| 5 | 3, port1 | 41 | C:\BigDb\cabE\ord1 | C:\BigDb\cabE\cs1 | C:\BigDb\cabE\misc1 | Unallocated |
| | | 42 | C:\BigDb\cabE\ord2 | C:\BigDb\cabE\cs2 | C:\BigDb\cabE\misc2 | Unallocated |
| | | 43 | C:\BigDb\cabE\ord3 | C:\BigDb\cabE\cs3 | C:\BigDb\cabE\misc3 | Unallocated |
| | | 44 | C:\BigDb\cabE\ord4 | C:\BigDb\cabE\cs4 | C:\BigDb\cabE\misc4 | Unallocated |
| | | 45 | C:\BigDb\cabE\ord5 | C:\BigDb\cabE\cs5 | C:\BigDb\cabE\misc5 | C:\BigDb\dbBackups\backupE5 |
| | | 46 | C:\BigDb\cabE\ord6 | C:\BigDb\cabE\cs6 | C:\BigDb\cabE\misc6 | C:\BigDb\dbBackups\backupE6 |
| | | 47 | C:\BigDb\cabE\ord7 | C:\BigDb\cabE\cs7 | C:\BigDb\cabE\misc7 | Unallocated |
| | | 48 | C:\BigDb\cabE\ord8 | C:\BigDb\cabE\cs8 | C:\BigDb\cabE\misc8 | Unallocated |
| | | 49 | C:\BigDb\cabE\ord9 | C:\BigDb\cabE\cs9 | C:\BigDb\cabE\misc9 | Unallocated |
| | | 50 | C:\BigDb\cabE\ord10 | C:\BigDb\cabE\cs10 | C:\BigDb\cabE\misc10 | Unallocated |

Table 4.5: Disk Management Configuration (Continued)

| Disk Management Configuration | | | | | | | |
|-------------------------------|-----------|---------------|-----------------------|-----------------------|-----------------------|-----------------------------|----------------|
| USS | HBA | Logical Disk# | Partition 1 | Partition 2 | Partition 3 | Partition 4 | Junction Point |
| | | | Size=6.16GB FS=Raw | Size=9.38GB FS=Raw | Size=4.77GB FS=Raw | Size=99.19GB FS=NTFS | |
| 6 | 3, port 2 | 51 | C:\BigDb\cabF\ord1 | C:\BigDb\cabF\cs1 | C:\BigDb\cabF\misc1 | Unallocated | |
| | | 52 | C:\BigDb\cabF\ord2 | C:\BigDb\cabF\cs2 | C:\BigDb\cabF\misc2 | Unallocated | |
| | | 53 | C:\BigDb\cabF\ord3 | C:\BigDb\cabF\cs3 | C:\BigDb\cabF\misc3 | Unallocated | |
| | | 54 | C:\BigDb\cabF\ord4 | C:\BigDb\cabF\cs4 | C:\BigDb\cabF\misc4 | Unallocated | |
| | | 55 | C:\BigDb\cabF\ord5 | C:\BigDb\cabF\cs5 | C:\BigDb\cabF\misc5 | C:\BigDb\dbBackups\backupF5 | |
| | | 56 | C:\BigDb\cabF\ord6 | C:\BigDb\cabF\cs6 | C:\BigDb\cabF\misc6 | C:\BigDb\dbBackups\backupF6 | |
| | | 57 | C:\BigDb\cabF\ord7 | C:\BigDb\cabF\cs7 | C:\BigDb\cabF\misc7 | Unallocated | |
| | | 58 | C:\BigDb\cabF\ord8 | C:\BigDb\cabF\cs8 | C:\BigDb\cabF\misc8 | Unallocated | |
| | | 59 | C:\BigDb\cabF\ord9 | C:\BigDb\cabF\cs9 | C:\BigDb\cabF\misc9 | Unallocated | |
| | | 60 | C:\BigDb\cabF\ord10 | C:\BigDb\cabF\cs10 | C:\BigDb\cabF\misc10 | Unallocated | |
| 7 | 4, port 1 | 61 | C:\BigDb\cabG\ord1 | C:\BigDb\cabG\cs1 | C:\BigDb\cabG\misc1 | Unallocated | |
| | | 62 | C:\BigDb\cabG\ord2 | C:\BigDb\cabG\cs2 | C:\BigDb\cabG\misc2 | Unallocated | |
| | | 63 | C:\BigDb\cabG\ord3 | C:\BigDb\cabG\cs3 | C:\BigDb\cabG\misc3 | Unallocated | |
| | | 64 | C:\BigDb\cabG\ord4 | C:\BigDb\cabG\cs4 | C:\BigDb\cabG\misc4 | Unallocated | |
| | | 65 | C:\BigDb\cabG\ord5 | C:\BigDb\cabG\cs5 | C:\BigDb\cabG\misc5 | C:\BigDb\dbBackups\backupG5 | |
| | | 66 | C:\BigDb\cabG\ord6 | C:\BigDb\cabG\cs6 | C:\BigDb\cabG\misc6 | C:\BigDb\dbBackups\backupG6 | |
| | | 67 | C:\BigDb\cabG\ord7 | C:\BigDb\cabG\cs7 | C:\BigDb\cabG\misc7 | Unallocated | |
| | | 68 | C:\BigDb\cabG\ord8 | C:\BigDb\cabG\cs8 | C:\BigDb\cabG\misc8 | Unallocated | |
| | | 69 | C:\BigDb\cabG\ord9 | C:\BigDb\cabG\cs9 | C:\BigDb\cabG\misc9 | Unallocated | |
| | | 70 | C:\BigDb\cabG\ord10 | C:\BigDb\cabG\cs10 | C:\BigDb\cabG\misc10 | Unallocated | |
| 8 | 4, port 2 | 71 | C:\BigDb\cabH\ord1 | C:\BigDb\cabH\cs1 | C:\BigDb\cabH\misc1 | Unallocated | |
| | | 72 | C:\BigDb\cabH\ord2 | C:\BigDb\cabH\cs2 | C:\BigDb\cabH\misc2 | Unallocated | |
| | | 73 | C:\BigDb\cabH\ord3 | C:\BigDb\cabH\cs3 | C:\BigDb\cabH\misc3 | Unallocated | |
| | | 74 | C:\BigDb\cabH\ord4 | C:\BigDb\cabH\cs4 | C:\BigDb\cabH\misc4 | Unallocated | |
| | | 75 | C:\BigDb\cabH\ord5 | C:\BigDb\cabH\cs5 | C:\BigDb\cabH\misc5 | C:\BigDb\dbBackups\backupH5 | |
| | | 76 | C:\BigDb\cabH\ord6 | C:\BigDb\cabH\cs6 | C:\BigDb\cabH\misc6 | C:\BigDb\dbBackups\backupH6 | |
| | | 77 | C:\BigDb\cabH\ord7 | C:\BigDb\cabH\cs7 | C:\BigDb\cabH\misc7 | Unallocated | |
| | | 78 | C:\BigDb\cabH\ord8 | C:\BigDb\cabH\cs8 | C:\BigDb\cabH\misc8 | Unallocated | |
| | | 79 | C:\BigDb\cabH\ord9 | C:\BigDb\cabH\cs9 | C:\BigDb\cabH\misc9 | Unallocated | |
| | | 80 | C:\BigDb\cabH\ord10 | C:\BigDb\cabH\cs10 | C:\BigDb\cabH\misc10 | Unallocated | |
| 9 | 5, port1 | 81 | C:\BigDb\cabI\ord1 | C:\BigDb\cabI\cs1 | C:\BigDb\cabI\misc1 | Unallocated | |
| | | 82 | C:\BigDb\cabI\ord2 | C:\BigDb\cabI\cs2 | C:\BigDb\cabI\misc2 | Unallocated | |
| | | 83 | C:\BigDb\cabI\ord3 | C:\BigDb\cabI\cs3 | C:\BigDb\cabI\misc3 | Unallocated | |
| | | 84 | C:\BigDb\cabI\ord4 | C:\BigDb\cabI\cs4 | C:\BigDb\cabI\misc4 | Unallocated | |
| | | 85 | C:\BigDb\cabI\ord5 | C:\BigDb\cabI\cs5 | C:\BigDb\cabI\misc5 | C:\BigDb\dbBackups\backupI5 | |
| | | 86 | C:\BigDb\cabI\ord6 | C:\BigDb\cabI\cs6 | C:\BigDb\cabI\misc6 | C:\BigDb\dbBackups\backupI6 | |
| | | 87 | C:\BigDb\cabI\ord7 | C:\BigDb\cabI\cs7 | C:\BigDb\cabI\misc7 | Unallocated | |
| | | 88 | C:\BigDb\cabI\ord8 | C:\BigDb\cabI\cs8 | C:\BigDb\cabI\misc8 | Unallocated | |
| | | 89 | C:\BigDb\cabI\ord9 | C:\BigDb\cabI\cs9 | C:\BigDb\cabI\misc9 | Unallocated | |
| | | 90 | C:\BigDb\cabI\ord10 | C:\BigDb\cabI\cs10 | C:\BigDb\cabI\misc10 | Unallocated | |
| 10 | 5, port2 | 91 | C:\BigDb\cabJ\ord1 | C:\BigDb\cabJ\cs1 | C:\BigDb\cabJ\misc1 | Unallocated | |
| | | 92 | C:\BigDb\cabJ\ord2 | C:\BigDb\cabJ\cs2 | C:\BigDb\cabJ\misc2 | Unallocated | |
| | | 93 | C:\BigDb\cabJ\ord3 | C:\BigDb\cabJ\cs3 | C:\BigDb\cabJ\misc3 | Unallocated | |
| | | 94 | C:\BigDb\cabJ\ord4 | C:\BigDb\cabJ\cs4 | C:\BigDb\cabJ\misc4 | Unallocated | |
| | | 95 | C:\BigDb\cabJ\ord5 | C:\BigDb\cabJ\cs5 | C:\BigDb\cabJ\misc5 | C:\BigDb\dbBackups\backupJ5 | |
| | | 96 | C:\BigDb\cabJ\ord6 | C:\BigDb\cabJ\cs6 | C:\BigDb\cabJ\misc6 | C:\BigDb\dbBackups\backupJ6 | |
| | | 97 | C:\BigDb\cabJ\ord7 | C:\BigDb\cabJ\cs7 | C:\BigDb\cabJ\misc7 | Unallocated | |
| | | 98 | C:\BigDb\cabJ\ord8 | C:\BigDb\cabJ\cs8 | C:\BigDb\cabJ\misc8 | Unallocated | |
| | | 99 | C:\BigDb\cabJ\ord9 | C:\BigDb\cabJ\cs9 | C:\BigDb\cabJ\misc9 | Unallocated | |
| | | 100 | C:\BigDb\cabJ\ord10 | C:\BigDb\cabJ\cs10 | C:\BigDb\cabJ\misc10 | Unallocated | |
| 11 | 6, port1 | 101 | C:\BigDb\cabK\ord1 | C:\BigDb\cabK\cs1 | C:\BigDb\cabK\misc1 | Unallocated | |
| | | 102 | C:\BigDb\cabK\ord2 | C:\BigDb\cabK\cs2 | C:\BigDb\cabK\misc2 | Unallocated | |
| | | 103 | C:\BigDb\cabK\ord3 | C:\BigDb\cabK\cs3 | C:\BigDb\cabK\misc3 | Unallocated | |
| | | 104 | C:\BigDb\cabK\ord4 | C:\BigDb\cabK\cs4 | C:\BigDb\cabK\misc4 | Unallocated | |
| | | 105 | C:\BigDb\cabK\ord5 | C:\BigDb\cabK\cs5 | C:\BigDb\cabK\misc5 | C:\BigDb\dbBackups\backupK5 | |
| | | 106 | C:\BigDb\cabK\ord6 | C:\BigDb\cabK\cs6 | C:\BigDb\cabK\misc6 | C:\BigDb\dbBackups\backupK6 | |
| | | 107 | C:\BigDb\cabK\ord7 | C:\BigDb\cabK\cs7 | C:\BigDb\cabK\misc7 | Unallocated | |
| | | 108 | C:\BigDb\cabK\ord8 | C:\BigDb\cabK\cs8 | C:\BigDb\cabK\misc8 | Unallocated | |
| | | 109 | C:\BigDb\cabK\ord9 | C:\BigDb\cabK\cs9 | C:\BigDb\cabK\misc9 | Unallocated | |
| | | 110 | C:\BigDb\cabK\ord10 | C:\BigDb\cabK\cs10 | C:\BigDb\cabK\misc10 | Unallocated | |

| CX200 | SP | Logical Disk# | Partition 1 | File System | Capacity |
|-------|----|---------------|--------------------------|-------------|-----------|
| | | | Junction Point | | |
| 1 | A | 111 | C:\BigDb\dbLogs\tpcclog1 | Raw | 399.51 GB |
| 2 | A | 112 | C:\BigDb\dbLogs\tpcclog2 | Raw | 363.23 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 309,036.53.

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 | 0.31 | 5.25 | 0.50 |
| Payment | 0.28 | 5.27 | 0.46 |
| Order Status | 0.29 | 5.09 | 0.48 |
| Delivery (interactive) | 0.22 | 3.30 | 0.39 |
| Delivery (deferred) | 0.14 | 3.75 | 0.19 |
| Stock-Level | 0.59 | 4.48 | 0.95 |
| Menu | 0.22 | 3.31 | 0.39 |

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

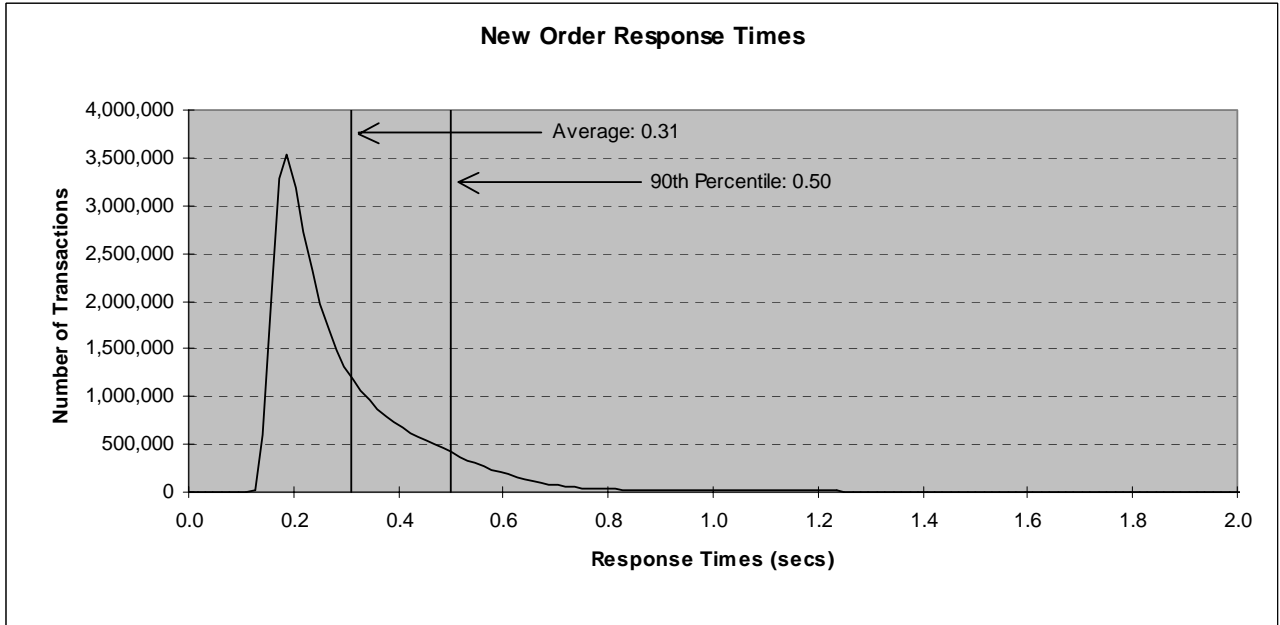


Figure 5.2: Payment Response Time Distribution

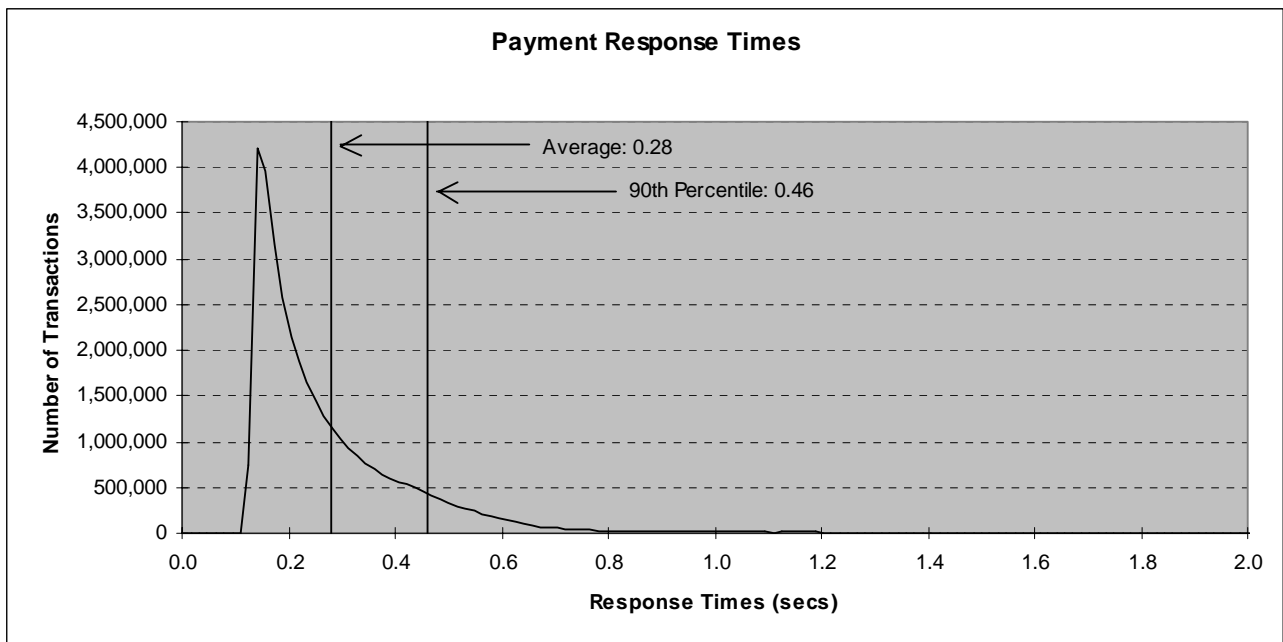


Figure 5.3: Order Status Response Time Distribution

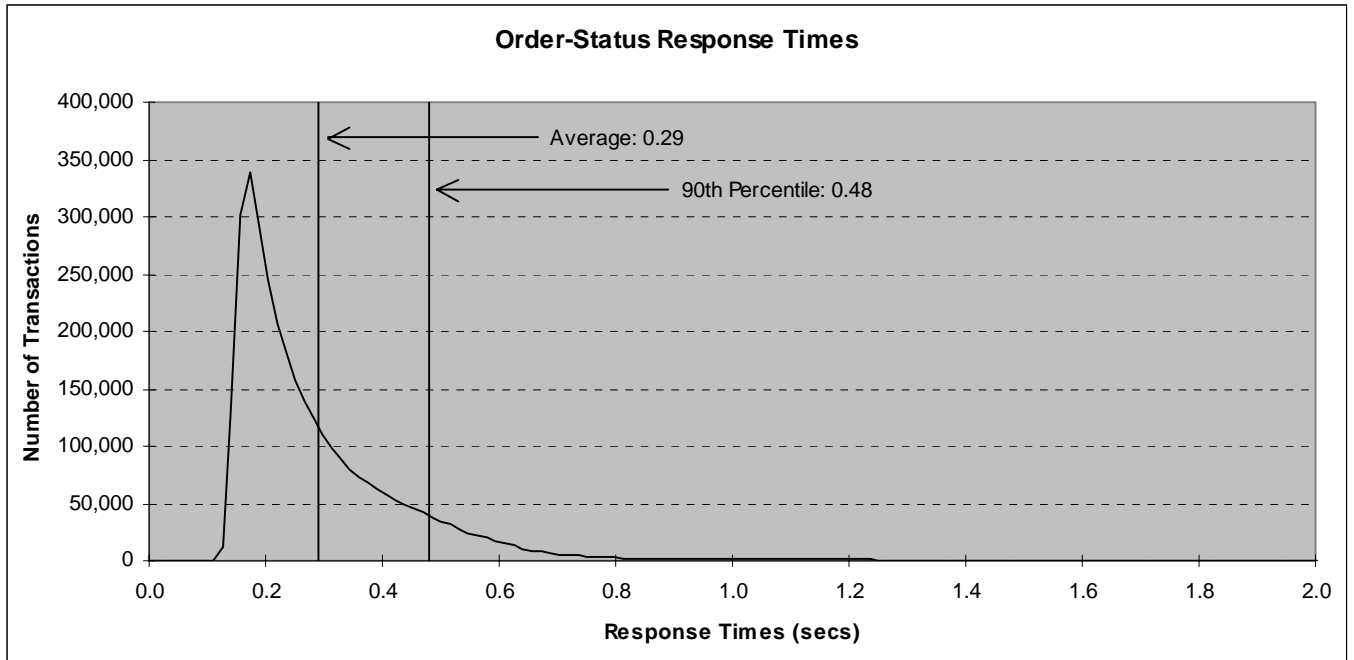


Figure 5.4: Delivery Response Time Distribution

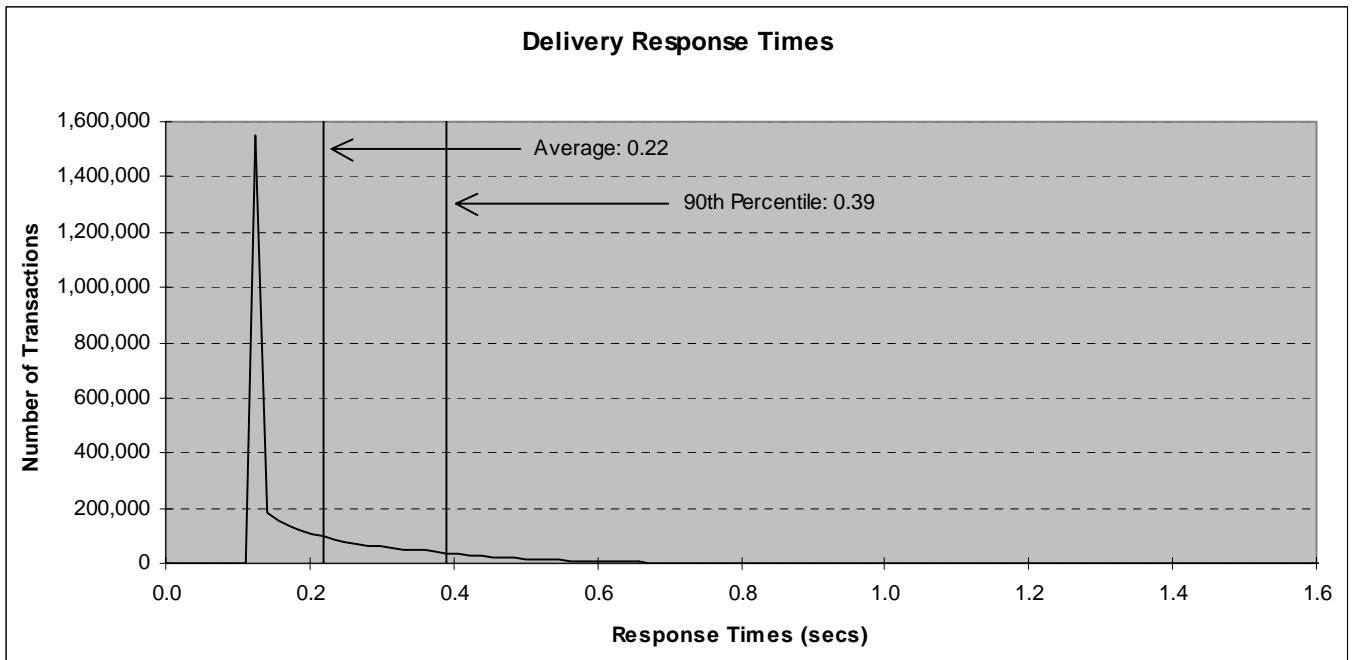
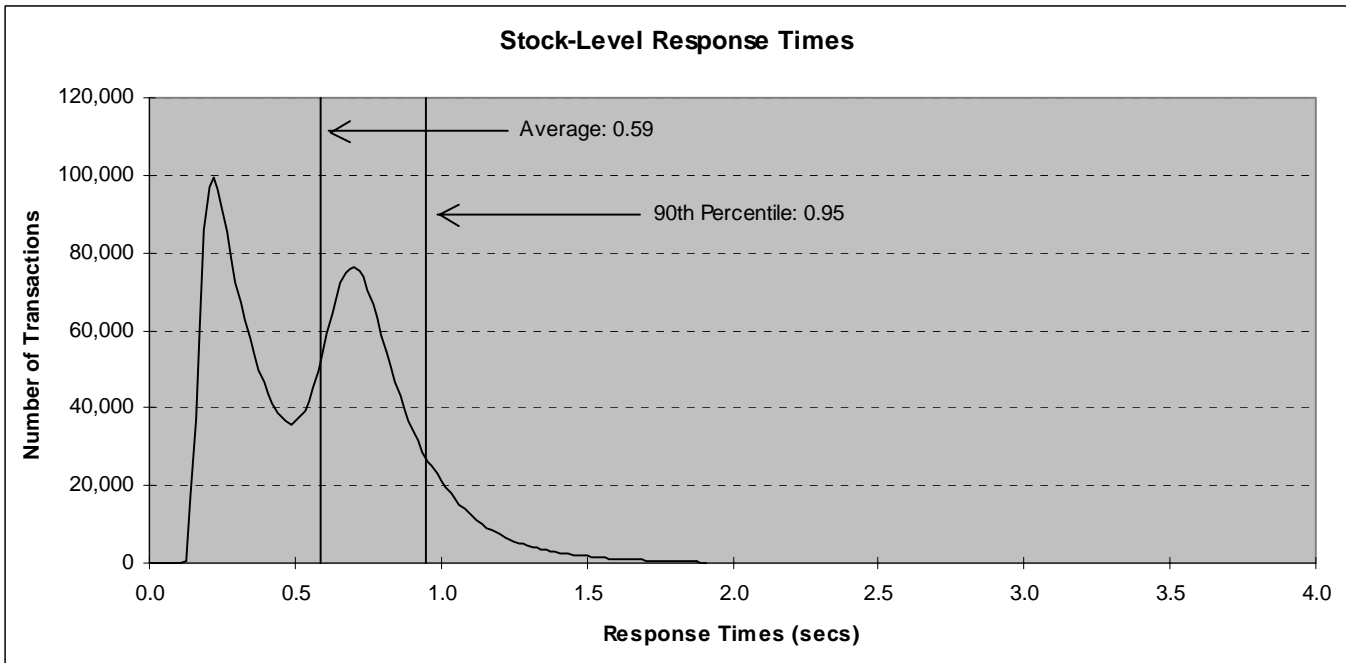


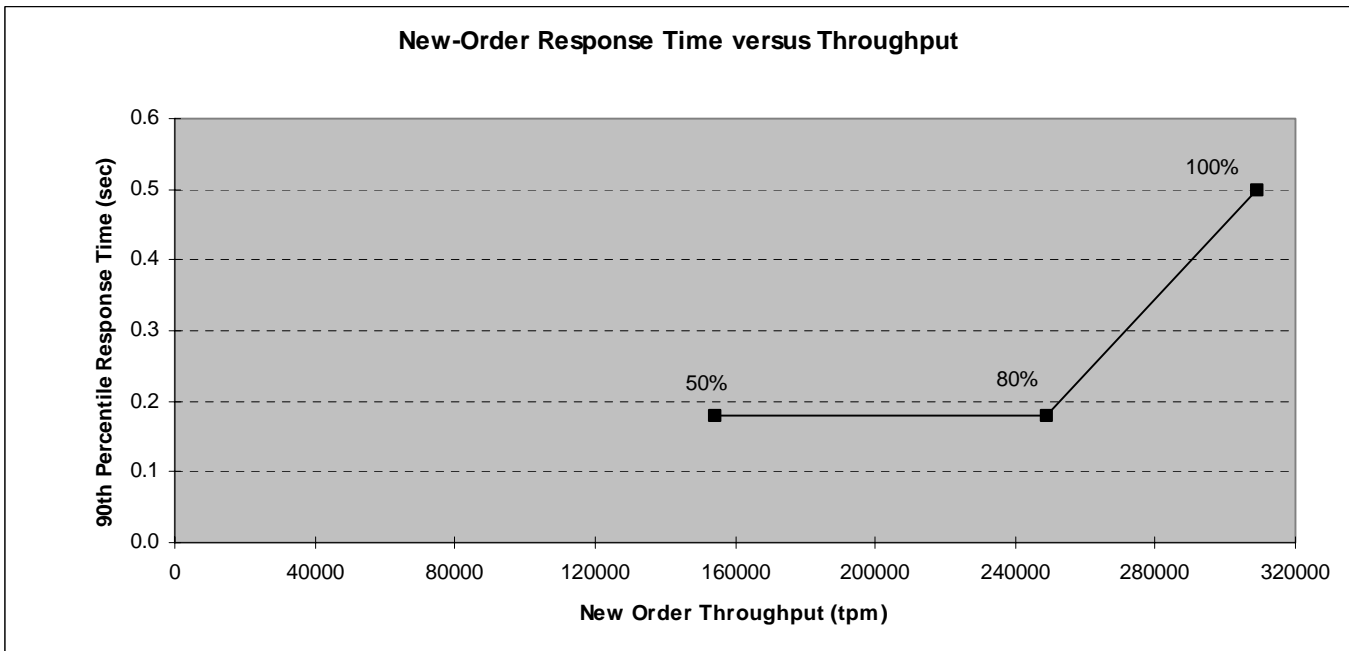
Figure 5.5: Stock Level Response Time Distribution



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)

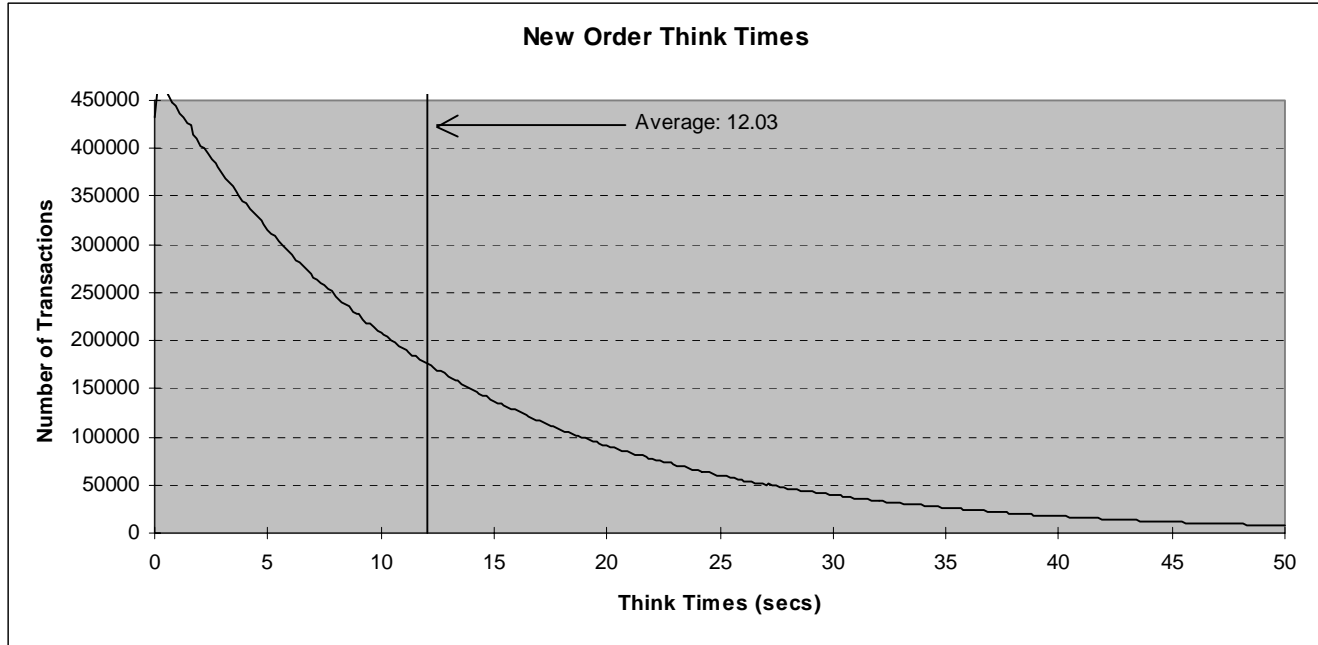
Figure 5.6: New Order Response Time versus Throughput



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)

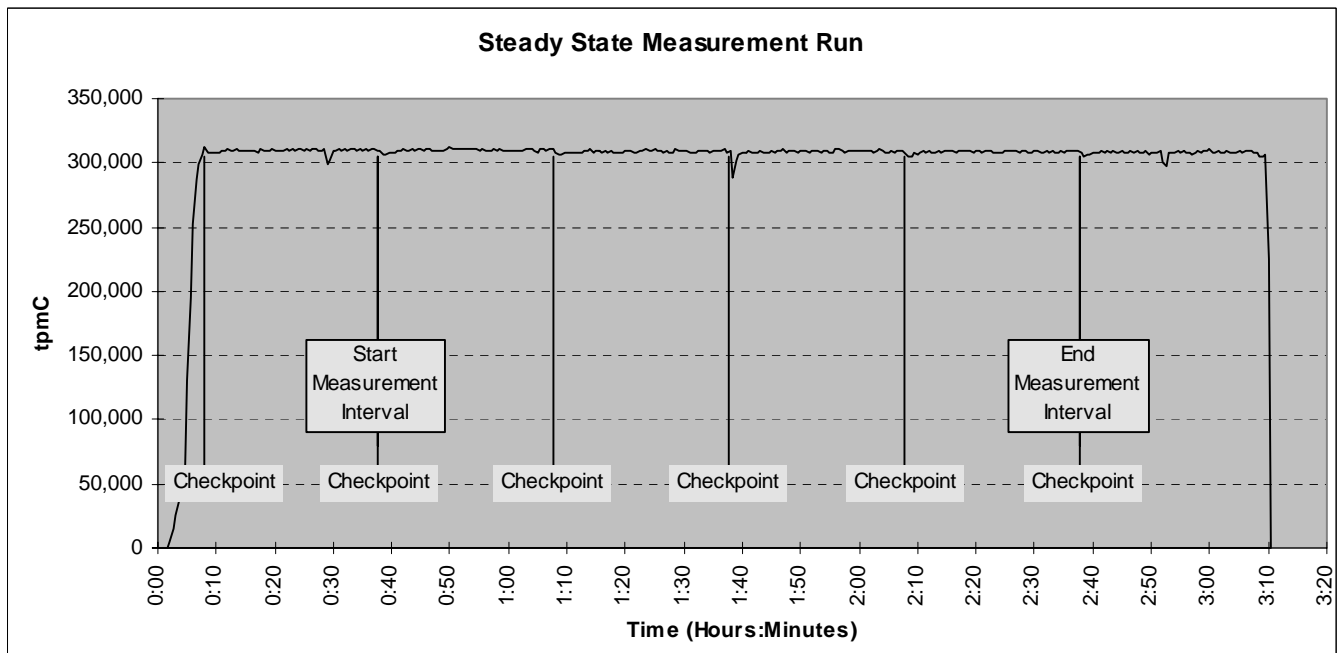
Figure 5.7: New Order Think Time Distribution



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.

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

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

5.10. Measurement Interval Duration

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

The measurement interval was 120 minutes.

5.11. Regulation of Transaction Mix

The method of regulation of the transaction mix (e.g. card decks or weighted random distribution) must be described. If weighted distribution is used and the RTE adjusts the weights associated with each transaction type, the maximum adjustments to the weight from the initial value must be disclosed. (8.1.6.13)

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

5.12. Transaction Statistics

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

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

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

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

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

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

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

Table 5.4 shows this information.

Table 5.4: Transaction Statistics

| 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 | 84.99% |
| | Remote warehouse | 15.01% |
| | Non-primary key access | 60.01% |
| Order Status | Non-primary key access | 60.00% |
| 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 | 4.01% |
| | 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 3 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 29.8 minutes.

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

Table 5.5: Checkpoint Start Time and Duration

| Item | Start | End | Duration |
|----------------------|--------------|------------|-----------------|
| Measurement Interval | 0:37:44 | 2:37:44 | 7200 |
| 1st Checkpoint | 0:37:47 | 1:07:33 | 1786 |
| 2nd Checkpoint | 1:07:47 | 1:37:33 | 1786 |
| 3rd Checkpoint | 1:37:47 | 2:07:33 | 1786 |
| 4th Checkpoint | 2:07:47 | 2:37:33 | 1786 |

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)

Three terminal connections were lost. The lost connections were reconnected within one second.

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 QLogic 2.0 gigabit-per-second LAN adapter. Each was direct connected to a Qlogic adapter in the eight clients. These LAN segments run at 2.0 gigabit-per-second in the priced and tested configurations. Each client also contains two 10/100/1000 megabit-per-second inbuilt LAN controllers of which one was used in the tested configuration. A 10/100/1000 megabit-per-second switch was used to connect the clients to RTE driver systems emulating web browsers in the tested configuration. The 10/100/1000 LAN connections between the clients and switches run at 1000 megabits-per-second in the priced and tested configurations.

6.7. Operator Intervention

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

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

7.1. Pricing

A detailed list of hardware and software used in the priced system must be reported. Each separately orderable item must have vendor part number, description, and release/revision level, and either general availability status or committed delivery date. If package pricing is used, vendor part number of the package and a description uniquely identifying each of the components of the package must be disclosed. Pricing source(s) and effective date(s) must also be reported. (8.1.8.1)

The total 3-year price of the entire configuration must be reported, including: hardware, software, and maintenance charges. Separate component pricing is recommended. The basis of all discounts used must be disclosed. (8.1.8.2)

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

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

A detailed list of hardware and software components along with their part numbers and prices are given in the Executive Summary near the beginning of this document. All third-party quotations are included in appendix F at the end of this document.

7.1.1. System Pricing

Each priced configuration consists of an integrated system package, additional options, and components. Prices for all products are U.S. list prices.

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 support pricing is based on 3 years of annual support costs.

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 13% large volume cash discount for the client, server and storage components of the priced configuration.

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)

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

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

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 v and vi.

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)

The system is priced for the United States of America.

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 Edition for 64-bit Itanium-based Systems license, 16 processor
- One (1) Microsoft SQL Server 2000 Enterprise Edition (64-bit) license, 16 processor
- Eight (8) Microsoft Windows 2003 Server licenses
- One (1) Microsoft Visual C++ Standard license
- One (1) Unisys Storage Sentinel 20TB license

8.

Clause 8 : Full Disclosure Availability

8.1. Availability

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

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

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

9.1. Auditor's Report

The auditor's name, address, phone number and a copy of the auditor's attestation letter indicating compliance must be included in the Full Disclosure Report. (8.1.9.1)

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

Lorna Livingtree, a TPC certified auditor, audited this implementation of the TPC Benchmark C on the Unisys ES7000 Aries 420 Enterprise Server (16P) representing:

Performance Metrics, Inc.
137 Yankton St. Suite 101
Folsom, CA 95630

Phone: (916) 985-1131
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The attestation letter is shown on the next 2 pages.



PERFORMANCE METRICS INC.
TPC Certified Auditors

December 21, 2003

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I have verified on-site and by remote the TPC Benchmark™ C for the following configuration:

Platform: Unisys ES7000 Aries 420 Enterprise Server
Database Manager: Microsoft SQL Server 2000 Enterprise Edition (64-bit)
Operating System: Microsoft Windows Server 2003, Datacenter Edition for 64-bit Itanium-based Systems
Transaction Monitor: COM+ (included in Windows 2003)

| Server: Unisys ES7000 Aries 420 Enterprise Server | | | | |
|---|----------------------------------|-------------------------------------|-----------------|-------------------|
| CPU's | Memory | Disks | 90% Response | TpmC |
| 16 Intel Itanium2 @ 1.5 GHz | Main: 128 GB Cache: 6 MB each | 770 @ 18GB 24 @ 73GB 2 @ 36GB | 0.50 sec | 309,036.53 |
| 8 Clients: Unisys ES3020L Server | | | | |
| 2 Intel Xeon @ 2.4 GHz | Main: 1 GB Cache: 512KB | 1 @ 18GB | Na | Na |

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

- The transactions were correctly implemented.
- The database was properly sized and populated.
- The database was properly scaled with 24,700 warehouses, all of which were active during the Measured Interval.
- The ACID properties were successfully demonstrated.

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- The durability data loss and log loss tests were performed on the fully scaled database with 25,590 users and 2,559 active warehouses, running at 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. The measured configuration has sufficient storage to satisfy this requirement.
- Measurement cycle times included a 0.1 second menu and a 0.1 second response time delays for emulated Web browsers.
- There were 247,000 user contexts present on the system.
- Each emulated user started with a different random number seed.
- The NURand constants used for database load and at run time were 123 and 208 respectively.
- The steady state portion of the test was 2 hours (7200 seconds).
- One checkpoint was taken before the measured interval and after steady state was reached.
- Four checkpoints were taken during the measured interval.
- The system pricing was checked for major components and maintenance.

Auditor Notes:

There were eight ES3020L clients in the measured configuration, seven older clients with dual 2.4GHz processors, 400MHz FSB, 1GB memory, one 18 GB 10Krpm drive, and one new client with dual 2.4GHz processors, 533MHz FSB, 1GB memory, one 18 GB 15Krpm drive. The pricing uses eight new ES3020L clients in the benchmark configuration, each with dual 2.4GHz processors, 533MHz FSB, 1GB memory and one 18 GB 15Krpm drive because the older measured clients are no longer orderable through Unisys. Performance and capacity of the substituted clients are the same or better than the measured clients. I believe that this substitution is compliant with current substitution rules - TAB ID 327.

Sincerely,



Lorna Livingtree
Auditor

Appendix A - Client Source

tpcc.def

```
EXPORTS
  GetExtensionVersion
  HttpExtensionProc
```

tpcc.h

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

#include <time.h>

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

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

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

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

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

```
#define STATUS_OK 0
#define ERR_CMD_UNKNOWN -10
#define ERRRTXT_CMD_UNKNOWN "Unrecognized Command"
#define ERR_ALREADY_LOGGEDIN -11
#define ERRRTXT_ALREADY_LOGGEDIN "Already Logged In"
#define ERR_TERMID -12
#define ERRRTXT_TERMID "TermId or SyncId in Error"
#define ERR_FORM_UNKNOWN -13
#define ERRRTXT_FORM_UNKNOWN "Unrecognized FormId"
#define ERR_WID_INVALID -14
#define ERR_DID_INVALID -15
#define ERR_MISSING_KEY -16
#define ERR_NOT_NUMERIC -17
#define ERR_THRESHOLD_RANGE -18
#define ERR_EMBEDDED_EMPTY_OL -19
#define ERR_QUANTITY_INVALID -20
#define ERR_OL_INVALID -21
#define ERR_OL_COUNT -22
#define ERR_TM_INTERFACE -23
#define ERR_SERVICE_RSLT -24
#define ERR_INPUT_TOOLONG -25
#define ERR_IDANDNAME_EMPTY -26
#define ERR_IDANDNAME_ENTERED -27
#define ERR_AMOUNT_BADFORM -28
#define ERR_AMOUNT_INVALID -29
#define ERR_CARRIER_INVALID -30
#define ERR_TERM_ALLOC -31

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

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

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

typedef struct
{
    short ol_supply_w_id;
    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;
    short w_id;
    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;
    short w_id;
    short d_id;
    long c_id;
    short c_d_id;
    short c_w_id;
    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;
    short ol_supply_w_id;
    short ol_quantity;
    double ol_amount;
    DATEDETAILS ol_delivery_d;
} OL_ORDER_STATUS_DATA;

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

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

```

tpcc.cpp

```

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

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

#define EXTN_VERSION MAKEULONG(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 * szTMinInitError =
    HTTPHdr "<HTML>"
    "<HEAD><TITLE>Welcome To TPC-C</TITLE></HEAD><BODY>"
    "<B>TPCC Extension Error (TMinInit Failed)</B><BR>"
    "</BODY></HTML>";
INT iHHdrLen = 0;
INT iCTextLen = 0;

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

//=====
//
// Function name: DllMain

```

```

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

            InitializeCriticalSection(&csDllMain);
            ReadRegistry();
            DiagIoInit(pTitle,bSetConsole,bSetEventLog,uSetDiagLevel);
            wsprintf(szDiag,
                "(%s) EventLog = %d, Console = %d, DiagLevel = %d\n"
                "MaxTerms = %d\n",
                VERSIONINFO,bSetEventLog,bSetConsole,uSetDiagLevel,iMaxTerms);
            DiagIoWrite(szDiag,DIAG_FORCE);
            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);
        };
        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);
            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;
    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 TPCCSESEND:
        SendResponse(pECB, pTPCC->SendMsg, pTPCC->szHeader);
        break;
    case TPCCENDNOW:
    default:
        break;
}; // switch (TPCCHandler result)

Httpxit:

    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
    SHORT sWid; // TPCC WareHouse Id
    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
} 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 = "XXXX-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);

//=====
//
// 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>
    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->pIAAllTxn->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=\"TERMINID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "%s</FORM><BR>%s<BR>%s",

```

```

    HTPPHdr, 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 += sprintf(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 += sprintf(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=\"TERMIN\" 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=\"SYCID\" VALUE=\"%d\">",
        HTPPHdr, 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

//=====

```

delivery.h

```

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

#define DEFAULTDQSIZE 2000

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

//=====

```

delivery.cpp

```

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

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

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

CRITICAL_SECTION csDQRead;
CRITICAL_SECTION csDQWrite;
HANDLE hDQRead;
HANDLE hDQStart;
bool bDQStarted = FALSE;
bool bDQQuit = FALSE;
long lDeliveryThreads;
long lDQSize;
char szPath [200];

```

```

long lDeliveryActive = 0;
typedef struct
{
    bool bInUse;
    DELIVERY_DATA ddEntry;
} DELIVERY_QUEUE;
DELIVERY_QUEUE * pDQ;
long lDQNextWrite = 0;
long lDQNextRead = 0;

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

//=====
//
// Function name: DeliveryInit
//
//=====
bool DeliveryInit(long lSetThreads,long lSetQSize,char * pszPath)
{
    char szDiag[MAX_DIAG_SZ];

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

//=====
//
// Function name: DoDQStart
//
//=====
bool DoDQStart(void)
{
    UINT uThread;

```

```

ULONG hThread;
DWORD dwRslt;
char szDiag[MAX_DIAG_SZ];
void * Unused = NULL;
int i;

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

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

//=====
//
// Function name: DeliveryTerm
//
//=====
void DeliveryTerm(void)
{
    int i = 0;

```

```

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

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

```

```

    if (lDQNextWrite == lDQSize)
        lDQNextWrite = 0;
}
finally
{
    LeaveCriticalSection(&csDQWrite);
};
pPost->bTPRslt = FALSE;
pPost->iTPRslt = SVC_NOERROR;
return(FALSE);
}; // DeliveryPost

//=====
//
// Function name: DoDelivery
//
//=====
UINT WINAPI DoDelivery(void * Unused)
{
    FILE *fpLog;
    char szLogTitle[300];
    bool bFlush = FALSE;
    DELIVERY_QUEUE * pDQSlot;
    DELIVERY_DATA * pddEntry;
    DELIVERY_DATA * pdd;
    TMON_STATE tsState;
    TMON_STATE * pTMon;
    HRESULT hr;
    int iSize;
    long lMyId;
    char szTMErrTxt[500];
    char szDiag[MAX_DIAG_SZ];
    int iElapsed;
    int iInx;
    long lDQReport = 0;
    bool bDQReport = FALSE;

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

```

```

    return(1);
};
wsprintf(szDiag, "DoDelivery(%ld): Initialized\n", lMyId);
DiagIoWrite(szDiag, DIAG_FORCE);
SetEvent(hDQStart);

while (!bDQQuit)
{
    EnterCriticalSection(&csDQRead);
    WaitForSingleObject(hDQRead, INFINITE);
    if (bDQQuit)
    {
        LeaveCriticalSection(&csDQRead);
        break;
    };
    pDQSlot = &pDQ[LDQNextRead];
    if (!pDQSlot->bInUse)
    {
        wsprintf(szDiag,
            "DoDelivery(%ld): QSlot for Read Not InUse (%ld)\n",
            lMyId);
        DiagIoWrite(szDiag, DIAG_ERROR);
        LeaveCriticalSection(&csDQRead);
        break;
    };
    pddEntry = &pDQSlot->ddEntry;
    pdd = (DELIVERY_DATA *) pTMon->pTxnData;
    memcpy(pdd, pddEntry, sizeof(DELIVERY_DATA));
    EnterCriticalSection(&csDQWrite);
    pDQSlot->bInUse = FALSE;
    LDQNextRead++;
    if (LDQNextRead == LDQSize)
    {
        LDQNextRead = 0;
        bDQReport = TRUE;
        LDQReport = LDQNextWrite;
    };
    if (LDQNextRead == LDQNextWrite)
        ResetEvent(hDQRead);
    LeaveCriticalSection(&csDQWrite);
    LeaveCriticalSection(&csDQRead);
    // Process delivery transaction
    iSize = pTMon->iSize;
    hr = pTMon->pIAAllTxn->Delivery(&iSize, (unsigned char**) &pTMon-
>pTxnData);
    if (FAILED(hr))
    {
        wsprintf(szDiag,
            "DoDelivery(%ld): COM Interface Call Failed HRESULT %x\n",
            lMyId, hr);
        DiagIoWrite(szDiag, DIAG_ERROR);
        break;
    };
    pdd = (DELIVERY_DATA *) pTMon->pTxnData;
    GetLocalTime(&pdd->EndTime);
    iElapsed = 9999999;
    if (!pdd->bTPRslt)
        CalculateElapsed(&iElapsed, &pdd->QTime, &pdd->EndTime);
    iInx = wsprintf(szDiag,
"%4.4d/%2.2d/%2.2d,%2.2d:%2.2d:%2.2d:%3.3d,%2.2d:%2.2d:%2.2d:%3.3d,"

```

```

"%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d\r\n",
pdd->EndTime.wYear, pdd->EndTime.wMonth, pdd->EndTime.wDay,
pdd->QTime.wHour, pdd->QTime.wMinute,
pdd->QTime.wSecond, pdd->QTime.wMilliseconds,
pdd->EndTime.wHour, pdd->EndTime.wMinute,
pdd->EndTime.wSecond, pdd->EndTime.wMilliseconds,
iElapsed, pdd->w_id, pdd->o_carrier_id,
pdd->o_id[0], pdd->o_id[1], pdd->o_id[2], pdd->o_id[3], pdd->o_id[4],
pdd->o_id[5], pdd->o_id[6], pdd->o_id[7], pdd->o_id[8], pdd->o_id[9]
);
    fwrite(szDiag, iInx, 1, fpLog);
    if (bDQReport)
    {
        wsprintf(szDiag, "DoDelivery(%ld): DQDepth
%ld\n", lMyId, LDQReport);
        DiagIoWrite(szDiag, DIAG_FORCE);
        bDQReport = FALSE;
    };
}; // while !bDQQuit

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

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

term.h

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

#include <sys\timeb.h>

```

```

#define TMILLI_TIMEOUT 3600000 // One hour

typedef struct
{
    BOOL bInUse; // In use flag
    INT iTermId; // TermId
    LPVOID ConnID; // Connection Id
    INT iSyncId; // Sync Id
    SHORT sWid; // TPCC WareHouse Id
    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)
    {
        sprintf(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)
    {
        sprintf(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];
        sprintf(szDiag, "TermAlloc(%ld): Term Array Not Allocated\n",
            GetCurrentThreadId());
        DiagIoWrite(szDiag,DIAG_ERROR);
        return(NULL);
    };
    EnterCriticalSection(&csTerm);
    _try
    {

```

```

while(iNextTerm <= iMaxTerm)
{
    if (!pTArray[iNextTerm].bInUse)
    {
        pTArray[iNextTerm].bInUse = TRUE;
        _ftime(&pTArray[iNextTerm].tbLastAccess);
        iTermId = iNextTerm;
        iNextTerm++;
        break;
    };
    iNextTerm++;
}; // while(iNextTerm <= iMaxTerm) (1st Try)
if (iTermId <= 0)
{
    // No entry found. Perform maint and try again
    TermMaint();
    iNextTerm = 1;
    while(iNextTerm <= iMaxTerm)
    {
        if (!pTArray[iNextTerm].bInUse)
        {
            pTArray[iNextTerm].bInUse = TRUE;
            _ftime(&pTArray[iNextTerm].tbLastAccess);
            iTermId = iNextTerm;
            iNextTerm++;
            break;
        };
        iNextTerm++;
    }; // while(iNextTerm <= iMaxTerm) (2nd Try)
}; // if (iTermId <= 0)
if (iTermId <= 0)
    iNextTerm = 1;
}
finally
{
    LeaveCriticalSection(&csTerm);
};

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

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

```

```

    {
        tmElapsed = TimebElapsed(&pTArray[iTermId].tbLastAccess);
        if (tmElapsed > TMILLI_TIMEOUT)
            TermFree(iTermId);
    };
}; // TermMaint

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

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

```

```

pTerm = &pTArray[iTermId];
pTerm->ConnID = 0;
pTerm->SWId = 0;
pTerm->SDId = 0;
pTerm->iSyncId = 0;
pTerm->iTermId = iTermId;
TimebClear(&pTerm->tbLastAccess);
pTerm->bInUse = FALSE;
return(FALSE);
}; // TermFree

```

tmon.h

```

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

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

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

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

```

tmon.cpp

```

// tmon.cpp
//
// Copyright Unisys, 1999
//

// needed for CoinitializeEx
#define _WIN32_WINNT 0x0400

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

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

#include "tmon.h"

INT iTMMaxSz;

//=====
//
// Function name: TMonInit
//
//=====

```

```

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

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

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

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

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

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

```

```

        wsprintf(pTMon->pszErrTxt, "COM Allocate TxnData Failed\n");
        return(TRUE);
    };
    pTMon->iSize = iTMMaxSz;
    return(FALSE);
}; // TMinInit

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

```

timesupp.cpp

```

// timesupp.c
//
// Copyright Unisys, 1997 1998 1999 2000
//

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

//=====
//
// 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: TimebElapsed
//
//=====
TMILLI TimebElapsed(struct _timeb * p_tb1)
{
    struct _timeb _tb2;
    _ftime(& _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: 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

```

timesupp.h

```

// timesupp.c
//
// Copyright Unisys, 1997 1998 1999 2000
//
#include <stdio.h>
#include "timesupp.h"

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

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

//=====
//
// Function name: TimebElapsedd
//
//=====
TMILLI TimebElapsedd(struct _timeb * p_tb1)
{
    struct _timeb tb2;
    _ftime(&tb2);
    return (TimebDiff(p_tb1, &tb2));
}; // TimebElapsedd

//=====
//
// Function name: TimebClear
//

```

```

//=====
VOID TimebClear(struct _timeb * p_tlb1)
{
    p_tlb1->time = 0;
    p_tlb1->millitm = 0;
}; // TimebClear

//=====
//
// Function name: TimebToString
// Converts timeb to yyyy:mm:dd,hh:mm:ss.sss format
//
//=====
CHAR * TimebToString(struct _timeb * p_tlb1,CHAR * psz,BOOL bMillis)
{
    struct tm * ptm;
    int iInx;
    ptm = localtime(&p_tlb1->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_tlb1->millitm);
    return(psz);
}; // TimebToString

//=====
//
// Function name: TimebFromString
// Converts yyyy:mm:dd,hh:mm:ss.sss (TimebToString) format to timeb
//
//=====
BOOL TimebFromString(struct _timeb * p_tlb1,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_tlb1->time = 0;
        p_tlb1->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_tlb1->millitm = atoi(psz);
    }
    else
        p_tlb1->millitm = 0;
    p_tlb1->time = mktime(ptm);
    return(FALSE);
}; // TimebFromString

//=====
//
// Function name: TimebAddSecs
//
//=====
VOID TimebAddSecs(struct _timeb * p_tlb1,INT iSeconds)
{
    p_tlb1->time += iSeconds;
}; // TimebAddSecs

//=====
//
// 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

diagio.h

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

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

#define DIAGNOSTICS TRUE
#define MAX_DIAG_SZ 2000

// Severity level of diagnostic report
#define DIAG_FORCE 1
#define DIAG_ERROR 2
#define DIAG_STATE 3
#define DIAG_INFO 4

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

```

diagio.cpp

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

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

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

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

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

```
}; // if bEventLog
}; // if Diagnostics
}; // DiagIoInit

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

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

```

        if (iERslt != 0)
            fprintf(stdout,
                "EventLog Write Failed (%ld), No Longer in Use\n",
                iERslt);
    };
}
finally
{
    LeaveCriticalSection(&csDiagIo);
};
}; // if uDiagLevel >= uSeverity
}; // if Diagnostics
}; // DiagIoWrite

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

```

tpccproxy.def

```

LIBRARY      "tpcc_com_ps"

DESCRIPTION  'Proxy/Stub DLL'

EXPORTS
    DllGetClassObject      @1    PRIVATE
    DllCanUnloadNow       @2    PRIVATE

```

```

DllRegisterServer      @3    PRIVATE
DllUnregisterServer    @4    PRIVATE

```

tpccproxy.idl

```

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

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

[
    object,
    uuid(FEEE6AA2-84B1-11d2-BA47-00C04FBFE08B),
    helpstring("ITPCC Interface"),
    pointer_default(unique)
]
interface ITPCC: IUnknown
{
    HRESULT _stdcall NewOrder
    (
        [in, out] int * iSize,
        [in, out, size_is(*iSize)] char ** pData
    );
    HRESULT _stdcall Payment
    (
        [in, out] int * iSize,
        [in, out, size_is(*iSize)] char ** pData
    );
    HRESULT _stdcall Delivery
    (
        [in] int * iSize,
        [in, out, size_is(*iSize)] char ** pData
    );
    HRESULT _stdcall StockLevel
    (
        [in, out] int* iSize,
        [in, out, size_is(*iSize)] char ** pData
    );
    HRESULT _stdcall OrderStatus
    (
        [in, out] int* iSize,
        [in, out, size_is(*iSize)] char ** pData
    );
    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 "oidl.idl";
import "ocidl.idl";
import "..\tpccproxy\tpccproxy.idl";
```

```
[
    uuid(122A3117-2520-11D3-BA71-00C04FBFE08B),
    version(1.0),
    helpstring("TPC-C 1.0 Type Library")
]
library TPCCLib
{
    importlib("stdole32.tlb");
    importlib("stdole2.tlb");

    [
        uuid(122A3128-2520-11D3-BA71-00C04FBFE08B),
        helpstring("All Txns Class")
    ]
    coclass TPCC
    {
        [default] interface ITPCC;
    };
};
```

tpccsvr.h

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

```
class CTPCC_Common :
public ITPCC,
public IObjectControl,
public IObjectConstruct,
public CComObjectRootEx<CComSingleThreadModel>
{
public:
BEGIN_COM_MAP(CTPCC_Common)
    COM_INTERFACE_ENTRY(ITPCC)
    COM_INTERFACE_ENTRY(IObjectControl)
    COM_INTERFACE_ENTRY(IObjectConstruct)
END_COM_MAP()

CTPCC_Common();
~CTPCC_Common();

// ITPCC
public:
HRESULT __stdcall NewOrder(int * iSize, UCHAR ** pTData);
HRESULT __stdcall Payment(int * iSize, UCHAR ** pTData);
HRESULT __stdcall Delivery(int * iSize, UCHAR ** pTData);
HRESULT __stdcall StockLevel(int* iSize, UCHAR ** pTData);
HRESULT __stdcall OrderStatus(int* iSize, UCHAR ** pTData);
HRESULT __stdcall CallSetComplete();

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

// IObjectConstruct
STDMETHODIMP Construct(IDispatch * pUnk);

// state
private:
bool m_bCanBePooled;
long m_lRefId;
int m_iMaxRetry;
int m_iTryCount;
bool m_bTPRslt;
int m_iTPRslt;
union
{
    NEW_ORDER_DATA NOData;
    PAYMENT_DATA PYData;
    DELIVERY_DATA DLData;
    ORDER_STATUS_DATA OSDData;
    STOCK_LEVEL_DATA SLData;
} m_TData;
SQLHDBC m_hdbc;
SQLHSTMT m_hstmt;
SQLHSTMT m_hstmtNewOrder;
SQLHSTMT m_hstmtPayment;
SQLHSTMT m_hstmtDelivery;
SQLHSTMT m_hstmtOrderStatus;
SQLHSTMT m_hstmtStockLevel;
SQLHDESC m_descNewOrderCols1;
SQLHDESC m_descNewOrderCols2;
SQLHDESC m_descOrderStatusCols1;
SQLHDESC m_descOrderStatusCols2;
SQLINTEGER m_BindOffset;
```

```

    SQLINTEGER 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>

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

#include "tpccproxy.h"
#include "tpcc.h"

```

```

#include "resource.h"
#include "tpccsvr_i.h"
#include "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()

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);

////////////////////////////////////
///
///
/// 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:
                _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)", pPName, iInstance, szServer);
                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;
};
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();
        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;
};

#ifdef LONG_WID
    WriteEventLog ("tpccsvr - long w_id", false);
#endif
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)
{
    // registers object, typelib and all interfaces in typelib
    return _Module.RegisterServer (TRUE);
};

STDAPI DllUnregisterServer(void)
{
    _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 = wprintf(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 += wprintf(szTmp + iInx, "Deadlock retry
(%d)\n", m_iTryCount);
        Sleep(10 * m_iTryCount);
        continue;
    };
    bRslt = TRUE;
    iInx += wprintf(szTmp + iInx, "%ld %s\n", lNativeError, szMsg);
}; // while iMsgs
SQLFreeStmt(m_hstmt, SQL_CLOSE);
WriteEventLog(szTmp, TRUE);
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)
        {
            wprintf(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)
        {
            wprintf(szDiag,
                "Construct(%ld): Set Connection Packet Size failed\n",
                m_lRefId);
            CheckDBError(szDiag);
            return(E_FAIL);
        };
        wprintf(szConnectStr,
            "DRIVER=SQL Server;SERVER=%s;UID=%s;PWD=%s;DATABASE=%s;WSID=%s-
%ld",
            szServer, szUser, szPassword, szDatabase, szMyHost, m_lRefId);
        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)
        {
            wprintf(szDiag, "Construct(%ld): Connect failed\n", m_lRefId);
            CheckDBError(szDiag);
            return(E_FAIL);
        };
        if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmt) != SQL_SUCCESS)
        {
            wprintf(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)
        {
            wprintf(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 (...)
    {
        wprintf(szDiag, "Construct(%ld): Unhandled exception\n", m_lRefId);
        WriteEventLog(szDiag, TRUE);
        return(E_FAIL);
    };

    wprintf(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
// strcpy 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;
    int j;
    if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmtNewOrder) !=
SQL_SUCCESS
        || SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc, &descNewOrderCols1) !=
SQL_SUCCESS
        || SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc, &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[0].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[0].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
failed\n", m_lRefId);
        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, "InitNOPParams(%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, "InitNOPParams(%ld): Bind Col failed\n", m_lRefId);
    CheckDBError(szDiag);
    return(TRUE);
};
return(FALSE);
}; // InitNOPParams

HRESULT CTPCC_Common::NewOrder(int * iSize, UCHAR ** pTData)
{
    NEW_ORDER_DATA * pnod;
    RETCODE rc;
    bool bRetry;

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

    int i;

    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)

```

```

{
    char szDiag[100];
    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);
};
// clip statement buffer based on number of parameters
// fixed part is 29 chars and variable part is 6 chars per line
item
i = 29 + pnod->o_ol_cnt * 6;
wcsncpy(&szSqlTemplate[i], L"");
// 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;
    };
};
memcpy(&m_TData.NOData, pnod, sizeof(NEW_ORDER_DATA));
for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
{
    bRetry = FALSE;
    m_BindOffset = 0;
    rc = SQLExecDirectW(m_hstmt, (SQLWCHAR *) szSqlTemplate, SQL_NTS);
    if (rc != SQL_SUCCESS && rc !=
SQL_SUCCESS_WITH_INFO)
    {
        char szDiag[100];
        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)
        {
            char szDiag[100];
            wsprintf(szDiag, "NewOrder(%ld): Fetch Ol%d\n", m_lRefId, (i +
1));

            if (CheckDBError(szDiag))
                m_iTPRslt = SVCERR_ODBC;
            else
                bRetry = TRUE;
            break;
        };
        // move to the next resultset
        if (SQLMoreResults(m_hstmt) == SQL_ERROR)

```

```

    {
        char szDiag[100];
        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)
{
    char szDiag[100];
    wsprintf(szDiag, "NewOrder(%ld): SetStmtAttr
NOCols2\n", m_lRefId);
    if (CheckDBError(szDiag))
    {
        m_iTPRslt = SVCERR_ODBC;
        break;
    };
    continue;
};
if (SQLFetch(m_hstmt) == SQL_ERROR)
{
    char szDiag[100];
    wsprintf(szDiag, "NewOrder(%ld): Fetch\n", m_lRefId);
    if (CheckDBError(szDiag))
    {
        m_iTPRslt = SVCERR_ODBC;
        break;
    };
    continue;
};
SQLFreeStmt(m_hstmt, SQL_CLOSE);
if (m_no_commit_flag == 1)
{
    m_TData.NOData.total_amount *=
        ((1 + m_TData.NOData.w_tax + m_TData.NOData.d_tax) *
        (1 - m_TData.NOData.c_discount));
    m_bTPRslt = FALSE;
    m_iTPRslt = SVC_NOERROR;
}
else
    m_iTPRslt = SVC_BADITEMID;
break;
}; // for m_iMaxRetry
memcpy(pnod, &m_TData.NOData, sizeof(NEW_ORDER_DATA));
pnod->bTPRslt = m_bTPRslt;
pnod->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
{
    strcpy(pnod->execution_status, "Transaction committed.");
    return(S_OK);
};

```

```

};
if (m_iTPRslt == SVC_BADITEMID)
{
    strcpy(pnod->execution_status, "Item number is not valid.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_DEADLOCK)
    wsprintf(pnod->execution_status, "Hit retry
max(%d).", m_iMaxRetry);
else
    strcpy(pnod->execution_status, "DBTranAbort, Check Input Data");
return(S_OK);
}
catch (...)
{
    char szDiag[300];
    wsprintf(szDiag, "NewOrder(%ld): Unhandled exception\n", m_lRefId);
    WriteEventLog(szDiag, TRUE);
    m_bCanBePooled = FALSE;
    pnod->bTPRslt = TRUE;
    pnod->iTPRslt = SVCERR_EXCEPTION;
    strcpy(pnod->execution_status, "Error, Unhandled exception");
    return(S_OK);
};
}; // NewOrder

bool CTPCC_Common::InitPYParams(void)
{
    int i;
    char szDiag[300];
    if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmtPayment) !=
SQL_SUCCESS)
    {
        wsprintf(szDiag, "InitPYParams(%ld): Allocate Stmt Handle
failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };
    m_hstmt = m_hstmtPayment;
    i = 0;
#ifdef LONG_WID
    if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
0, 0, &m_TData.PYData.w_id, 0, NULL) != SQL_SUCCESS
||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
#else
    if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,
0, 0, &m_TData.PYData.w_id, 0, NULL) != SQL_SUCCESS
||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,
#endif
0, 0, &m_TData.PYData.c_w_id, 0, NULL) != SQL_SUCCESS
||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_DOUBLE, SQL_NUMERIC,
6, 2, &m_TData.PYData.h_amount, 0, NULL) != SQL_SUCCESS
||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT,
0, 0, &m_TData.PYData.d_id, 0, NULL) != SQL_SUCCESS

```

```

||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT,
0, 0, &m_TData.PYData.c_d_id, 0, NULL) != SQL_SUCCESS
||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
0, 0, &m_TData.PYData.c_id, 0, NULL) != SQL_SUCCESS
|| SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_CHAR, SQL_CHAR,
sizeof(m_TData.PYData.c_last), 0, &m_TData.PYData.c_last,
sizeof(m_TData.PYData.c_last), NULL) != SQL_SUCCESS
)
{
    wsprintf(szDiag, "InitPYParams(%ld): Bind Param
failed\n", m_lRefId);
    CheckDBError(szDiag);
    return(TRUE);
};
i = 0;
if (SQLBindCol(m_hstmt, ++i, SQL_C_SLONG, &m_TData.PYData.
c_id, 0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_last,
sizeof(m_TData.PYData.c_last), NULL) != SQL_SUCCESS
||
SQLBindCol(m_hstmt, ++i, SQL_C_TYPE_TIMESTAMP, &m_TData.PYData.h_date,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_street_1,
sizeof(m_TData.PYData.w_street_1), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_street_2,
sizeof(m_TData.PYData.w_street_2), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_city,
sizeof(m_TData.PYData.w_city), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_state,
sizeof(m_TData.PYData.w_state), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.w_zip,
sizeof(m_TData.PYData.w_zip), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_street_1,
sizeof(m_TData.PYData.d_street_1), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_street_2,
sizeof(m_TData.PYData.d_street_2), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_city,
sizeof(m_TData.PYData.d_city), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_state,
sizeof(m_TData.PYData.d_state), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.d_zip,
sizeof(m_TData.PYData.d_zip), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_first,
sizeof(m_TData.PYData.c_first), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_middle,
sizeof(m_TData.PYData.c_middle), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_street_1,
sizeof(m_TData.PYData.c_street_1), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_street_2,
sizeof(m_TData.PYData.c_street_2), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_city,
sizeof(m_TData.PYData.c_city), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_state,
sizeof(m_TData.PYData.c_state), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_zip,
sizeof(m_TData.PYData.c_zip), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_phone,
sizeof(m_TData.PYData.c_phone), NULL) != SQL_SUCCESS

```

```

||
SQLBindCol(m_hstmt, ++i, SQL_C_TYPE_TIMESTAMP, &m_TData.PYData.c_since,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_credit,
sizeof(m_TData.PYData.c_credit), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.PYData.c_credit_lim,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.PYData.c_discount,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.PYData.c_balance,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_data,
sizeof(m_TData.PYData.c_data), NULL) != SQL_SUCCESS
)
{
    wsprintf(szDiag, "InitPYParams(%ld): Bind Col failed\n", m_lRefId);
    CheckDBError(szDiag);
    return(TRUE);
};
return(FALSE);
}; // InitPYParams
HRESULT CTPCC_Common::Payment(int * iSize, UCHAR ** pTData)
{
    PAYMENT_DATA * ppd;
    RETCODE rc;
    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 *)L"{call
tpcc_payment(?,?,?, ?, ?, ?, ?, ?)", SQL_NTS);
            if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
            {
                char szDiag[100];
                wsprintf(szDiag, "Payment(%ld): Execute Direct\n", m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            if (SQLFetch(m_hstmt) == SQL_ERROR)
            {
                char szDiag[100];
                wsprintf(szDiag, "Payment(%ld): Fetch\n", m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
        };
    };
};

```

```

SQLFreeStmt(m_hstmt,SQL_CLOSE);
if (m_TData.PYData.c_id == 0)
    m_iTPRslt = SVCERR_NOCUSTOMER;
else
    {
        m_bTPRslt = FALSE;
        m_iTPRslt = SVC_NOERROR;
    }
break;
}; // for m_iMaxRetry
memcpy(ppd,&m_TData.PYData,sizeof(PAYMENT_DATA));
ppd->bTPRslt = m_bTPRslt;
ppd->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
    {
        strcpy(ppd->execution_status,"Transaction committed.");
        return(S_OK);
    };
if (m_iTPRslt == SVCERR_NOCUSTOMER)
    {
        strcpy(ppd->execution_status,"Invalid Customer id,name.");
        return(S_OK);
    };
if (m_iTPRslt == SVCERR_DEADLOCK)
    sprintf(ppd->execution_status,"Hit retry max(%d).",m_iMaxRetry);
else
    strcpy(ppd->execution_status,"DBTranAbort, Check Input Data");
return(S_OK);
}

catch (...)
{
char szDiag[300];
sprintf(szDiag,"Payment(%ld): Unhandled exception\n",m_lRefId);
WriteEventLog(szDiag,TRUE);
m_bCanBePooled = FALSE;
ppd->bTPRslt = TRUE;
ppd->iTPRslt = SVCERR_EXCEPTION;
strcpy(ppd->execution_status,"Error, Unhandled exception");
return(S_OK);
};
}; // Payment

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

```

```

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

HRESULT CTPCC_Common::Delivery(int * iSize,UCHAR ** pTData)
{
DELIVERY_DATA * pdd;
RETCODE rc;
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 *)L"{call
tpcc_delivery(?,?)}",SQL_NTS);
                if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
                    {
                        char szDiag[100];
                        sprintf(szDiag,"Delivery(%ld): Execute Direct\n",m_lRefId);
                        if (CheckDBError(szDiag))
                            {
                                m_iTPRslt = SVCERR_ODBC;
                                break;
                            };
                    };
                continue;
            };
        if (SQLFetch(m_hstmt) == SQL_ERROR)
            {
                char szDiag[100];
                sprintf(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 (...)
{
char szDiag[300];
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;

    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)
        {
            char szDiag[100];
            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)
            {
                char szDiag[100];
                wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
RowArraySize\n",m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            rc = SQLExecDirectW(m_hstmt,(SQLWCHAR*)L"{call
tpcc_orderstatus(?,?,?,?)",SQL_NTS);
            if ( ((rc == SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0)) ||
(rc == SQL_ERROR) )
            {
                char szDiag[100];
                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)
            {
                char szDiag[100];
                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) )
            {
                char szDiag[100];
                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)
    {
        char szDiag[100];
        sprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
OSCols2\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    if (SQLMoreResults(m_hstmt) == SQL_ERROR)
    {
        char szDiag[100];
        sprintf(szDiag,"OrderStatus(%ld):
MoreResults\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    if (SQLFetch(m_hstmt) == SQL_ERROR)
    {
        char szDiag[100];
        sprintf(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)
        {
            char szDiag[100];
            sprintf(szDiag,"OrderStatus(%ld): SetStmtAttr (Fetch)
OSCols1\n",m_lRefId);
            CheckDBError(szDiag);
            posd->bTPRslt = TRUE;
            posd->iTPRslt = SVCERR_ODBC;
            strcpy(posd->execution_status,"Error, SetStmt Cols1
Fetch");
            return(S_OK);
        };
        memcpy(&m_TData.OSData,posd,sizeof(ORDER_STATUS_DATA));
        Sleep(20);
        continue;
    };
}; // order lines exist
SQLFreeStmt(m_hstmt,SQL_CLOSE);
if (m_TData.OSData.o_ol_cnt == 0)
    m_iTPRslt = SVCERR_NOORDERS;
else
if (m_TData.OSData.c_id == 0 && m_TData.OSData.c_last[0] == 0)
    m_iTPRslt = SVCERR_NOCUSTOMER;
else
{

```

```

        m_bTPRslt = FALSE;
        m_iTPRslt = SVC_NOERROR;
    };
    break;
}; // for m_iMaxRetry
memcpy(posd,&m_TData.OSData,sizeof(ORDER_STATUS_DATA));
posd->bTPRslt = m_bTPRslt;
posd->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
{
    strcpy(posd->execution_status,"Transaction committed.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_NOCUSTOMER)
{
    strcpy(posd->execution_status,"Invalid Customer id,name.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_NOORDERS)
{
    strcpy(posd->execution_status,"Customer has no orders.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_DEADLOCK)
    sprintf(posd->execution_status,"Hit retry
max(%d).",m_iMaxRetry);
else
    strcpy(posd->execution_status,"DBTranAbort, Check Input Data");
    return(S_OK);
}
catch (...)
{
    char szDiag[300];
    sprintf(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 )
    {
        sprintf(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;
    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*)L"{call tpcc_stocklevel(?, ?, ?)}", SQL_NTS);
            if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
            {
                char szDiag[100];
                wsprintf(szDiag, "StockLevel(%ld): Execute Direct\n", m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            if (SQLFetch(m_hstmt) == SQL_ERROR)
            {
                char szDiag[100];
                wsprintf(szDiag, "StockLevel(%ld): Fetch\n", m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
            };
        };
    };
};

```

```

        continue;
    };
        SQLFreeStmt(m_hstmt, SQL_CLOSE);
    m_bTPRslt = FALSE;
    m_iTPRslt = SVC_NOERROR;
    break;
}; // for m_iMaxRetry
memcpy(psld, &m_TData.SLData, sizeof(STOCK_LEVEL_DATA));
psld->bTPRslt = m_bTPRslt;
psld->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
{
    strcpy(psld->execution_status, "Transaction committed.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_DEADLOCK)
    wsprintf(psld->execution_status, "Hit retry
max(%d).", m_iMaxRetry);
else
    strcpy(psld->execution_status, "DBTranAbort, Check Input Data");
    return(S_OK);
}

catch (...)
{
    char szDiag[300];
    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));

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);
    }
};
return;
}; // WriteEventLog

```


Appendix B - Database Design

Build Scripts

BACKUP.SQL

```
-----  
-- File: BACKUP.SQL  
-- Microsoft TPC-C Benchmark Kit Ver. 4.51  
-- Copyright Microsoft, 2003  
-- Purpose: Creates backup of tpcc database  
-----  
  
DBCC TRACEON (3111)  
GO  
  
declare @startdate datetime  
declare @enddate datetime  
select @startdate = getdate()  
select 'Start date:', convert(varchar(30),@startdate,9)  
  
backup database tpcc to  
        tpccbackA6, tpccbackB6, tpccbackC6, tpccbackD6,  
tpccbackE6,        tpccbackF6, tpccbackG6, tpccbackH6, tpccbackI6,  
tpccbackJ6,        tpccbackK6,  
                    tpccbackA5, tpccbackB5, tpccbackC5, tpccbackD5,  
tpccbackE5,        tpccbackF5, tpccbackG5, tpccbackH5, tpccbackI5,  
tpccbackJ5,        tpccbackK5  
                    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 tpccbackA6, tpccbackB6, tpccbackC6, tpccbackD6,  
tpccbackE6,  
        tpccbackF6, tpccbackG6, tpccbackH6, tpccbackI6,  
tpccbackJ6,        tpccbackK6,  
                    tpccbackA5, tpccbackB5, tpccbackC5, tpccbackD5,  
tpccbackE5,        tpccbackF5, tpccbackG5, tpccbackH5, tpccbackI5,  
tpccbackJ5,        tpccbackK5  
go
```

BACKUPDEV.SQL

```
-----  
-- File: BACKUPDEV.SQL  
-- Microsoft TPC-C Benchmark Kit Ver. 4.51  
-- Copyright Microsoft, 2003  
-- Purpose: Creates tpcc database Backup Devices  
-----  
  
use master  
go  
  
-----  
-- create backup devices  
-----  
  
exec sp_addumpdevice  
'disk', 'tpccbackA6', 'C:\Bigdb\dbBackups\BackupA6\backupA6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackB6', 'C:\Bigdb\dbBackups\BackupB6\backupB6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackC6', 'C:\Bigdb\dbBackups\BackupC6\backupC6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackD6', 'C:\Bigdb\dbBackups\BackupD6\backupD6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackE6', 'C:\Bigdb\dbBackups\BackupE6\backupE6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackF6', 'C:\Bigdb\dbBackups\BackupF6\backupF6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackG6', 'C:\Bigdb\dbBackups\BackupG6\backupG6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackH6', 'C:\Bigdb\dbBackups\BackupH6\backupH6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackI6', 'C:\Bigdb\dbBackups\BackupI6\backupI6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackJ6', 'C:\Bigdb\dbBackups\BackupJ6\backupJ6.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackK6', 'C:\Bigdb\dbBackups\BackupK6\backupK6.dmp'  
  
exec sp_addumpdevice  
'disk', 'tpccbackA5', 'C:\Bigdb\dbBackups\BackupA5\backupA5.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackB5', 'C:\Bigdb\dbBackups\BackupB5\backupB5.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackC5', 'C:\Bigdb\dbBackups\BackupC5\backupC5.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackD5', 'C:\Bigdb\dbBackups\BackupD5\backupD5.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackE5', 'C:\Bigdb\dbBackups\BackupE5\backupE5.dmp'  
exec sp_addumpdevice  
'disk', 'tpccbackF5', 'C:\Bigdb\dbBackups\BackupF5\backupF5.dmp'
```

```

exec sp_addumpdevice
'disk','tpccbackG5','C:\Bigdb\dbBackups\BackupG5\backupG5.dmp'
exec sp_addumpdevice
'disk','tpccbackH5','C:\Bigdb\dbBackups\BackupH5\backupH5.dmp'
exec sp_addumpdevice
'disk','tpccbackI5','C:\Bigdb\dbBackups\BackupI5\backupI5.dmp'
exec sp_addumpdevice
'disk','tpccbackJ5','C:\Bigdb\dbBackups\BackupJ5\backupJ5.dmp'
exec sp_addumpdevice
'disk','tpccbackK5','C:\Bigdb\dbBackups\BackupK5\backupK5.dmp'

go

```

BACKUPDEV_LOG.SQL

```

-----
--
-- File: BACKUPDEV_LOG.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-----

```

```

use master
go

-- create backup devices

exec sp_addumpdevice
'disk','tpccbackA9','C:\Bigdb\dbBackups\BackupA9\backupA9.dmp'
exec sp_addumpdevice
'disk','tpccbackB9','C:\Bigdb\dbBackups\BackupB9\backupB9.dmp'
exec sp_addumpdevice
'disk','tpccbackC9','C:\Bigdb\dbBackups\BackupC9\backupC9.dmp'
exec sp_addumpdevice
'disk','tpccbackD9','C:\Bigdb\dbBackups\BackupD9\backupD9.dmp'
exec sp_addumpdevice
'disk','tpccbackE9','C:\Bigdb\dbBackups\BackupE9\backupE9.dmp'
exec sp_addumpdevice
'disk','tpccbackF9','C:\Bigdb\dbBackups\BackupF9\backupF9.dmp'
exec sp_addumpdevice
'disk','tpccbackG9','C:\Bigdb\dbBackups\BackupG9\backupG9.dmp'
exec sp_addumpdevice
'disk','tpccbackH9','C:\Bigdb\dbBackups\BackupH9\backupH9.dmp'
exec sp_addumpdevice
'disk','tpccbackI9','C:\Bigdb\dbBackups\BackupI9\backupI9.dmp'
exec sp_addumpdevice
'disk','tpccbackJ9','C:\Bigdb\dbBackups\BackupJ9\backupJ9.dmp'
exec sp_addumpdevice
'disk','tpccbackK9','C:\Bigdb\dbBackups\BackupK9\backupK9.dmp'

go

```

BACKUPLOG.SQL

```

use master
go
select @@version
select getdate()
go
--DBCC TRACEON(3111)
--go
backup log tpcc to tpccbackA9,tpccbackB9,tpccbackC9,tpccbackD9,
tpccbackE9,tpccbackF9,tpccbackG9,tpccbackH9,
tpccbackI9,tpccbackJ9,tpccbackK9
with no_truncate, init, stats=1

go
select getdate()
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 = 4875MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscB1,
    FILENAME = "C:\Bigdb\cabB\misc1\\"",
    SIZE = 4875MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscC1,
    FILENAME = "C:\Bigdb\cabC\misc1\\"",
    SIZE = 4875MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscD1,
    FILENAME = "C:\Bigdb\cabD\misc1\\"",
    SIZE = 4875MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscE1,
    FILENAME = "C:\Bigdb\cabE\misc1\\"",

```



```

( NAME = MSSQL_miscJ8,
  FILENAME = "C:\Bigdb\cabJ\misc8\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscK8,
  FILENAME = "C:\Bigdb\cabK\misc8\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscA9,
  FILENAME = "C:\Bigdb\cabA\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscB9,
  FILENAME = "C:\Bigdb\cabB\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscC9,
  FILENAME = "C:\Bigdb\cabC\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscD9,
  FILENAME = "C:\Bigdb\cabD\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscE9,
  FILENAME = "C:\Bigdb\cabE\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscF9,
  FILENAME = "C:\Bigdb\cabF\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscG9,
  FILENAME = "C:\Bigdb\cabG\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscH9,
  FILENAME = "C:\Bigdb\cabH\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscI9,
  FILENAME = "C:\Bigdb\cabI\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscJ9,
  FILENAME = "C:\Bigdb\cabJ\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscK9,
  FILENAME = "C:\Bigdb\cabK\misc9\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscA10,
  FILENAME = "C:\Bigdb\cabA\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscB10,
  FILENAME = "C:\Bigdb\cabB\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscC10,
  FILENAME = "C:\Bigdb\cabC\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscD10,
  FILENAME = "C:\Bigdb\cabD\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscE10,
  FILENAME = "C:\Bigdb\cabE\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscF10,
  FILENAME = "C:\Bigdb\cabF\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscG10,
  FILENAME = "C:\Bigdb\cabG\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscH10,

```

```

  FILENAME = "C:\Bigdb\cabH\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscI10,
  FILENAME = "C:\Bigdb\cabI\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscJ10,
  FILENAME = "C:\Bigdb\cabJ\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
( NAME = MSSQL_miscK10,
  FILENAME = "C:\Bigdb\cabK\misc10\",
  SIZE = 4875MB, FILEGROWTH = 0),
FILEGROUP MSSQL_cs_fg
( NAME = MSSQL_csB1,
  FILENAME = "C:\Bigdb\cabB\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csC1,
  FILENAME = "C:\Bigdb\cabC\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csD1,
  FILENAME = "C:\Bigdb\cabD\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csE1,
  FILENAME = "C:\Bigdb\cabE\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csF1,
  FILENAME = "C:\Bigdb\cabF\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csG1,
  FILENAME = "C:\Bigdb\cabG\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csH1,
  FILENAME = "C:\Bigdb\cabH\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csI1,
  FILENAME = "C:\Bigdb\cabI\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csJ1,
  FILENAME = "C:\Bigdb\cabJ\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csK1,
  FILENAME = "C:\Bigdb\cabK\cs1\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csA2,
  FILENAME = "C:\Bigdb\cabA\cs2\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csB2,
  FILENAME = "C:\Bigdb\cabB\cs2\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csC2,
  FILENAME = "C:\Bigdb\cabC\cs2\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csD2,
  FILENAME = "C:\Bigdb\cabD\cs2\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csE2,
  FILENAME = "C:\Bigdb\cabE\cs2\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csF2,
  FILENAME = "C:\Bigdb\cabF\cs2\",
  SIZE = 9600MB, FILEGROWTH = 0),
( NAME = MSSQL_csG2,

```



```

    SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csA10,
  FILENAME = "C:\Bigdb\cabA\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csB10,
  FILENAME = "C:\Bigdb\cabB\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csC10,
  FILENAME = "C:\Bigdb\cabC\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csD10,
  FILENAME = "C:\Bigdb\cabD\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csE10,
  FILENAME = "C:\Bigdb\cabE\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csF10,
  FILENAME = "C:\Bigdb\cabF\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csG10,
  FILENAME = "C:\Bigdb\cabG\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csH10,
  FILENAME = "C:\Bigdb\cabH\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csI10,
  FILENAME = "C:\Bigdb\cabI\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csJ10,
  FILENAME = "C:\Bigdb\cabJ\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csK10,
  FILENAME = "C:\Bigdb\cabK\cs10\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
( NAME = MSSQL_csA1,
  FILENAME = "C:\Bigdb\cabA\cs1\",
  SIZE      = 9600MB,   FILEGROWTH = 0),
FILEGROUP MSSQL_ord_fg
( NAME = MSSQL_ordC1,
  FILENAME = "C:\Bigdb\cabC\ord1\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordD1,
  FILENAME = "C:\Bigdb\cabD\ord1\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordE1,
  FILENAME = "C:\Bigdb\cabE\ord1\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordF1,
  FILENAME = "C:\Bigdb\cabF\ord1\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordG1,
  FILENAME = "C:\Bigdb\cabG\ord1\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordH1,
  FILENAME = "C:\Bigdb\cabH\ord1\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordI1,
  FILENAME = "C:\Bigdb\cabI\ord1\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordJ1,
  FILENAME = "C:\Bigdb\cabJ\ord1\",

```

```

    SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordK1,
  FILENAME = "C:\Bigdb\cabK\ord1\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordA2,
  FILENAME = "C:\Bigdb\cabA\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordB2,
  FILENAME = "C:\Bigdb\cabB\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordC2,
  FILENAME = "C:\Bigdb\cabC\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordD2,
  FILENAME = "C:\Bigdb\cabD\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordE2,
  FILENAME = "C:\Bigdb\cabE\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordF2,
  FILENAME = "C:\Bigdb\cabF\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordG2,
  FILENAME = "C:\Bigdb\cabG\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordH2,
  FILENAME = "C:\Bigdb\cabH\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordI2,
  FILENAME = "C:\Bigdb\cabI\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordJ2,
  FILENAME = "C:\Bigdb\cabJ\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordK2,
  FILENAME = "C:\Bigdb\cabK\ord2\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordA3,
  FILENAME = "C:\Bigdb\cabA\ord3\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordB3,
  FILENAME = "C:\Bigdb\cabB\ord3\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordC3,
  FILENAME = "C:\Bigdb\cabC\ord3\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordD3,
  FILENAME = "C:\Bigdb\cabD\ord3\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordE3,
  FILENAME = "C:\Bigdb\cabE\ord3\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordF3,
  FILENAME = "C:\Bigdb\cabF\ord3\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordG3,
  FILENAME = "C:\Bigdb\cabG\ord3\",
  SIZE      = 6300MB,   FILEGROWTH = 0),
( NAME = MSSQL_ordH3,
  FILENAME = "C:\Bigdb\cabH\ord3\",
  SIZE      = 6300MB,   FILEGROWTH = 0),

```



```

FILENAME = "C:\Bigdb\cabB\ord1\",
SIZE     = 6300MB, FILEGROWTH = 0)
LOG ON
( NAME   = MSSQL_tpcc_log1,
  FILENAME = "C:\Bigdb\dblogs\tpcclog1\",
  SIZE = 358400MB, FILEGROWTH = 0),
( NAME   = MSSQL_tpcc_log2,
  FILENAME = "C:\Bigdb\dblogs\tpcclog2\",
  SIZE = 358400MB, 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. 4.51 --
--      Copyright Microsoft, 2003              --
--
--      Sets database options for load         --
--
-----

```

```

use master
go

ALTER DATABASE tpcc SET RECOVERY BULK_LOGGED
go

ALTER DATABASE tpcc SET TORN_PAGE_DETECTION OFF
go

use tpcc
go

checkpoint
go

```

DBOPT2.SQL

```

-----
--      File:  DBOPT2.SQL                      --
--      Microsoft TPC-C Benchmark Kit Ver. 4.51 --
--      Copyright Microsoft, 2003              --
--
--      Sets database options after data load  --
--
-----

```

```

--
-----
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 2000          --
-- Set option values for user-defined indexes --
-----

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

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

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

SELECT name,lockflags
FROM   sysindexes
WHERE  object_id('warehouse') = id OR
       object_id('district') = id OR
       object_id('customer') = id OR
       object_id('stock') = id OR
       object_id('orders') = id OR
       object_id('order_line') = id OR
       object_id('history') = id OR

```

```

        object_id('new_order') = id OR
        object_id('item')       = id
ORDER BY lockflags asc
GO

```

```

sp_configure 'allow updates',0
GO

```

```

RECONFIGURE WITH OVERRIDE
GO

```

```

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

```

```

EXEC sp_tableoption      'district',                'pintable',true
EXEC sp_tableoption      'warehouse',               'pintable',true
EXEC sp_tableoption      'new_order',               'pintable',true
EXEC sp_tableoption      'item',                   'pintable',true
GO

```

REMOVEDB.SQL

```

-----
--
-- File:   REMOVEDB.SQL
--         Microsoft TPC-C Benchmark Kit Ver. 4.51
--         Copyright Microsoft, 2003
-- Purpose: Removes tpcc database and backup files
--
-----

```

```

use master
go

```

```

-- remove any existing database and backup files

```

```

exec sp_dbremove tpcc, dropdev
go

```

```

exec sp_dropdevice 'tpccbackA6'
exec sp_dropdevice 'tpccbackB6'
exec sp_dropdevice 'tpccbackC6'
exec sp_dropdevice 'tpccbackD6'
exec sp_dropdevice 'tpccbackE6'
exec sp_dropdevice 'tpccbackF6'
exec sp_dropdevice 'tpccbackG6'
exec sp_dropdevice 'tpccbackH6'
exec sp_dropdevice 'tpccbackI6'
exec sp_dropdevice 'tpccbackJ6'
exec sp_dropdevice 'tpccbackK6'

```

```

exec sp_dropdevice 'tpccbackA5'
exec sp_dropdevice 'tpccbackB5'
exec sp_dropdevice 'tpccbackC5'
exec sp_dropdevice 'tpccbackD5'
exec sp_dropdevice 'tpccbackE5'
exec sp_dropdevice 'tpccbackF5'
exec sp_dropdevice 'tpccbackG5'

```

```

exec sp_dropdevice 'tpccbackH5'
exec sp_dropdevice 'tpccbackI5'
exec sp_dropdevice 'tpccbackJ5'
exec sp_dropdevice 'tpccbackK5'

```

```

go

```

RESTORE.SQL

```

-----
--
-- File:   RESTORE.SQL
--         Microsoft TPC-C Benchmark Kit Ver. 4.51
--         Copyright Microsoft, 2003
-- Purpose: Loads database backup from backup files
--
-----

```

```

sp_configure 'max server memory', 60000
go
reconfigure with override
go

```

```

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\BackupA6\backupA6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupB6\backupB6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupC6\backupC6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupD6\backupD6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupE6\backupE6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupF6\backupF6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupG6\backupG6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupH6\backupH6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupI6\backupI6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupJ6\backupJ6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupK6\backupK6.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupA5\backupA5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupB5\backupB5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupC5\backupC5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupD5\backupD5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupE5\backupE5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupF5\backupF5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupG5\backupG5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupH5\backupH5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupI5\backupI5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupJ5\backupJ5.dmp',
DISK = 'C:\Bigdb\dbBackups\BackupK5\backupK5.dmp'
with replace, stats = 1,blocksize=65536

```

```

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

```

```

go
sp_configure 'max server memory', 126000
go
reconfigure with override

```

SETUP.VBS

```

'-----
'--- FILE:          SETUP.VBS
'---               Microsoft TPC-C Kit Ver. 4.51
'---               Copyright Microsoft, 2001, 2002, 2003
'---               All Rights Reserved
'---
'--- PURPOSE:      This module performs the tasks to create and populate a
TPC-C database
'---
'-----
'--- set the kit version variable for later display
'-----
Kit_Version = " 4.51"
'-----
'--- open an windows scripting object
'-----
Set WshShell = CreateObject("WScript.Shell")
'-----
'--- set up windows scripting argument collection
'-----
Set ObjArgs = wScript.ARGUMENTS
'-----
'--- grab the platform, ia64 or x86, from the environment variables
'-----
Platform =
Left(WshShell.ExpandEnvironmentStrings("%PROCESSOR_IDENTIFIER%"), 4)
'-----
'--- grab the processor architecture. This is to determine if the
'--- user is trying to run in 32-bit emulation on a 64-bit machine.
'--- if that is the case, then display a message and exit.
'-----
Proc_Architecture =
WshShell.ExpandEnvironmentStrings("%PROCESSOR_ARCHITECTURE%")
If Platform = "ia64" And Proc_Architecture = "x86" Then
    wScript.Echo
    "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
    wScript.Echo "!!"
    wScript.Echo "!! You are attempting to run this SETUP in the 32-
bit (WOW) emulation !!"
    wScript.Echo "!! mode on an ia64 system. Please restart the SETUP
in a native    !!"
    wScript.Echo "!! 64-bit environment.
    !!"

```

```

wScript.Echo "!!"
!!"
wScript.Echo
"!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
wScript.Quit
End If
'-----
'--- before we go any further, make sure that
'--- we are running Windows Scripting Host 5.6
'--- or higher
'-----
If wScript.Version < 5.6 Then
    wScript.Echo
    "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
    wScript.Echo "!!"
    wScript.Echo "!! You do not have the proper version of the Windows
Scripting Host    !!"
    wScript.Echo "!! installed. Please install the latest Windows
Scripting Host from    !!"
    wScript.Echo "!! ..\tools\wsh\scripten.exe and restart setup.
    !!"
    wScript.Echo "!!"
    wScript.Echo
    "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
    wScript.Quit
End If
'-----
'--- display banner message
'-----
wScript.Echo
"*****"
wScript.Echo "*"
wScript.Echo "*" Microsoft TPC-C Benchmark Kit Ver." & Kit_Version & "
wScript.Echo "*"
wScript.Echo "*" Database Setup
wScript.Echo "*"
wScript.Echo "*"
wScript.Echo
"*****"
'-----
'--- define function to check for any error messages
'-----
Function CheckSQLOutput(SQL_Out)
    ErrorFlag = 0
    Set SQL_fso = CreateObject("Scripting.FileSystemObject")
    If SQL_fso.FileExists(SQL_Out) Then
        Set SQL_Out_File = SQL_fso.OpenTextFile(SQL_Out, 1)
        Do While SQL_Out_File.AtEndOfStream <> True
            SQL_Line = SQL_Out_File.ReadLine
            'first check to see if the output contains a
message about the login password
            If InStr(SQL_Line, "Login failed") Then
                'display the messages and get out of here

```



```

                Case Else
                    rc = MsgBox("Invalid
Database Build Option.", 21)

                    If rc = 2 Then
                        wScript.Echo ""
                        wScript.Echo "TPC-
C Setup cancelled by user."

                        wScript.Quit
                    End If
                    Flag = 0
                    TempResponse =
InputBox("Build Option:" & Chr(13) &
"(full,builddb,objects,objectsfull,bulkload,bulkloadfull,backup)", ,
"full")

                    TempResponse =
LCase(TempResponse)

                End Select

                Loop
                Case "DatabaseType"
                    TempResponse = InputBox("Database Type:" & Chr(13)
& "(normal or scale_down)", "TPC-C Setup", "normal")
                    TempResponse = LCase(TempResponse)
                    '--- set flag
                    Flag = 0
                    Do While Flag = 0
                        Select Case TempResponse
                            Case "normal"
                                TempResponse = "0"
                                Flag = 1
                            Case "scale_down"
                                TempResponse = "1"
                                Flag = 1
                            Case Else
                                rc = MsgBox("Invalid
Database Type.", 21)

                                If rc = 2 Then
                                    wScript.Echo ""
                                    wScript.Echo "TPC-
C Setup cancelled by user."

                                    wScript.Quit
                                End If
                                Flag = 0
                                TempResponse =
InputBox("Database Type:" & Chr(13) & "(normal or scale_down)", ,
"normal")

                                TempResponse =
LCase(TempResponse)

                            End Select

                            Loop
                            Case "UnattendedBuild"
                                TempResponse = InputBox("Unattended Build?:" &
Chr(13) & "(true or false)", "TPC-C Setup", "false")
                                TempResponse = LCase(TempResponse)
                                '--- set flag
                                Flag = 0
                                Do While TempResponse = ""
                                    rc = MsgBox("You must enter true or false
for Unattended Build.", 21)

                                    If rc = 2 Then
                                        wScript.Echo ""

```

```

wScript.Echo "TPC-C Setup
cancelled by user."

wScript.Quit
                End If
                TempResponse = InputBox("Unattended
Build?:" & Chr(13) & "(true or false)", "TPC-C Setup", "false")
                TempResponse = LCase(TempResponse)

                Loop

                End Select
                GetUserInput = TempResponse
            End Function
'-----
'--- end function
'-----
'--- Initialize an array of the TPC-C table names
'-----
Dim TableArray(9)
TableArray(0) = "warehouse"
TableArray(1) = "district"
TableArray(2) = "customer"
TableArray(3) = "history"
TableArray(4) = "new_order"
TableArray(5) = "orders"
TableArray(6) = "order_line"
TableArray(7) = "item"
TableArray(8) = "stock"
TableArray(9) = "tpccldr"
'-----
'--- Initialize an array of the TPC-C build log file names
'-----
Dim LogFileArray(21)
LogFileArray(0) = "version.log"
LogFileArray(1) = "removedb.log"
LogFileArray(2) = "createdb.log"
LogFileArray(3) = "tables.log"
LogFileArray(4) = "dbopt1.log"
LogFileArray(5) = "idxordcl.log"
LogFileArray(6) = "idxitmcl.log"
LogFileArray(7) = "idxwarcl.log"
LogFileArray(8) = "idxcuscl.log"
LogFileArray(9) = "idxnodcl.log"
LogFileArray(10) = "idxdiscl.log"
LogFileArray(11) = "idxstkcl.log"
LogFileArray(12) = "idxodlcl.log"
LogFileArray(13) = "idxcusnc.log"
LogFileArray(14) = "idxhiscl.log"
LogFileArray(15) = "idxordnc.log"
LogFileArray(16) = "bulkload.log"
LogFileArray(17) = "dbopt2.log"
LogFileArray(18) = "nurand_load.log"
LogFileArray(19) = "backupdev.log"
LogFileArray(20) = "backupdev.log"
LogFileArray(21) = "verifyload.log"
'-----
'--- open a file system object
'-----
Set fs = CreateObject("Scripting.FileSystemObject")
'-----
'--- grab the current directory value
'-----

```

```

SetupDirectory = WshShell.CurrentDirectory & "\"
'-----
'--- now calculate the other directories
'-----
ACIDDirectory = Left(SetupDirectory, (Len(SetupDirectory) - 6))
ScriptDirectory = SetupDirectory & "SCRIPTS\"
LogDirectory = SetupDirectory & "LOGS\"
'-----
'--- first see if the user passed a "?" as the first parameter
'--- if they did, then show the usage data
'-----
If ObjArgs.Length > 0 Then
    If ObjArgs(0) = "?" or ObjArgs(0) = "/"? Then
        Call ShowUsage
    End If
End If
'-----
'--- now determine if the user passed us any parameters.
'--- the order should be ServerName, sa Password, Number of Warehouses,
'--- Build Option, and Database Type
'-----
Select Case ObjArgs.Length
    Case 0
        '-----
        '--- get the server name
        '-----
        ServerName = GetUserInput("ServerName")
        If ServerName = "" Then
            ServerName =
WshShell.ExpandEnvironmentStrings("%COMPUTERNAME%")
        End If
        '-----
        '--- get the SQL Server user id
        '-----
        SQLUserID = GetUserInput("SQLUserID")
        '-----
        '--- get the sa password
        '-----
        saPassword = GetUserInput("saPassword")
        '-----
        '--- get the number of warehouses
        '-----
        NumberWarehouses = GetUserInput("NumberWarehouses")
        '-----
        '--- get the build option
        '-----
        BuildOption = GetUserInput("BuildOption")
        '-----
        '--- get the database type
        '-----
        DatabaseType = (GetUserInput("DatabaseType"))
        If DatabaseType = "scale_down" Then
            DatabaseType = 1
        Else
            DatabaseType = 0
        End If
        '-----
        '--- unattended install
        '-----
        UnattendedBuild = GetUserInput("UnattendedBuild")
    Case 1

```

```

'-----
'--- assume that the server name was passed correctly
'-----
'--- store the server name
'-----
ServerName = ObjArgs(0)
If ServerName = "" Then
    ServerName =
WshShell.ExpandEnvironmentStrings("%COMPUTERNAME%")
End If
'-----
'--- get the SQL Server user id
'-----
SQLUserID = GetUserInput("SQLUserID")
'-----
'--- get the sa password
'-----
saPassword = GetUserInput("saPassword")
'-----
'--- get the number of warehouses
'-----
NumberWarehouses = GetUserInput("NumberWarehouses")
'-----
'--- get the build option
'-----
BuildOption = GetUserInput("BuildOption")
'-----
'--- get the database type
'-----
DatabaseType = (GetUserInput("DatabaseType"))
If DatabaseType = "scale_down" Then
    DatabaseType = 1
Else
    DatabaseType = 0
End If
'-----
'--- unattended install
'-----
UnattendedBuild = GetUserInput("UnattendedBuild")
Case 2
'-----
'--- assume that the server name and SQL Server user ID
was passed correctly
'-----
'--- store the server name
'-----
ServerName = ObjArgs(0)
If ServerName = "" Then
    ServerName =
WshShell.ExpandEnvironmentStrings("%COMPUTERNAME%")
End If
'-----
'--- store the SQL Server user id
'-----
SQLUserID = ObjArgs(1)
'-----
'--- store the sa password

```

```

-----
saPassword = ObjArgs(2)
-----
'--- get the number of warehouses
-----
NumberWarehouses = GetUserInput("NumberWarehouses")
-----
'--- get the build option
-----
BuildOption = GetUserInput("BuildOption")
-----
'--- get the database type
-----
DatabaseType = (GetUserInput("DatabaseType"))
If DatabaseType = "scale_down" Then
    DatabaseType = 1
Else
    DatabaseType = 0
End If
-----
'--- unattended install
-----
UnattendedBuild = GetUserInput("UnattendedBuild")
-----
Case 3
-----
'--- assume that the server name, SQL Server user ID, SQL
Server password were passed correctly
-----
-----
'--- store the server name
-----
ServerName = ObjArgs(0)
If ServerName = "" Then
    ServerName =
WshShell.ExpandEnvironmentStrings("%COMPUTERNAME%")
End If
-----
'--- store the SQL Server user id
-----
SQLUserID = ObjArgs(1)
-----
'--- store the sa password
-----
saPassword = ObjArgs(2)
-----
'--- store the number of warehouses
-----
NumberWarehouses = ObjArgs(3)
-----
'--- get the build option
-----
BuildOption = GetUserInput("BuildOption")
-----
'--- get the database type
-----
DatabaseType = (GetUserInput("DatabaseType"))
If DatabaseType = "scale_down" Then
    DatabaseType = 1
Else

```

```

-----
DatabaseType = 0
End If
-----
'--- unattended install
-----
UnattendedBuild = GetUserInput("UnattendedBuild")
-----
Case 4
-----
'--- assume that the server name, SQL Server user ID, SQL
Server password, and number of warehouses were passed correctly
-----
-----
'--- store the server name
-----
ServerName = ObjArgs(0)
If ServerName = "" Then
    ServerName =
WshShell.ExpandEnvironmentStrings("%COMPUTERNAME%")
End If
-----
'--- store the SQL Server user id
-----
SQLUserID = ObjArgs(1)
-----
'--- store the sa password
-----
saPassword = ObjArgs(2)
-----
'--- store the number of warehouses
-----
NumberWarehouses = ObjArgs(3)
-----
'--- store the build option
-----
BuildOption = LCase(ObjArgs(4))
-----
'--- get the database type
-----
DatabaseType = (GetUserInput("DatabaseType"))
If DatabaseType = "scale_down" Then
    DatabaseType = 1
Else
    DatabaseType = 0
End If
-----
'--- unattended install
-----
UnattendedBuild = GetUserInput("UnattendedBuild")
-----
Case 5
-----
'--- assume that the server name, SQL Server user ID, SQL
Server password, and number of warehouses,
'--- build option were passed correctly
-----
-----
'--- store the server name
-----

```

```

        ServerName = ObjArgs(0)
        If ServerName = "" Then
            ServerName =
WshShell.ExpandEnvironmentStrings("%COMPUTERNAME%")
        End If
        '-----
        '--- store the SQL Server user id
        '-----
        SQLUserID = ObjArgs(1)
        '-----
        '--- store the sa password
        '-----
        saPassword = ObjArgs(2)
        '-----
        '--- store the number of warehouses
        '-----
        NumberWarehouses = ObjArgs(3)
        '-----
        '--- store the build option
        '-----
        BuildOption = LCase(ObjArgs(4))
        '-----
        '--- get the database type
        '-----
        DatabaseType = (GetUserInput("DatabaseType"))
        If DatabaseType = "scale_down" Then
            DatabaseType = 1
        Else
            DatabaseType = 0
        End If
        '-----
        '--- unattended install
        '-----
        UnattendedBuild = GetUserInput("UnattendedBuild")
Case 6
'-----
'--- assume that the server name, SQL Server user ID, SQL
Server password, and number of warehouses,
'--- build option, and database type were passed correctly
'-----
'-----
'--- store the server name
'-----
        ServerName = ObjArgs(0)
        If ServerName = "" Then
            ServerName =
WshShell.ExpandEnvironmentStrings("%COMPUTERNAME%")
        End If
        '-----
        '--- store the SQL Server user id
        '-----
        SQLUserID = ObjArgs(1)
        '-----
        '--- store the sa password
        '-----
        saPassword = ObjArgs(2)
        '-----
        '--- store the number of warehouses
        '-----
        NumberWarehouses = ObjArgs(3)
        '-----
        '--- store the build option
        '-----
        BuildOption = LCase(ObjArgs(4))
        '-----
        '--- get the database type
        '-----
        DatabaseType = LCase(ObjArgs(5))
        If DatabaseType = "scale_down" Then
            DatabaseType = 1
        Else
            DatabaseType = 0
        End If
        '-----
        '--- unattended install
        '-----
        UnattendedBuild = LCase(ObjArgs(6))

```

```

        NumberWarehouses = ObjArgs(3)
        '-----
        '--- store the build option
        '-----
        BuildOption = LCase(ObjArgs(4))
        '-----
        '--- get the database type
        '-----
        DatabaseType = LCase(ObjArgs(5))
        If DatabaseType = "scale_down" Then
            DatabaseType = 1
        Else
            DatabaseType = 0
        End If
        '-----
        '--- unattended install
        '-----
        UnattendedBuild = GetUserInput("UnattendedBuild")
Case 7
'-----
'--- assume was passed correctly
'-----
'-----
'--- store the server name
'-----
        ServerName = ObjArgs(0)
        If ServerName = "" Then
            ServerName =
WshShell.ExpandEnvironmentStrings("%COMPUTERNAME%")
        End If
        '-----
        '--- store the SQL Server user id
        '-----
        SQLUserID = ObjArgs(1)
        '-----
        '--- store the sa password
        '-----
        saPassword = ObjArgs(2)
        '-----
        '--- store the number of warehouses
        '-----
        NumberWarehouses = ObjArgs(3)
        '-----
        '--- store the build option
        '-----
        BuildOption = LCase(ObjArgs(4))
        '-----
        '--- get the database type
        '-----
        DatabaseType = LCase(ObjArgs(5))
        If DatabaseType = "scale_down" Then
            DatabaseType = 1
        Else
            DatabaseType = 0
        End If
        '-----
        '--- unattended install
        '-----
        UnattendedBuild = LCase(ObjArgs(6))

```

```

End Select
'-----
'--- if the user specified a scale down database, then show
'--- them the warning message
'-----
If DatabaseType = 1 Then
    MsgBox "WARNING!" & Chr(13) & "The Scale_Down option is to be used
for functional testing only." _
        & Chr(13) & "The use of this option will not
produce a valid TPC-C result.", _
        vbExclamation, "Scale-Down Warning"
End If
'-----
'--- before we start to do anything, verify the input
'-----
Select Case BuildOption
    Case "full"
        strBuildOpt = "Full build"
    Case "bulddb"
        strBuildOpt = "Build database only"
    Case "objects"
        strBuildOpt = "Install stored procedures only"
    Case "objectsfull"
        strBuildOpt = "Install stored procedures and complete
build process"
    Case "bulkload"
        strBuildOpt = "Load data only"
    Case "bulkloadfull"
        strBuildOpt = "Load data and complete build process"
    Case "backup"
        strBuildOpt = "Backup database"
End Select
If DatabaseType = 1 Then
    strDBType = "Scale Down"
Else
    strDBType = "Normal"
End If
If UnattendedBuild = "false" Then
    rc = MsgBox("The following options will be used:" & Chr(13) &
Chr(10) & Chr(13) & Chr(10) _
        & "Database Server
Name:      " & ServerName & Chr(13) & Chr(10) _
        & Chr(13) &
Chr(10) _
        & "SQL Server User
ID:        " & SQLUserID & Chr(13) & Chr(10) _
        & Chr(13) &
Chr(10) _
        & "SQL Server
Password:  " & saPassword & Chr(13) & Chr(10) _
        & Chr(13) &
Chr(10) _
        & "Number of
Warehouses: " & NumberWarehouses & Chr(13) & Chr(10) _
        & Chr(13) &
Chr(10) _
        & "Build Option:
" & strBuildOpt & Chr(13) & Chr(10) _
        & Chr(13) &
Chr(10) _

```

```

& "Build Type:
" & strDBType & Chr(13) & Chr(10) _
        & "
", 65, "TPC-C Setup Option Verification")
    If rc = 2 Then
        wScript.Echo ""
        wScript.Echo "TPC-C Setup cancelled by user."
        wScript.Quit
    End If
End If
'-----
'--- now that we have all the variables filled in, let's get to work
'--- cleanup any old .err files
'-----
For i = 0 To 9
    If fs.FileExists(LogPath & TableArray(i) & ".err") Then
        fs.DeleteFile LogPath & TableArray(i) & ".err"
    End If
Next
For i = 0 To 21
    If fs.FileExists(LogPath & LogFileArray(i)) Then
        fs.DeleteFile LogPath & LogFileArray(i)
    End If
Next
'-----
'--- now grab the version of SQL Server you are running this against
'-----
Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" & saPassword & " -
S" & ServerName & " -e -i" & ScriptDirectory & "utility\version.sql -o" &
LogDirectory & "version.log")
Do While oExec.Status = 0
    wScript.Sleep 100
Loop
rc = CheckSQLOutput(LogDirectory & "version.log")
If rc <> 0 Then
    wScript.Quit
End If
'-----
'--- okay, let's do it
'-----
If (BuildOption = "full" _
Or BuildOption = "bulddb") Then
    wScript.Echo "Removing any existing TPCC database and backup
devices..."
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
NumberWarehouses & ".war\database\removedb.sql -o" & LogDirectory &
"removedb.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "removedb.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    wScript.Echo "Building database files and database..."
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
NumberWarehouses & ".war\database\createdb.sql -o" & LogDirectory &
"createdb.log")
    Do While oExec.Status = 0

```

```

        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "createdb.log")
    If rc <> 0 Then
        wScript.Quit
    End If
End If
'-----
'--- build tables and stored procedures
'-----
If (BuildOption = "full"
    Or BuildOption = "objects"
    Or BuildOption = "objectsfull") Then
    wScript.Echo "Creating TPC-C database tables..."
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
NumberWarehouses & ".war\ddl\tables.sql -o" & LogDirectory & "tables.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "tables.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    wScript.Echo "Creating database objects..."
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
"dml\neword.sql -o" & LogDirectory & "sp_neword.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "sp_neword.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
"dml\payment.sql -o" & LogDirectory & "sp_payment.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "sp_payment.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
"dml\ordstat.sql -o" & LogDirectory & "sp_ordstat.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "sp_ordstat.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
"dml\delivery.sql -o" & LogDirectory & "sp_delivery.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop

```

```

    rc = CheckSQLOutput(LogDirectory & "sp_delivery.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
"dml\stocklev.sql -o" & LogDirectory & "sp_stocklev.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "sp_stocklev.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
"dml\version.sql -o" & LogDirectory & "sp_version.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "sp_version.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    wScript.Echo "Database object creation complete..."
End If
If (BuildOption = "full"
    Or BuildOption = "objectsfull"
    Or BuildOption = "bulkload"
    Or BuildOption = "bulkloadfull") Then
    wScript.Echo "Setting database options before load..."
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
"utility\dbopt1.sql -o" & LogDirectory & "dbopt1.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "dbopt1.log")
    If rc <> 0 Then
        wScript.Quit
    End If
'-----
'--- before we start tpccldr.exe, check the registry
'--- to ensure that the Shared Memory Protocol is off.
'--- if it is on, store the setting so we can return
'--- the system to the pre-tpccldr state.
'-----
    SharedMemoryRegKey =
WshShell.RegRead("HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client
\SharedMemoryOn")
    If SharedMemoryRegKey = 1 Then
        WshShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SharedMemoryOn",
0, "REG_DWORD"
    End If
    If Platform = "ia64" Then
        wScript.Echo "Loading data and creating indexes..."
        wScript.Echo "(This runs in a separate, minimized
window.)"
        CMD_String = SetupDirectory &
"loader\bin\ia64\tpccldr.exe"

```

```

        CMD_String = CMD_String & " -S" & ServerName
        CMD_String = CMD_String & " -U" & SQLUserID
        CMD_String = CMD_String & " -P" & saPassword
        CMD_String = CMD_String & " -W" & NumberWarehouses
        CMD_String = CMD_String & " -f" & LogDirectory &
"bulkload.log"
        CMD_String = CMD_String & " -L" & LogDirectory
        CMD_String = CMD_String & " -d" & ScriptDirectory &
NumberWarehouses & ".war\ddl"
        CMD_String = CMD_String & " -c" & DatabaseType
    Else
        wScript.Echo "Loading data and creating indexes..."
        wScript.Echo "(This runs in a separate, minimized
window.)"
        CMD_String = SetupDirectory & "loader\bin\x86\tpccldr.exe"
        CMD_String = CMD_String & " -S" & ServerName
        CMD_String = CMD_String & " -U" & SQLUserID
        CMD_String = CMD_String & " -P" & saPassword
        CMD_String = CMD_String & " -W" & NumberWarehouses
        CMD_String = CMD_String & " -f" & LogDirectory &
"bulkload.log"
        CMD_String = CMD_String & " -L" & LogDirectory
        CMD_String = CMD_String & " -d" & ScriptDirectory &
NumberWarehouses & ".war\ddl"
        CMD_String = CMD_String & " -c" & DatabaseType
    End If
    oExec = WshShell.Run(CMD_String, 2, True)
    If oExec <> 0 Then
        wScript.Echo "The TPCCLDR.EXE encountered an error."
        wScript.Echo "Check logs\TPCCLDR.ERR for details."
        wScript.Quit
    End If
    '-----
    '--- now that the loader is finished, put the
    '--- SharedMemoryOn registry key back to its original
    '--- value.
    '-----
    If SharedMemoryRegKey = 1 Then
        WshShell.RegWrite
"HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SharedMemoryOn",
1, "REG_DWORD"
    End If
    wScript.Echo "Setting database options after load..."
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
"utility\dbopt2.sql -o" & LogDirectory & "dbopt2.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "dbopt2.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    wScript.Echo "Data load and index creation complete."
    '-----
    '--- now parse the index creation logs
    '--- to see if there were any errors
    '--- there.
    '-----
    For i = 5 To 15
        rc = CheckSQLOutput(LogDirectory & LogFileArray(i))

```

```

        If rc <> 0 Then
            wScript.Quit
        End If
    Next
    wScript.Echo "Calculating initial database space usage..."
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ACIDDirectory &
"space\scripts\spused.sql -o" & ACIDDirectory & "space\spused.ver")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ACIDDirectory &
"space\scripts\splog.sql -o" & ACIDDirectory & "space\splog.ver")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ACIDDirectory &
"space\scripts\spfiles.sql -o" & ACIDDirectory & "space\spfiles.ver")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    '-----
    '--- now that the loader is finished
    '--- check the .err files and if they
    '--- are of zero length, delete them.
    '-----
    Set fsErr = CreateObject("Scripting.FileSystemObject")
    Set fErr = fsErr.GetFolder(LogDirectory)
    Set fcErr = fErr.Files
    For Each fl In fcErr
        If fl.Type = "ERR File" Then
            If fl.Size = 0 Then
                fl.Delete
            End If
        End If
    Next
    Set fcErr = Nothing
    Set fErr = Nothing
    Set fsErr = Nothing
End If
If (BuildOption = "full" _
Or BuildOption = "objectsfull" _
Or BuildOption = "bulkloadfull" _
Or BuildOption = "backup") Then
    wScript.Echo "Creating Backup Device(s)..."
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
NumberWarehouses & ".war\database\backupdev.sql -o" & LogDirectory &
"backupdev.log")
    Do While oExec.Status = 0
        wScript.Sleep 100
    Loop
    rc = CheckSQLOutput(LogDirectory & "backupdev.log")
    If rc <> 0 Then
        wScript.Quit
    End If
    wScript.Echo "Backing up database..."
    Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &

```

```

NumberWarehouses & ".war\database\backup.sql -o" & LogDirectory &
"backup.log")
  Do While oExec.Status = 0
    wScript.Sleep 100
  Loop
  rc = CheckSQLOutput(LogDirectory & "backup.log")
  If rc <> 0 Then
    wScript.Quit
  End If
  wScript.Echo "Database backup complete."
End If
If (BuildOption = "full" _
Or BuildOption = "objectsfull" _
Or BuildOption = "bulkloadfull") Then
  wScript.Echo "Verifying TPC-C database load..."
  Set oExec = WshShell.Exec("osql -U" & SQLUserID & " -P" &
saPassword & " -S" & ServerName & " -e -i" & ScriptDirectory &
"utility\verifytpccload.sql -o" & LogDirectory & "verifyload.log")
  Do While oExec.Status = 0
    wScript.Sleep 100
  Loop
  rc = CheckSQLOutput(LogDirectory & "verifyload.log")
  If rc <> 0 Then
    wScript.Quit
  End If
  wScript.Echo "Check logs\verifyload.log to verify database load."
End If
'-----
'--- display banner message
'-----
wScript.Echo
"*****"
***"
wScript.Echo "*"
*"
wScript.Echo "*" Microsoft TPC-C Benchmark Kit Ver." & Kit_Version & "
*"
wScript.Echo "*"
*"
wScript.Echo "*" Database Setup Complete
*"
wScript.Echo "*"
*"
wScript.Echo
"*****"
***"
wScript.Quit
'-----
'--- ShowUsage
'-----
Function ShowUsage()
  wScript.Echo
"*****"
***"
  wScript.Echo "*"
*"
  wScript.Echo "*" Microsoft TPC-C Benchmark Kit Ver." & Kit_Version
& "
  wScript.Echo "*"
*"

```

```

wScript.Echo "** Usage:
*"
wScript.Echo "**      Optionally, you can pass the following
positional arguments to SETUP *"
wScript.Echo "**      - Server Name (can be """" for local host)
*"
wScript.Echo "**      - SQL Server User ID (recommended you use
sa)
*"
wScript.Echo "**      - SQL Sever Account Password
*"
wScript.Echo "**      - Number of Warehouses to Build
*"
wScript.Echo "**      - Build Option
*"
wScript.Echo "**
[full,builddb,objects,objectsfull,bulkload,bulkloadfull,backup] *"
wScript.Echo "**      - Database Type
*"
wScript.Echo "**      [normal or scale_down]
*"
wScript.Echo "**      - Unattended Install
*"
wScript.Echo "**      [true or false]
*"
wScript.Echo "**
*"
wScript.Echo "**      If you do not pass the parameters, then you
will be prompted for the "*"
wScript.Echo "**      information by the application.
*"
wScript.Echo "**
*"
wScript.Echo
"*****"
***"
  wScript.Quit
End Function

```

SQLSHUTDOWN.SQL

```

-----
--
-- File:      SQLSHUTDOWN.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.51
--           Copyright Microsoft, 2003
--
--           Checkpoints tpcc database and issues a shutdown
--
-----
use tpcc
go

checkpoint
go

shutdown
go

```

VERIFYTPCCLOAD

```
-----
--
-- File:  VERIFYTPCCLOAD.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Performs series of TPC-C database checks to
-- verify that database load completed correctly
--
-----

print ' '
select convert(char(30), getdate(), 21)
print ' '

use tpcc
go

-----
-- Check rows per table
-----

print 'WAREHOUSE TABLE'
select count_big(*)
from warehouse
go

print 'DISTRICT TABLE = (10 * No of warehouses)'
select count_big(*)
from district
go

print 'CUSTOMER TABLE = (30,000 * No of warehouses)'
select count_big(*)
from customer
go

print 'HISTORY TABLE = (30,000 * No of warehouses)'
select count_big(*)
from history
go

print 'ORDERS TABLE = (30,000 * No of warehouses)'
select count_big(*)
from orders
go

print 'NEW_ORDER TABLE = (9,000 * No of warehouses)'
select count_big(*)
from new_order
go

print 'ORDER_LINE TABLE = (300,000 * No of warehouses + some change)'
select count_big(*)
from order_line
go
```

```
print 'STOCK TABLE = (100,000 * No of warehouses)'
select count_big(*)
from stock
go

print 'ITEM TABLE = 100,000'
select count_big(*)
from item
go

-----
-- Check indices
-----

print '----- Index Check -----'

use tpcc
go

sp_helpindex warehouse
go

sp_helpindex district
go

sp_helpindex customer
go

sp_helpindex history
go

sp_helpindex orders
go

sp_helpindex new_order
go

sp_helpindex order_line
go

sp_helpindex stock
go

sp_helpindex item
go
```

VERSION.SQL

```
-----
--
-- File:  VERSION.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- 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:      4.10.000 --
--
```

```
-----
use tpcc
go

if exists ( select name from sysobjects where name = 'tpcc_version' )
    drop procedure tpcc_version
go

create proc tpcc_version
as
declare @version      char(8)

begin
    select @version = '4.10.000'
    select @version as 'Version'
end

go
```

Tables

IDXCUSCL.SQL

```
-----
--
-- File:  IDXCUSCL.SQL --
-- Microsoft TPC-C Benchmark Kit Ver. 4.51 --
-- Copyright Microsoft, 2003 --
--
-- Creates clustered index on customer table --
--
-----
```

```
use tpcc
go

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

if exists ( select name from sysindexes where name = 'customer_c1' )
    drop index customer.customer_c1

create unique clustered index customer_c1 on customer(c_w_id, c_id,
c_d_id)
on MSSQL_cs_fg
```

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

go

IDXCUSNC.SQL

```
-----
--
-- File:  IDXCUSNC.SQL --
-- Microsoft TPC-C Benchmark Kit Ver. 4.51 --
-- Copyright Microsoft, 2003 --
--
-- Creates non-clustered index on customer table --
--
-----
```

use tpcc
go

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

if exists ( select name from sysindexes where name = 'customer_nc1' )
    drop index customer.customer_nc1

create unique nonclustered index customer_nc1 on customer(c_w_id, c_d_id,
c_last, c_first, c_id)
with SORT_IN_TEMPDB
on MSSQL_cs_fg

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

go

IDXDISCL.SQL

```
-----
--
-- File:  IDXDISCL.SQL --
-- Microsoft TPC-C Benchmark Kit Ver. 4.51 --
-- Copyright Microsoft, 2003 --
--
-- Creates clustered index on district table --
--
-----
```

use tpcc
go

```

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

if exists ( select name from sysindexes where name = 'district_c1' )
    drop index district.district_c1

create unique clustered index district_c1 on district(d_w_id, d_id)
with fillfactor=100 on MSSQL_misc_fg

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

go

```

IDXHISCL.SQL

```

-----
--
-- File:  IDXHISCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- 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
declare @enddate datetime
select @startdate = getdate()
select 'Start date:', convert(varchar(30),@startdate,9)

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_id, h_c_d_id, h_amount)
on MSSQL_misc_fg

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

go

```

IDXITMCL.SQL

```

-----
--
-- File:  IDXITMCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Creates clustered index on item table
--
-----

```

```

use tpcc
go

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

if exists ( select name from sysindexes where name = 'item_c1' )
    drop index item.item_c1

create unique clustered index item_c1 on item(i_id)
on MSSQL_misc_fg

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

go

```

IDXNODCL.SQL

```

-----
--
-- File:  IDXNODCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Creates clustered index on new_order table
--
-----

```

```

use tpcc
go

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

if exists ( select name from sysindexes where name = 'new_order_c1' )
    drop index new_order.new_order_c1

create unique clustered index new_order_c1 on new_order(no_w_id, no_d_id,
no_o_id)
with pad_index, fillfactor=90
on MSSQL_ord_fg

```

```

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

go

```

IDXODLCL.SQL

```

-----
-- File:  IDXODLCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Creates clustered index on order_line table
-----

```

```

use tpcc
go

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

if exists ( select name from sysindexes where name = 'order_line_c1' )
    drop index order_line.order_line_c1

create unique clustered index order_line_c1 on order_line(ol_w_id,
ol_d_id, ol_o_id, ol_number)
on MSSQL_ord_fg

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

go

```

IDXORDCL.SQL

```

-----
-- File:  IDXORDCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Creates clustered index on orders table
-----

```

```

use tpcc
go

declare @startdate datetime
declare @enddate datetime

```

```

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

if exists ( select name from sysindexes where name = 'orders_c1' )
    drop index orders.orders_c1

create unique clustered index orders_c1 on orders(o_w_id, o_d_id, o_id)
on MSSQL_ord_fg

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

go

```

IDXORDNC.SQL

```

-----
-- File:  IDXORDNC.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Creates non-clustered index on orders table
-----

```

```

use tpcc
go

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

--if exists ( select name from sysindexes where name = 'orders_nc1' )
--    drop index orders.orders_nc1

--create index orders_nc1 on orders( o_w_id, o_d_id, o_c_id, o_id)
--    with pad_index, fillfactor=90,
--    SORT_IN_TEMPDB
--    on MSSQL_ord_fg

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

go

```

IDXSTKCL.SQL

```

-----
-- File:  IDXSTKCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
-----

```

```

--
--          Creates clustered index on stock table
--
-----
use tpcc
go

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

if exists ( select name from sysindexes where name = 'stock_c1' )
    drop index stock.stock_c1

create unique clustered index stock_c1 on stock(s_i_id, s_w_id)
on MSSQL_cs_fg

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

go

```

IDXWARCL.SQL

```

-----
--
-- File:  IDXWARCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
--          Creates clustered index on warehouse table
--
-----
use tpcc
go

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

if exists ( select name from sysindexes where name = 'warehouse_c1' )
    drop index warehouse.warehouse_c1

create unique clustered index warehouse_c1 on warehouse(w_id)
with fillfactor=100 on MSSQL_misc_fg

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

go

```

TABLES.SQL

```

-----
--
-- File:  TABLES.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
--          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_name        char(10),
    w_street_1    char(20),
    w_street_2    char(20),

```

```

w_city          char(20),
w_state         char(2),
w_zip          char(9),
w_tax          numeric(4,4),
w_ytd         numeric(12,2)
) on MSSQL_misc_fg
go

create table district
(
d_id           tinyint,
d_w_id        int,
d_name        char(10),
d_street_1    char(20),
d_street_2    char(20),
d_city        char(20),
d_state       char(2),
d_zip         char(9),
d_tax         numeric(4,4),
d_ytd         numeric(12,2),
d_next_o_id   int
) on MSSQL_misc_fg
go

create table customer
(
c_id          int,
c_d_id       tinyint,
c_w_id       int,
c_first      char(16),
c_middle     char(2),
c_last       char(16),
c_street_1   char(20),
c_street_2   char(20),
c_city       char(20),
c_state      char(2),
c_zip        char(9),
c_phone      char(16),
c_since      datetime,
c_credit     char(2),
c_credit_lim numeric(12,2),
c_discount   numeric(4,4),
c_balance    numeric(12,2),
c_ytd_payment numeric(12,2),
c_payment_cnt smallint,
c_delivery_cnt smallint,
c_data       text
) on MSSQL_cs_fg
textimage_on MSSQL_misc_fg
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     numeric(6,2),
h_data       char(24)
) on MSSQL_misc_fg
go

create table new_order
(
no_o_id      int,
no_d_id      tinyint,
no_w_id      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_entry_d    datetime,
o_carrier_id tinyint,
o_ol_cnt     tinyint,
o_all_local  tinyint
) 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_supply_w_id int,
ol_delivery_d datetime,
ol_quantity  smallint,
ol_amount    numeric(6,2),
ol_dist_info char(24)
) on MSSQL_ord_fg
go

create table item
(
i_id        int,
i_im_id     int,
i_name      char(24),
i_price     numeric(5,2),
i_data      char(50)
) on MSSQL_misc_fg
go

create table stock
(
s_i_id       int,
s_w_id       int,
s_quantity  smallint,
s_dist_01    char(24),
s_dist_02    char(24),
s_dist_03    char(24),
s_dist_04    char(24),
s_dist_05    char(24),
s_dist_06    char(24),
s_dist_07    char(24),

```

```

s_dist_08          char(24),
s_dist_09          char(24),
s_dist_10          char(24),
s_ytd              int,
s_order_cnt        smallint,
s_remote_cnt       smallint,
s_data             char(50)
) on MSSQL_cs_fg
go

```

Stored Procedures

DELIVERY.SQL

```

-----
--
-- File: DELIVERY.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Creates delivery stored procedure
--
-- Interface Level: 4.10.000
--
-----

use tpcc
go

if exists (select name from sysobjects where name = 'tpcc_delivery' )
    drop procedure tpcc_delivery
go

create proc tpcc_delivery @w_id int,
                        @o_carrier_id smallint
as

declare @d_id tinyint,
        @o_id int,
        @c_id int,
        @total numeric(12,2),
        @oid1 int,
        @oid2 int,
        @oid3 int,
        @oid4 int,
        @oid5 int,
        @oid6 int,
        @oid7 int,
        @oid8 int,
        @oid9 int,
        @oid10 int

select @d_id = 0

begin tran d
    while (@d_id < 10)

```

```

begin

select @d_id = @d_id + 1,
       @total = 0,
       @o_id = 0

select top 1
       @o_id = no_o_id
from   new_order WITH (serializable, uplock)
where  no_w_id = @w_id and
       no_d_id = @d_id
order  by no_o_id asc

if (@@rowcount <> 0)
begin
-----
-- claim the order for this district
-----
        delete new_order
        where  no_w_id = @w_id and
               no_d_id = @d_id and
               no_o_id = @o_id
-----
-- set carrier_id on this order (and get customer id)
-----
        update orders
        set    o_carrier_id = @o_carrier_id,
               @c_id       = o_c_id
        where  o_w_id       = @w_id and
               o_d_id       = @d_id and
               o_id         = @o_id
-----
-- set date in all lineitems for this order (and sum amounts)
-----
        update order_line
        set    ol_delivery_d = getdate(),
               @total        = @total + ol_amount
        where  ol_w_id       = @w_id and
               ol_d_id       = @d_id and
               ol_o_id       = @o_id
-----
-- accumulate lineitem amounts for this order into customer
-----
        update customer
        set    c_balance      = c_balance + @total,
               c_delivery_cnt = c_delivery_cnt + 1

        where  c_w_id       = @w_id and
               c_d_id       = @d_id and
               c_id         = @c_id

end

select @oid1 = case @d_id when 1 then @o_id else @oid1 end,
       @oid2 = case @d_id when 2 then @o_id else @oid2 end,
       @oid3 = case @d_id when 3 then @o_id else @oid3 end,
       @oid4 = case @d_id when 4 then @o_id else @oid4 end,

```

```

        @oid5 = case @d_id when 5 then @o_id else @oid5 end,
        @oid6 = case @d_id when 6 then @o_id else @oid6 end,
        @oid7 = case @d_id when 7 then @o_id else @oid7 end,
        @oid8 = case @d_id when 8 then @o_id else @oid8 end,
        @oid9 = case @d_id when 9 then @o_id else @oid9 end,
        @oid10 = case @d_id when 10 then @o_id else @oid10 end
    end
commit tran d
-----
-- return delivery data to client
-----
select @oid1,
       @oid2,
       @oid3,
       @oid4,
       @oid5,
       @oid6,
       @oid7,
       @oid8,
       @oid9,
       @oid10
go

```

NEWORD.SQL

```

-----
--                               --
-- File:  NEWORD.SQL              --
-- Microsoft TPC-C Benchmark Kit Ver. 4.51 --
-- Copyright Microsoft, 2003      --
--                               --
-- Creates neworder stored procedure --
--                               --
-- Interface Level: 4.10.000      --
--                               --
-----

use tpcc
go

if exists ( select name from sysobjects where name = 'tpcc_neworder' )
    drop procedure tpcc_neworder
go

create proc tpcc_neworder
    @w_id          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          numeric(4,4),
        @d_tax          numeric(4,4),
        @c_last         char(16),
        @c_credit       char(2),
        @c_discount     numeric(4,4),
        @i_price        numeric(5,2),
        @i_name         char(24),
        @i_data         char(50),
        @o_entry_d      datetime,
        @remote_flag    int,
        @s_quantity     smallint,
        @s_data         char(50),
        @s_dist         char(24),
        @li_no          int,
        @o_id           int,
        @commit_flag    tinyint,
        @li_id          int,
        @li_s_w_id      int,
        @li_qty         smallint,
        @ol_number      int,
        @c_id_local     int

begin

begin transaction n
-----
-- get district tax and next available order id and update
-- plus initialize local variables
-----
        update district
        set @d_tax = d_tax,
            @o_id = d_next_o_id,
            d_next_o_id = d_next_o_id + 1,

```

```

        @o_entry_d = getdate(),
        @li_no     = 0,
        @commit_flag = 1
where   d_w_id   = @w_id and
        d_id     = @d_id

-----
-- process orderlines
-----
while (@li_no < @o_ol_cnt)
begin
    select @li_no = @li_no + 1

-----
-- set i_id, s_w_id, and qty for this lineitem
-----
    select @li_id = case @li_no
        when 1 then @i_id1
        when 2 then @i_id2
        when 3 then @i_id3
        when 4 then @i_id4
        when 5 then @i_id5
        when 6 then @i_id6
        when 7 then @i_id7
        when 8 then @i_id8
        when 9 then @i_id9
        when 10 then @i_id10
        when 11 then @i_id11
        when 12 then @i_id12
        when 13 then @i_id13
        when 14 then @i_id14
        when 15 then @i_id15
    end,

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

    @li_qty = case @li_no
        when 1 then @ol_qty1
        when 2 then @ol_qty2
        when 3 then @ol_qty3
        when 4 then @ol_qty4
        when 5 then @ol_qty5
        when 6 then @ol_qty6
        when 7 then @ol_qty7
        when 8 then @ol_qty8

```

```

        when 9 then @ol_qty9
        when 10 then @ol_qty10
        when 11 then @ol_qty11
        when 12 then @ol_qty12
        when 13 then @ol_qty13
        when 14 then @ol_qty14
        when 15 then @ol_qty15
    end

-----
-- get item data (no one updates item)
-----
    select @i_price = i_price,
           @i_name = i_name,
           @i_data = i_data
    from   item WITH (tablock, repeatableread)
    where  i_id = @li_id

-----
-- update stock values
-----
    update stock
    set     s_ytd = s_ytd + @li_qty,
           @s_quantity = s_quantity -
@li_qty +
           case when (s_quantity -
@li_qty < 10) then 91 else 0 end,
           s_order_cnt = s_order_cnt + 1,
           s_remote_cnt = s_remote_cnt + case when
(@li_s_w_id = @w_id) then 0 else 1 end,
           @s_data = s_data,
           @s_dist = case @d_id
                when 1 then s_dist_01
                when 2 then s_dist_02
                when 3 then s_dist_03
                when 4 then s_dist_04
                when 5 then s_dist_05
                when 6 then s_dist_06
                when 7 then s_dist_07
                when 8 then s_dist_08
                when 9 then s_dist_09
                when 10 then s_dist_10
            end
    where  s_i_id = @li_id and
           s_w_id = @li_s_w_id

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

-----
-- insert order_line data (using data from item and stock)
-----
        insert into order_line values(
            @o_id,
            @d_id,
            @w_id,
            @li_no,
            @li_id,
            @li_s_w_id,

```

```

'dec 31, 1899',
@li_qty,
@i_price * @li_qty,
@s_dist)

-----
-- send line-item data to client
-----
        select @i_name,
               @s_quantity,
               b_g = case when (
(patindex('%ORIGINAL%',@i_data) > 0) and
(patindex('%ORIGINAL%',@s_data) > 0) )
               then 'B' else 'G' end,
               @i_price,
               @i_price * @li_qty
        end
        else
        begin

-----
-- no item (or stock) found - triggers rollback condition
-----
                select '',0, '',0,0
                select @commit_flag = 0

        end

end

-----
-- get customer last name, discount, and credit rating
-----
        select @c_last      = c_last,
               @c_discount = c_discount,
               @c_credit   = c_credit,
               @c_id_local = c_id
        from   customer 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,
                                   @o_entry_d,
                                   0,
                                   @o_ol_cnt,
                                   @o_all_local)

-----
-- insert corresponding row into new-order table
-----
        insert into new_order values ( @o_id, @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

ORDSTAT.SQL

-----
--
-- File: ORDSTAT.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Creates order status stored procedure
--
-- Interface Level: 4.10.000
--
-----

use tpcc
go

if exists ( select name from sysobjects where name = 'tpcc_orderstatus' )
    drop procedure tpcc_orderstatus
go

create proc tpcc_orderstatus @w_id int,
                           @d_id tinyint,

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

```

```

as
declare @c_balance    numeric(12,2),
        @c_first      char(16),
        @c_middle     char(2),
        @o_id         int,
        @o_entry_d    datetime,
        @o_carrier_id smallint,
        @cnt          smallint

begin tran o

if (@c_id = 0)
begin
-----
-- get customer id and info using last name
-----
        select @cnt = (count(*)+1)/2
        from   customer 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 top 1 @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 desc
-----
-- 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 tran o
-----
-- return data to client
-----
select @c_id,
       @c_last,
       @c_first,
       @c_middle,
       @o_entry_d,
       @o_carrier_id,
       @c_balance,
       @o_id
go

```

PAYMENT.SQL

```

-----
-- File: PAYMENT.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Creates payment stored procedure
--

```

```

--          Interface Level:      4.10.000      --
--
-----
use tpcc
go

if exists (select name from sysobjects where name = 'tpcc_payment' )
    drop procedure tpcc_payment
go

create proc tpcc_payment          @w_id          int,
                                @c_w_id          int,
                                @h_amount        numeric(6,2),
                                @d_id           tinyint,
                                @c_d_id         tinyint,
                                @c_id           int,
                                @c_last         char(16) = ''

as
declare @w_street_1             char(20),
        @w_street_2             char(20),
        @w_city                 char(20),
        @w_state                char(2),
        @w_zip                  char(9),
        @w_name                 char(10),
        @d_street_1             char(20),
        @d_street_2             char(20),
        @d_city                 char(20),
        @d_state                char(2),
        @d_zip                  char(9),
        @d_name                 char(10),
        @c_first                char(16),
        @c_middle               char(2),
        @c_street_1             char(20),
        @c_street_2             char(20),
        @c_city                 char(20),
        @c_state                char(2),
        @c_zip                  char(9),
        @c_phone                char(16),
        @c_since                datetime,
        @c_credit               char(2),
        @c_credit_lim           numeric(12,2),
        @c_balance              numeric(12,2),
        @c_discount             numeric(4,4),
-- @data                        char(500),
-- @c_data                      char(500),
@c_data                        char(42),
@datetime                      datetime,
@w_ytd                         numeric(12,2),
@d_ytd                         numeric(12,2),
@cnt                           smallint,
@val                           smallint,
@screen_data                   char(200),
@d_id_local                    tinyint,
@w_id_local                    int,
@c_id_local                    int

select @screen_data = ''

```

```

begin tran p
-----
-- get payment date
-----
        select @datetime = getdate()

        if (@c_id = 0)
            begin
-----
-- get customer id and info using last name
-----
                select @cnt = count(*)
                    from customer 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,
-- @data = c_data,
-- @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
      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

--
      select @screen_data = substring (@c_data,1,200)
--
      end
-----
-- get district data and update year-to-date
-----
      update district
      set   d_ytd           = d_ytd + @h_amount,
           @d_street_1     = d_street_1,
           @d_street_2     = d_street_2,
           @d_city         = d_city,
           @d_state        = d_state,
           @d_zip          = d_zip,
           @d_name         = d_name,
           @d_id_local     = d_id
      where d_w_id         = @w_id and
           d_id           = @d_id
-----
-- get warehouse data and update year-to-date
-----
      update warehouse
      set   w_ytd           = w_ytd + @h_amount,
           @w_street_1     = w_street_1,
           @w_street_2     = w_street_2,
           @w_city         = w_city,
           @w_state        = w_state,
           @w_zip          = w_zip,
           @w_name         = w_name,
           @w_id_local     = w_id
      where w_id           = @w_id
-----
-- create history record

```

```

-----
      insert into history values ( @c_id_local,
                                  @c_d_id,
                                  @c_w_id,
                                  @d_id_local,
                                  @w_id_local,
                                  @datetime,
                                  @h_amount,
                                  @w_name + ' ' + @d_name)
--
commit tran p
-----
-- return data to client
-----
select @c_id,
       @c_last,
       @datetime,
       @w_street_1,
       @w_street_2,
       @w_city,
       @w_state,
       @w_zip,
       @d_street_1,
       @d_street_2,
       @d_city,
       @d_state,
       @d_zip,
       @c_first,
       @c_middle,
       @c_street_1,
       @c_street_2,
       @c_city,
       @c_state,
       @c_zip,
       @c_phone,
       @c_since,
       @c_credit,
       @c_credit_lim,
       @c_discount,
       @c_balance,
       @screen_data
go
-----
STOCKLEV.SQL
-----
--
-- File: STOCKLEV.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.51
-- Copyright Microsoft, 2003
--
-- Creates stock level stored procedure
--
-- Interface Level: 4.10.000
--
-----
use tpcc
go

```

```

if exists (select name from sysobjects where name = 'tpcc_stocklevel' )
    drop procedure tpcc_stocklevel
go

create proc tpcc_stocklevel    @w_id        int,
                              @d_id        tinyint,
                              @threshold   smallint
as

declare @o_id_low int,
        @o_id_high int

select  @o_id_low    = (d_next_o_id - 20),
        @o_id_high  = (d_next_o_id - 1)
from    district
where   d_w_id      = @w_id and
        d_id        = @d_id

select  count(distinct(s_i_id))
from    stock, order_line
where   ol_w_id     = @w_id and
        ol_d_id     = @d_id and
        ol_o_id     between @o_id_low and
                          @o_id_high and
        s_w_id     = ol_w_id and
        s_i_id     = ol_i_id and
        s_quantity <  @threshold

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

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

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

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

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

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

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

```

```

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

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

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

return;
}

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

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

    printf("TPCCCLDR:\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) DEFLLDPACKSIZE);
    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. 4.51
//               Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2003
// Purpose:      Random number generation routines for database
loader

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

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

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

/*****
*
*
*/

```

```

* random -
*
* Implements a GOOD pseudo random number generator. This generator
*
* will/should? run the complete period before repeating.
*
*
* Copied from:
*
* Random Numbers Generators: Good Ones Are Hard to Find.
*
* Communications of the ACM - October 1988 Volume 31 Number 10
*
*
* Machine Dependencies:
*
* long must be 2 ^ 31 - 1 or greater.
*
*
*****
****/
/*****
****
* seed - load the Seed value used in irand and drand. Should be used
before *
* first call to irand or drand.
*
*****
****/
void seed(long val)
{
#ifdef DEBUG
    printf("[%ld]DBG: Entering seed()...\n", (int) GetCurrentThreadId());
    printf("Old Seed %ld New Seed %ld\n",Seed, val);
#endif

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

    Seed = val;
}

/*****
*
*
* irand - returns a 32 bit integer pseudo random number with a period of
*
* 1 to 2 ^ 32 - 1.
*
*
*
*/

```

```

* parameters:
*
*     none.
*
*
* returns:
*
*     32 bit integer - defined as long ( see above ).
*
*
* side effects:
*
*     seed get recomputed.
*
*****
***/

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

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

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

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

    return( Seed );
}

/*****
*
* drand - returns a double pseudo random number between 0.0 and 1.0.
*
*     See irand.
*
*****
***/

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

```

```

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

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

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

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

    upper++;

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

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

    return rand_num;
}

#if 0
//Original code pgd 08/13/96
long RandomNumber(long lower,
long upper)
{
    long rand_num;

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

    upper++;

    if ((upper <= lower))
        rand_num = upper;
    else

```

```

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

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

    return rand_num;
}
#endif

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

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

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

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

    return rand_num;
}

```

STRINGS.C

```

// File: STRINGS.C
// Microsoft TPC-C Kit Ver. 4.51
// Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2003
// Purpose: Source file for database loader string functions

// blank padded strings in MakeAlphaString (strings.c)

// 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 <%d> out of range
(0,999)\n", num);
        exit(-1);
    }

#ifdef DEBUG
    printf("[%d]DBG: LastName: num = [%d] ==> [%d][%d][%d]\n",
(int) GetCurrentThreadId(), num, num/100,
(num/10)%10, num%10);
    printf("[%d]DBG: LastName: String = %s\n", (int)
GetCurrentThreadId(), name);
#endif

    return;
}

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

int MakeAlphaString( int x, int y, int z, char *str)
{
    int len;
    int i;
    char cc = 'a';
    static char chArray[] =
"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
    static int chArrayMax = 61;

#ifdef DEBUG

```

```

        printf("[%d]DBG: Entering MakeAlphaString()\n", (int)
GetCurrentThreadId());
#endif

        len= RandomNumber(x, y);

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

        return len;
}

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

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

    // verify percentage 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 + y) <= 8)
    {
        printf("MakeOriginalAlphaString: string length must be >=
8\n");
        exit(-1);
    }

    // Make Alpha String
    len = MakeAlphaString(x,y, z, str);

    val = RandomNumber(1,100);

```

```

    if (val <= percent)
    {
        start = RandomNumber(0, len - 8);
        strncpy(str + start, "ORIGINAL", 8);
    }

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

    return strlen(str);
}

//=====
//
// Function name: MakeNumberString
//
//=====
int MakeNumberString(int x, int y, int z, char *str)
{
    char tmp[16];

    //MakeNumberString is always called MakeZipNumberString(16, 16,
    16, string)

    memset(str, '0', 16);
    itoa(RandomNumber(0, 99999999), tmp, 10);
    memcpy(str, tmp, strlen(tmp));

    itoa(RandomNumber(0, 99999999), tmp, 10);
    memcpy(str+8, tmp, strlen(tmp));

    str[16] = 0;

    return 16;
}

//=====
//
// Function name: MakeZipNumberString
//
//=====
int MakeZipNumberString(int x, int y, int z, char *str)
{
    char tmp[16];

    //MakeZipNumberString is always called MakeZipNumberString(9, 9,
    9, string)

    strcpy(str, "000011111");

    itoa(RandomNumber(0, 9999), tmp, 10);
    memcpy(str, tmp, strlen(tmp));

    return 9;
}

```

```

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

    memset(str, ' ', len);
    str[len] = 0;
}

//=====
// Function name: InitAddress
//
// Description:
//
//=====
void InitAddress(char *street_1, char *street_2, char *city, char *state,
char *zip)
{
    memset(street_1, ' ', ADDRESS_LEN+1);
    memset(street_2, ' ', ADDRESS_LEN+1);
    memset(city, ' ', ADDRESS_LEN+1);

    street_1[ADDRESS_LEN+1] = 0;
    street_2[ADDRESS_LEN+1] = 0;
    city[ADDRESS_LEN+1] = 0;

    memset(state, ' ', STATE_LEN+1);
    state[STATE_LEN+1] = 0;

    memset(zip, ' ', ZIP_LEN+1);
    zip[ZIP_LEN+1] = 0;
}

//=====
//
// Function name: PaddString
//
//=====
void PaddString(int max, char *name)
{
    int len;

    len = strlen(name);
    if ( len < max )
        memset(name+len, ' ', max - len);
    name[max] = 0;

    return;
}

```

TIME.C

```
// File: TIME.C
// Microsoft TPC-C Kit Ver. 4.51
// Copyright Microsoft, 1996, 1997, 1998, 1999,
2000, 2001, 2002, 2003
// 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
// Purpose: Header file for TPC-C database loader
```

```
// Build number of TPC Benchmark Kit
#define TPCKIT_VER "4.51"
```

```
// General headers
#include <windows.h>
#include <winbase.h>
#include <stdlib.h>
#include <stdio.h>
#include <process.h>
```

```
#include <stddef.h>
#include <stdarg.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <sys\types.h>
#include <math.h>
```

```
// ODBC headers
#include <sql.h>
#include <sqlext.h>
#include <odbcss.h>
```

```
// General constants
#define MILLI 1000
#define FALSE 0
#define TRUE 1
#define UNDEF -1
#define MINPRINTASCII 32
#define MAXPRINTASCII 126
```

```
// Default environment constants
#define SERVER ""
#define DATABASE "tpcc"
#define USER "sa"
#define PASSWORD ""
```

```
// Default loader arguments
#define BATCH 10000
#define DEFLDPACKSIZE 32768
#define LOADER_RES_FILE "C:\\MSTPCC.450\\SETUP\\LOGS\\load.out"
#define LOADER_LOG_PATH "C:\\MSTPCC.450\\SETUP\\LOGS\\"
#define LOADER_NURAND_C 123
#define DEF_STARTING_WAREHOUSE 1
#define BUILD_INDEX 1 // build both
data and indexes
#define INDEX_ORDER 1 // build
indexes before load
#define SCALE_DOWN 0 // build a normal
scale database
#define INDEX_SCRIPT_PATH "scripts"
```

```
typedef struct
{
    char *server;
    char *database;
    char *user;
    char *password;
    BOOL tables_all; // set
    if loading all tables
    BOOL table_item; // set
    if loading ITEM table specifically
    BOOL table_warehouse; // set if
loading WAREHOUSE, DISTRICT, and STOCK
    BOOL table_customer; // set
    if loading CUSTOMER and HISTORY
    BOOL table_orders; // set if
loading NEW-ORDER, ORDERS, ORDER-LINE
    long num_warehouses;
```

```

long      batch;
long      verbose;
long      pack_size;
char      *loader_res_file;
char      *log_path;
char      *synch_servername;
long      case_sensitivity;
long      starting_warehouse;
long      build_index;
long      index_order;
long      scale_down;
char      *index_script_path;
} TPCCLDR_ARGS;

```

```

// String length constants
#define SERVER_NAME_LEN      20
#define DATABASE_NAME_LEN   20
#define USER_NAME_LEN       20
#define PASSWORD_LEN        20
#define TABLE_NAME_LEN     20
#define I_DATA_LEN          50
#define I_NAME_LEN           24
#define BRAND_LEN            1
#define LAST_NAME_LEN        16
#define W_NAME_LEN           10
#define ADDRESS_LEN          20
#define STATE_LEN            2
#define ZIP_LEN               9
#define S_DIST_LEN           24
#define S_DATA_LEN           50
#define D_NAME_LEN           10
#define FIRST_NAME_LEN       16
#define MIDDLE_NAME_LEN      2
#define PHONE_LEN            16
#define CREDIT_LEN           2
#define C_DATA_LEN           500
#define H_DATA_LEN           24
#define DIST_INFO_LEN        24
#define MAX_OL_NEW_ORDER_ITEMS 15
#define MAX_OL_ORDER_STATUS_ITEMS 15
#define STATUS_LEN           25
#define OL_DIST_INFO_LEN     24
#define C_SINCE_LEN          23
#define H_DATE_LEN           23
#define OL_DELIVERY_D_LEN    23
#define O_ENTRY_D_LEN        23

```

```

// Functions in random.c
void seed();
long irand();
double drand();
void WUCreate();
short WURand();
long RandomNumber(long lower, long upper);

```

```

// Functions in getargs.c;
void GetArgsLoader();
void GetArgsLoaderUsage();

```

```

// Functions in time.c

```

```

long      TimeNow();

// Functions in strings.c
void      MakeAddress();
void      LastName();
int       MakeAlphaString();
int       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
//=====

// added mutex around buildindex code to force index build to single
// thread.
// added 1 minute delay before starting stock and customer bulk loads
// added bcp hint for stock
// blank padded strings in MakeAlphaString (strings.c)

// 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;

TPCC_LDR_ARGS    *aptr, args;
HANDLE            hIndexMutex;

```

```

//=====
//
// 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);

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

    main_time_start = (TimeNow() / MILLI);
    hIndexMutex = CreateMutex (NULL, FALSE, NULL);

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

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

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

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

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

```

```

&dwThreadID[1]);
    if (hThread[1] == NULL)
    {
        printf("Error, failed in creating creating thread =
1.\n");
        exit(-1);
    }
    if (aptr->tables_all || aptr->table_customer)
    {
        fprintf(fLoader, "Starting loader threads for:
customer\n");
        hThread[2] = CreateThread(NULL,
                                0,
                                (LPTHREAD_START_ROUTINE) LoadCustomer,
                                NULL,
                                0,
                                &dwThreadID[2]);
        if (hThread[2] == NULL)
        {
            printf("Error, failed in creating creating main
thread = 2.\n");
            exit(-1);
        }
        if (aptr->tables_all || aptr->table_orders)
        {
            fprintf(fLoader, "Starting loader threads for: orders\n");
            hThread[3] = CreateThread(NULL,
                                    0,
                                    (LPTHREAD_START_ROUTINE) LoadOrders,
                                    NULL,
                                    0,
                                    &dwThreadID[3]);
            if (hThread[3] == NULL)
            {
                printf("Error, failed in creating creating main
thread = 3.\n");
                exit(-1);
            }
        }
        // Wait for threads to finish...
        for (i=0; i<MAX_MAIN_THREADS; i++)
        {
            if (hThread[i] != NULL)
            {
                WaitForSingleObject( hThread[i], INFINITE );
                CloseHandle(hThread[i]);
            }
        }
    }
}

```

```

        hThread[i] = NULL;
    }
    main_time_end = (TimeNow() / MILLI);
    sprintf(buffer, "\nTPC-C load completed successfully in %ld
minutes.\n",
            (main_time_end - main_time_start)/60);
    printf("%s",buffer);
    fprintf(fLoader, "%s", buffer);
    fclose(fLoader);
    SQLFreeEnv(henv);
    exit(0);
    return 0;
}
//=====
//
// Function name: LoadItem
//
//=====
void LoadItem()
{
    long        i_id;
    long        i_im_id;
    char        i_name[I_NAME_LEN+1];
    double      i_price;
    char        i_data[I_DATA_LEN+1];
    char        name[20];
    long        time_start;
    RETCODE     rc;
    DBINT       rcint;
    char        bcphint[128];
    char        err_log_path[256];

    // Seed with unique number
    seed(1);

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

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

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

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

    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);
    }

    rc = bcp_bind(i_hdbc1, (BYTE *) &i_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 1);
    if (rc != SUCCEED)
        HandleErrorDBC(i_hdbc1);
    rc = bcp_bind(i_hdbc1, (BYTE *) &i_im_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT4, 2);
    if (rc != SUCCEED)
        HandleErrorDBC(i_hdbc1);
    rc = bcp_bind(i_hdbc1, (BYTE *) i_name, 0, I_NAME_LEN, NULL, 0, 0,
3);
    if (rc != SUCCEED)
        HandleErrorDBC(i_hdbc1);
    rc = bcp_bind(i_hdbc1, (BYTE *) &i_price, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, 4);
    if (rc != SUCCEED)
        HandleErrorDBC(i_hdbc1);
    rc = bcp_bind(i_hdbc1, (BYTE *) i_data, 0, I_DATA_LEN, NULL, 0, 0,
5);
    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);

        MakeAlphaString(14, 24, I_NAME_LEN, i_name);

        i_price = ((float) RandomNumber(100L, 10000L))/100.0;

        MakeOriginalAlphaString(26, 50, I_DATA_LEN, i_data, 10);

        rc = bcp_sendrow(i_hdbc1);
        if (rc != 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()
{
    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);
    }

    rc = bcp_bind(w_hdbc1, (BYTE *) &w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 1);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_name, 0, W_NAME_LEN, NULL, 0, 0,
2);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_street_1, 0, ADDRESS_LEN, NULL,
0, 0, 3);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_street_2, 0, ADDRESS_LEN, NULL,
0, 0, 4);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_city, 0, ADDRESS_LEN, NULL, 0,
0, 5);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_state, 0, STATE_LEN, NULL, 0, 0,
6);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_zip, 0, ZIP_LEN, NULL, 0, 0, 7);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &w_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 8);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &w_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 9);
    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++)
    {
        MakeAlphaString(6,10, W_NAME_LEN, w_name);

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

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

        w_ytd = 300000.00;

        rc = bcp_sendrow(w_hdbc1);
        if (rc != 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()
{
    short    d_id;
    long     d_w_id;
    char     d_name[D_NAME_LEN+1];
    char     d_street_1[ADDRESS_LEN+1];
    char     d_street_2[ADDRESS_LEN+1];
    char     d_city[ADDRESS_LEN+1];
    char     d_state[STATE_LEN+1];
    char     d_zip[ZIP_LEN+1];
    double   d_tax;
    double   d_ytd;
    char     name[20];
    long     d_next_o_id;
    long     time_start;
    long     w_id;
    RETCODE  rc;
    DBINT    rcint;
    char     bcphint[128];
    char     err_log_path[256];

    // Seed with unique number
    seed(4);

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

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

    InitString(d_name, D_NAME_LEN+1);
    InitAddress(d_street_1, d_street_2, d_city, d_state, d_zip);

```

```

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

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

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

rc = bcp_bind(w_hdbc1, (BYTE *) &d_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, 1);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &d_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 2);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_name, 0, D_NAME_LEN, NULL, 0, 0,
3);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_street_1, 0, ADDRESS_LEN, NULL,
0, 0, 4);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_street_2, 0, ADDRESS_LEN, NULL,
0, 0, 5);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_city, 0, ADDRESS_LEN, NULL, 0,
0, 6);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_state, 0, STATE_LEN, NULL, 0, 0,
7);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) d_zip, 0, ZIP_LEN, NULL, 0, 0, 8);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &d_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 9);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &d_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 10);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &d_next_o_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT4, 11);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

```

```

d_ytd = 30000.0;

d_next_o_id = orders_per_district+1;

time_start = (TimeNow() / MILLI);

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

    for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
    {
        MakeAlphaString(6,10,D_NAME_LEN, d_name);

        MakeAddress(d_street_1, d_street_2, d_city,
d_state, d_zip);

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

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

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

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

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

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

return;
}

//=====
//
// Function : Stock
//
//=====
void Stock()
{
    long s_i_id;
    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      bcp hint[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");
printf("Waiting 1 minute before stock load starts...\n");
Sleep(60000);

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 != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

if ((aptr->build_index == 1) && (aptr->index_order == 1))
{
    sprintf(bcp hint, "tablock, order (s_i_id, s_w_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 10000));
    rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcp hint);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);
}

rc = bcp_bind(w_hdbc1, (BYTE *) &s_i_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 1);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &s_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 2);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &s_quantity, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 3);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_01, 0, S_DIST_LEN, NULL, 0,
0, 4);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_02, 0, S_DIST_LEN, NULL, 0,
0, 5);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

```

```

rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_03, 0, S_DIST_LEN, NULL, 0,
0, 6);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_04, 0, S_DIST_LEN, NULL, 0,
0, 7);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_05, 0, S_DIST_LEN, NULL, 0,
0, 8);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_06, 0, S_DIST_LEN, NULL, 0,
0, 9);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_07, 0, S_DIST_LEN, NULL, 0,
0, 10);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_08, 0, S_DIST_LEN, NULL, 0,
0, 11);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_09, 0, S_DIST_LEN, NULL, 0,
0, 12);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_10, 0, S_DIST_LEN, NULL, 0,
0, 13);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &s_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 14);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &s_order_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 15);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) &s_remote_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 16);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);
rc = bcp_bind(w_hdbc1, (BYTE *) s_data, 0, S_DATA_LEN, NULL, 0, 0,
17);
if (rc != SUCCEEDED)
    HandleErrorDBC(w_hdbc1);

s_ytd = s_order_cnt = s_remote_cnt = 0;

time_start = (TimeNow() / MILLI);

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

for (s_i_id=1; s_i_id <= max_items; s_i_id++)
{
    for (s_w_id = (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
printf("Waiting 1 minute before customer load starts...\n");
Sleep(60000);
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);

        MakeAlphaString(8,16,FIRST_NAME_LEN, c[i].c_first);

        c[i].c_id = i+1;
    }

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

    for (i=0;i<customers_per_district;i++)
    {
        customer_buf[i].c_d_id = d_id;
        customer_buf[i].c_w_id = w_id;
        customer_buf[i].h_amount = 10.0;
        customer_buf[i].c_ytd_payment = 10.0;
        customer_buf[i].c_payment_cnt = 1;
        customer_buf[i].c_delivery_cnt = 0;
        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");
        MakeAlphaString(300, 500, C_DATA_LEN,
customer_buf[i].c_data);

        // Generate HISTORY data
        MakeAlphaString(12, 24, H_DATA_LEN,
customer_buf[i].h_data);
    }

//=====
//
// Function   : LoadCustomerTable
//
//=====
void LoadCustomerTable(LOADER_TIME_STRUCT *customer_time_start)
{
    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;

rc = bcp_bind(c_hdbc1, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 3);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_first, 0, FIRST_NAME_LEN, NULL, 0,
0, 4);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0, MIDDLE_NAME_LEN, NULL, 0,
0, 5);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_last, 0, LAST_NAME_LEN, NULL, 0, 0,
6);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0, ADDRESS_LEN, NULL, 0,
0, 7);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0, ADDRESS_LEN, NULL, 0, 0,
8);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_city, 0, ADDRESS_LEN, NULL, 0, 0,
9);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_state, 0, STATE_LEN, NULL, 0, 0,
10);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_zip, 0, ZIP_LEN, NULL, 0, 0, 11);

```

```

if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_phone, 0, PHONE_LEN, NULL, 0, 0,
12);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_since, 0, C_SINCE_LEN, NULL, 0,
SQLCHARACTER, 13);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_credit, 0, CREDIT_LEN, NULL, 0, 0,
14);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_credit_lim, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, 15);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_discount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 16);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_balance, 0, 5, NULL, 0,
SQLCHARACTER, 17);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_ytd_payment, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, 18);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_payment_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 19);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_delivery_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 20);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_data, 0, 500, NULL, 0, 0, 21);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);

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

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

    FormatDate(&c_since);
}

```

```

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

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

customer_rows_loaded++;
CheckForCommit(c_hdbc1, c_hstmt1, customer_rows_loaded,
"customer", &customer_time_start->time_start);
}
}

//=====
//
// Function : LoadHistoryTable
//
//=====
void LoadHistoryTable(LOADER_TIME_STRUCT *history_time_start)
{
    long i;
    long c_id;
    short c_d_id;
    long c_w_id;
    double h_amount;
    char h_data[H_DATA_LEN+1];
    char h_date[H_DATE_LEN+1];
    RETCODE rc;

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &h_date, 0, H_DATE_LEN, NULL, 0,
SQLCHARACTER, 6);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);
    rc = bcp_bind(c_hdbc2, (BYTE *) &h_amount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 7);

```

```

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

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

    FormatDate(&h_date);

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

    history_rows_loaded++;
    CheckForCommit(c_hdbc2, c_hstmt2, history_rows_loaded,
"history", &history_time_start->time_start);
}
}

//=====
//
// Function : LoadOrders
//
//=====
void LoadOrders()
{
    LOADER_TIME_STRUCT orders_time_start;
    LOADER_TIME_STRUCT new_order_time_start;
    LOADER_TIME_STRUCT order_line_time_start;
    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("idxordc1");
        BuildIndex("idxnodc1");
        BuildIndex("idxodlc1");
    }

```

```

}

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

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

if ((aptr->build_index == 1) && (aptr->index_order == 1))
{
    sprintf(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 != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
}

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

rc = bcp_init(o_hdbc2, name, NULL, "logs\\neword.err", DB_IN);
strcpy(err_log_path_nord, aptr->log_path);
strcat(err_log_path_nord, "neword.err");
rc = bcp_init(o_hdbc2, name, NULL, err_log_path_nord, DB_IN);
if (rc != SUCCEEDED)
    HandleErrorDBC(o_hdbc2);

if ((aptr->build_index == 1) && (aptr->index_order == 1))
{
    sprintf(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 != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);
}

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

rc = bcp_init(o_hdbc3, name, NULL, "logs\\ordline.err", DB_IN);
strcpy(err_log_path_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 != SUCCEEDED)
    HandleErrorDBC(o_hdbc3);

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

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

```

```

OrdersBufInit();

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

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

    return;
}

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

    for (i=0;i<orders_per_district;i++)
    {

```

```

orders_buf[i].o_id = 0;
orders_buf[i].o_d_id = 0;
orders_buf[i].o_w_id = 0;
orders_buf[i].o_c_id = 0;
orders_buf[i].o_carrier_id = 0;
orders_buf[i].o_ol_cnt = 0;
orders_buf[i].o_all_local = 0;

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

//=====
//
// Function   : OrdersBufLoad
//
// Fills shared buffer for ORDERS, NEWORDER, and ORDERLINE
//
//=====
void OrdersBufLoad(short d_id, long w_id)
{
    int    cust[ORDERS_PER_DISTRICT+1];
    long   o_id;
    long   ol;

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

    GetPermutation(cust, orders_per_district);

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

        if (o_id < first_new_order)
        {
            orders_buf[o_id].o_carrier_id =
(short)RandomNumber(1L, 10L);
            orders_buf[o_id].o_all_local = 1;
        }
        else
        {
            orders_buf[o_id].o_carrier_id = 0;
            orders_buf[o_id].o_all_local = 1;
        }
    }

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

```

```

    {
        orders_buf[o_id].o_ol[ol].ol = ol+1;
        orders_buf[o_id].o_ol[ol].ol_i_id =
RandomNumber(1L, max_items);
        orders_buf[o_id].o_ol[ol].ol_supply_w_id = w_id;
        orders_buf[o_id].o_ol[ol].ol_quantity = 5;
        MakeAlphaString(24, 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
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);

```

```

    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_entry_d, 0, O_ENTRY_D_LEN,
NULL, 0, SQLCHARACTER, 5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_carrier_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 6);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_ol_cnt, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, 7);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_all_local, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 8);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);

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

        FormatDate(&o_entry_d);

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

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

    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
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc2);

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

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

        new_order_rows_loaded++;
        CheckForCommit_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
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_i_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_supply_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, 6);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_delivery_d, 0,
OL_DELIVERY_D_LEN, NULL, 0, SQLCHARACTER, 7);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_quantity, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 8);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
}

```

```

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_amount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 9);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) ol_dist_info, 0, DIST_INFO_LEN, NULL,
0, 0, 10);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc3);

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

        for (j=0; j < orders_buf[i].o_ol_cnt; j++)
        {
            ol            = orders_buf[i].o_ol[j].ol;
            ol_i_id       = orders_buf[i].o_ol[j].ol_i_id;
            ol_supply_w_id =
orders_buf[i].o_ol[j].ol_supply_w_id;
            ol_quantity   = orders_buf[i].o_ol[j].ol_quantity;
            ol_amount     = orders_buf[i].o_ol[j].ol_amount;

            strcpy(ol_delivery_d,orders_buf[i].o_ol[j].ol_delivery_d);

            strcpy(ol_dist_info,orders_buf[i].o_ol[j].ol_dist_info);

            rc = bcp_sendrow(o_hdbc3);
            if (rc != SUCCEEDED)
                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
(%0.2f 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];
    WaitForSingleObject( hIndexMutex, INFINITE );
    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);
    Sleep(5000);
    ReleaseMutex( hIndexMutex);
}

//=====
//
// 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

Microsoft SQL Server Startup Parameters

```
sqlservr -c -x -g300 -T3502 -T3428 -T888 -T825
```

Where:

- -c Start SQL Server independently of the Service Control Manager.
- -x Disables the keeping of CPU time and cache hit ratio statistics.
- -g300 Specifies the amount of virtual address space, in MB, SQL Server will leave available for memory allocations, excluding the buffer pool and thread stacks, such as dynamically-loaded DLLs, extended procedure calls, etc. If this option is not specified, SQL Server will use a value that is suitable for a wide range of runtime environments. Use of this option may be appropriate in 2GB (3GB Enterprise Edition) configurations in which the memory usage requirements of SQL Server are atypical and the virtual address space of the SQL Server process is totally in use. Incorrect use of this option can lead to conditions under which SQL Server may not start or may encounter runtime errors.
- -T3502 Writes a message to the SQL Server Errorlog showing the beginning and ending time of each checkpoint.
- -T3428 Use half of the memory available on the system during the recovery process to keep a hash table that enables recovery to proceed smoothly.
- -T888 Use locked pages for buffers.
- -T825 Enable NUMA support.

Microsoft SQL Server Configuration Parameters

```
1> 2> 3> 4> 5> 6> 7> 8> 9> 10> 11> 12> -----  
--  
--  
-- File: VERSION.SQL  
--
```

```
-- Microsoft TPC-C Benchmark Kit Ver. 4.51  
--  
-- Copyright Microsoft, 2003  
--  
-- - 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'))  
-----  
8.00.883 SP3 Enterprise Edition (64-bit)  
  
(1 row affected)  
1> 2> 3>  
SELECT CONVERT(char(30), getdate(), 21)  
  
-----  
2003-12-02 17:24:24.050  
  
(1 row affected)  
1> 2> 3> 4> 5>  
  
1> 2> 3> 4> 5> 6> 7> 8> 9> 10> 11> 12> 13> 14>  
-----  
--  
-- File: CONFIG.SQL  
--  
-- Microsoft TPC-C Benchmark Kit Ver. 4.51  
--  
-- Copyright Microsoft, 2003  
--  
-- - Collects SQL Server configuration parameters  
--  
-----
```

```

PRINT ' '
SELECT convert(char(30), getdate(), 21)
PRINT ' '

```

```

-----
2003-12-02 17:24:24.340

```

(1 row affected)

1> 2> 3> DBCC execution completed. If DBCC printed error messages, contact your system administrator.

```

sp_configure 'show advanced',1
Configuration option 'show advanced options' changed from 1 to 1. Run the
RECONFIGURE statement to install.

```

```

1> 2> 3>
reconfigure with override
1> 2> 3>
sp_configure
 name                minimum      maximum      config_value
run_value
-----
affinity mask        -2147483648 2147483647    65535
65535
affinity64 mask      -2147483648 2147483647     0
0
allow updates                0          1          0
0
awe enabled                 0          1          0
0
c2 audit mode                0          1          0
0
cost threshold for parallelism 0          32767        5
5
Cross DB Ownership Chaining 0          1          0
0
cursor threshold          -1 2147483647   -1
-1
default full-text language 0 2147483647   1033
1033
default language          0          9999         0
0
fill factor (%)            0          100          0
0
index create memory (KB)    704 2147483647   0
0
lightweight pooling        0          1          1
1
locks                      5000 2147483647   0
0
max degree of parallelism   0          32          1
1
max server memory (MB)     4 2147483647   126000
126000
max text repl size (B)     0 2147483647   65536
65536
max worker threads         32          32767        608
608

```

```

media retention          0          365          0
0
min memory per query (KB) 512 2147483647 1024
1024
min server memory (MB)   0 2147483647   0
0
nested triggers          0          1          1
1
network packet size (B) 512          65536    4096
4096
open objects              0 2147483647   0
0
priority boost           0          1          1
1
query governor cost limit 0 2147483647   0
0
query wait (s)           -1 2147483647  -1
-1
recovery interval (min)  0          32767        119
119
remote access            0          1          1
1
remote login timeout (s)  0 2147483647   20
20
remote proc trans         0          1          0
0
remote query timeout (s)  0 2147483647   600
600
scan for startup procs   0          1          0
0
set working set size     0          1          0
0
show advanced options     0          1          1
1
two digit year cutoff     1753        9999        2049
2049
user connections          0          32767        0
0
user options              0          32767        0
0

```

1>

Storage Configuration Information

Log DPE-Cache Configuration

```

SP Read Cache State      Disabled
SP Write Cache State     Enabled
Cache Page size:        8
Write Cache Mirrored:    YES
Low Watermark:           15
High Watermark:          85
SPA Cache pages:         25349

```

```

SPB Cache pages: 0
Unassigned Cache Pages: 0
Read Hit Ratio: N/A
Write Hit Ratio: 0
Prct Dirty Cache Pages = 0
Prct Cache Pages Owned = 0
SPA Read Cache State Disabled
SPB Read Cache State Disabled
SPA Write Cache State Enabled
SPB Write Cache State Enabled
System Buffer (spA): 275 MB
System Buffer (spB): 275 MB
SPS Test Day: Saturday
SPS Test Time: 18:00
SPA Physical Memory Size = 512
SPB Physical Memory Size = 512
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 = 237
SPB Write Cache Size = 237
SPA Optimized Raid 3 Memory Size = 0
SPB Optimized Raid 3 Memory Size = 0

```

Log DPE LUN Configurations

```

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: 256
Current owner: SP A
Offset: 0
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: ENABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: ASAP
Verify Priority: ASAP
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity (Megabytes): 432894
LUN Capacity (Blocks): 886566912
UID:
60:06:01:F3:95:0C:00:00:C0:27:87:C0:D1:66:D7:11
Bus 0 Enclosure 0 Disk 0 Queue Length: 0
Bus 0 Enclosure 0 Disk 2 Queue Length: 0
Bus 0 Enclosure 0 Disk 4 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 10 Queue Length: 0
Bus 0 Enclosure 0 Disk 12 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 5 Queue Length: 0
Bus 0 Enclosure 0 Disk 7 Queue Length: 0
Bus 0 Enclosure 0 Disk 9 Queue Length: 0
Bus 0 Enclosure 0 Disk 11 Queue Length: 0
Bus 0 Enclosure 0 Disk 13 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 4 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 10 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 12 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 5 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 7 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 9 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 11 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 13 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 4 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 10 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 12 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 5 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 7 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 9 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 11 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 13 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 4 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 10 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 12 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 5 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 7 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 9 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 11 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 13 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 4 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 10 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 12 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 5 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 7 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 9 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 11 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 13 Soft Write Errors: 0

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 6 Enabled
Bus 0 Enclosure 0 Disk 8 Enabled
Bus 0 Enclosure 0 Disk 10 Enabled
Bus 0 Enclosure 0 Disk 12 Enabled
Bus 0 Enclosure 0 Disk 1 Enabled
Bus 0 Enclosure 0 Disk 3 Enabled
Bus 0 Enclosure 0 Disk 5 Enabled
Bus 0 Enclosure 0 Disk 7 Enabled
Bus 0 Enclosure 0 Disk 9 Enabled

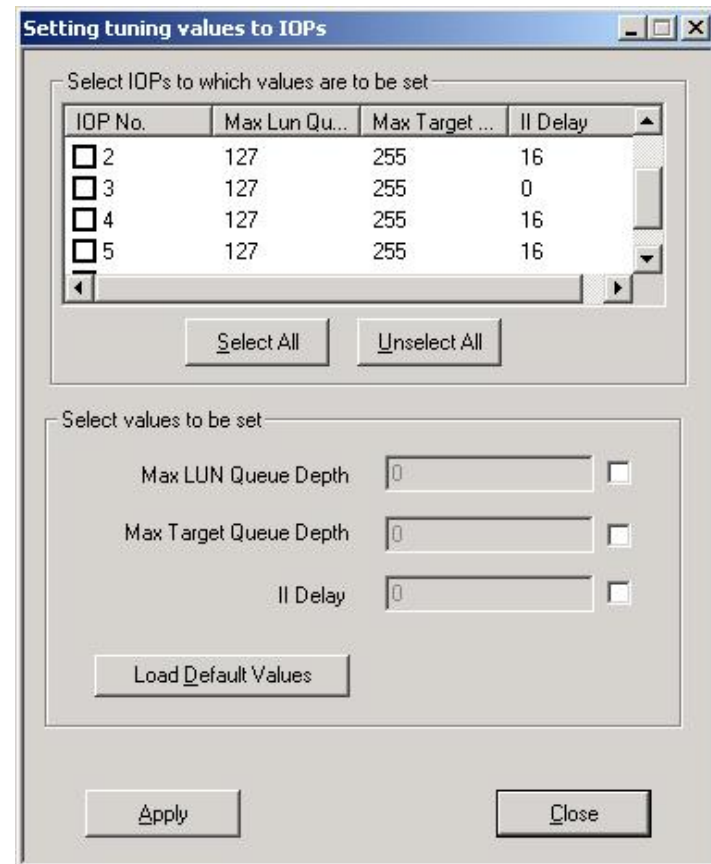
```

```

Bus 0 Enclosure 0 Disk 11 Enabled
Bus 0 Enclosure 0 Disk 13 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

Intellifibre Utility Settings



Time Zone Pacific Standard Time
 Total Physical Memory 131,062.32 MB
 Available Physical Memory 462.89 MB
 Total Virtual Memory 261.91 GB
 Available Virtual Memory 8.96 GB
 Page File Space 133.92 GB
 Page File C:\pagefile.sys

[Hardware Resources]

[Conflicts/Sharing]

| Resource | Device |
|---|---|
| I/O Port 0x00000000-0x00001FFF | PCI bus |
| I/O Port 0x00000000-0x00001FFF | Direct memory access controller |
| I/O Port 0x000003C0-0x000003DF | DEC 21152 PCI to PCI bridge |
| I/O Port 0x000003C0-0x000003DF | Console Manager Video Driver |
| Memory Address 0xF4000000-0xFDFFFFFFFF | PCI bus |
| Memory Address 0xF4000000-0xFDFFFFFFFF | DEC 21152 PCI to PCI bridge |
| Memory Address 0xF4000000-0xFDFFFFFFFF | Console Manager control device |
| I/O Port 0x00002000-0x00002FFF | PCI bus |
| I/O Port 0x00002000-0x00002FFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xEAE00000-0xEAEFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xEAE00000-0xEAEFFFFFFF | PCI standard PCI-to-PCI bridge |
| Memory Address 0xE8000000-0xECFFFFFFF | PCI bus |
| Memory Address 0xE8000000-0xECFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xE8000000-0xECFFFFFFF | PCI standard PCI-to-PCI bridge |
| Memory Address 0xE8000000-0xECFFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter |
| Memory Address 0xE6F00000-0xE6FFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xE6F00000-0xE6FFFFFFF | PCI standard PCI-to-PCI bridge |
| Memory Address 0xEAF00000-0xEAFFFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xEAF00000-0xEAFFFFFFFFF | PCI standard PCI-to-PCI bridge |
| I/O Port 0x00006000-0x00006FFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| I/O Port 0x00006000-0x00006FFF | QLogic QLA23xx PCI Fibre Channel Adapter |

| | |
|--|---|
| Memory Address 0xEFE00000-0xEFEFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xEFE00000-0xEFEFFFFFFF | PCI standard PCI-to-PCI bridge |
| I/O Port 0x00003000-0x00004FFF | PCI bus |
| I/O Port 0x00003000-0x00004FFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| I/O Port 0x00003000-0x00004FFF | QLogic QLA23xx PCI Fibre Channel Adapter |
| I/O Port 0x00005000-0x0000FFFF | PCI bus |
| I/O Port 0x00005000-0x0000FFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| I/O Port 0x00005000-0x0000FFFF | QLogic QLA23xx PCI Fibre Channel Adapter |
| Memory Address 0xE0800000-0xE0FFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xE0800000-0xE0FFFFFFF | PCI standard PCI-to-PCI bridge |
| Memory Address 0xE0800000-0xE0FFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter |
| Memory Address 0xE2F00000-0xE2FFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xE2F00000-0xE2FFFFFFF | PCI standard PCI-to-PCI bridge |
| Memory Address 0xE4000000-0xE7FFFFFFF | PCI bus |
| Memory Address 0xE4000000-0xE7FFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xE4000000-0xE7FFFFFFF | PCI standard PCI-to-PCI bridge |
| Memory Address 0xE4000000-0xE7FFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter |
| Memory Address 0xE8800000-0xE8FFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xE8800000-0xE8FFFFFFF | PCI standard PCI-to-PCI bridge |
| Memory Address 0xE8800000-0xE8FFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter |
| Memory Address 0xED000000-0xEFFFFFFF | PCI bus |
| Memory Address 0xED000000-0xEFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| Memory Address 0xED000000-0xEFFFFFFF | PCI standard PCI-to-PCI bridge |
| Memory Address 0xED000000-0xEFFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter |
| Memory Address 0xA0000-0xFFFFF | PCI bus |
| Memory Address 0xA0000-0xFFFFF | DEC 21152 PCI to PCI bridge |
| Memory Address 0xA0000-0xFFFFF | Console Manager Video Driver |
| Memory Address 0xEFF00000-0xEFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges |

| | | | | |
|--------------------------------------|---|-----------------------|---|---|
| Memory Address 0xEFF00000-0xEFFFFFFF | PCI standard PCI-to-PCI bridge | 0x00000034-0x00000035 | Motherboard resources | OK |
| | | 0x00000038-0x00000039 | Motherboard resources | OK |
| I/O Port 0x000003B0-0x000003BB | DEC 21152 PCI to PCI bridge | 0x0000003C-0x0000003D | Motherboard resources | OK |
| I/O Port 0x000003B0-0x000003BB | Console Manager Video Driver | 0x00000050-0x00000053 | Motherboard resources | OK |
| | | 0x00000072-0x00000077 | Motherboard resources | OK |
| Memory Address 0xF8000000-0xFBFFFFFF | DEC 21152 PCI to PCI bridge | 0x00000080-0x00000080 | Motherboard resources | OK |
| Memory Address 0xF8000000-0xFBFFFFFF | Console Manager Video Driver | 0x00000090-0x0000009F | Motherboard resources | OK |
| | | 0x000000A4-0x000000A5 | Motherboard resources | OK |
| I/O Port 0x00004000-0x00004FFF | Intel(r) 82870 Hub Interface to PCI Bridges | 0x000000A8-0x000000A9 | Motherboard resources | OK |
| | | 0x000000AC-0x000000AD | Motherboard resources | OK |
| I/O Port 0x00004000-0x00004FFF | QLogic QLA23xx PCI Fibre Channel Adapter | 0x000000B0-0x000000B5 | Motherboard resources | OK |
| | | 0x000000B8-0x000000B9 | Motherboard resources | OK |
| Memory Address 0xE6E00000-0xE6FFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | 0x000000BC-0x000000BD | Motherboard resources | OK |
| Memory Address 0xE6E00000-0xE6FFFFFF | PCI standard PCI-to-PCI bridge | 0x00001000-0x0000107F | Motherboard resources | OK |
| | | 0x00001180-0x000011BF | Motherboard resources | OK |
| | | 0x0000002E-0x0000002F | Motherboard resources | OK |
| | | 0x000004D0-0x000004D1 | Motherboard resources | OK |
| | | 0x00000081-0x0000008F | Direct memory access controller | OK |
| | | 0x000000C0-0x000000DF | Direct memory access controller | OK |
| Memory Address 0xE4800000-0xE4FFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | 0x000000F0-0x000000FE | Numeric data processor | OK |
| Memory Address 0xE4800000-0xE4FFFFFF | PCI standard PCI-to-PCI bridge | 0x00000020-0x00000021 | Programmable interrupt controller | OK |
| | | 0x000000A0-0x000000A1 | Programmable interrupt controller | OK |
| | | 0x00000070-0x00000071 | System CMOS/real time clock | OK |
| Memory Address 0xE4800000-0xE4FFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter | 0x00000061-0x00000061 | System speaker | OK |
| | | 0x00000040-0x00000043 | System timer | OK |
| | | 0x000003F8-0x000003FF | Communications Port (COM1) | OK |
| Memory Address 0xED800000-0xEDFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | 0x00000060-0x00000060 | Standard 101/102-Key or Microsoft Natural PS/2 Keyboard | OK |
| Memory Address 0xED800000-0xEDFFFFFF | PCI standard PCI-to-PCI bridge | 0x00000064-0x00000064 | Standard 101/102-Key or Microsoft Natural PS/2 Keyboard | OK |
| | | 0x00001820-0x0000182F | 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 |
| | | 0x00002000-0x00002FFF | PCI bus | OK |
| | | 0x00002000-0x00002FFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| [DMA] | | | | |
| Resource Channel 4 | Device Direct memory access controller | Status OK | | |
| [Forced Hardware] | | | | |
| Device | PNP Device ID | | | |
| [I/O] | | | | |
| Resource 0x00000000-0x00001FFF | Device PCI bus | Status OK | | |
| 0x00000000-0x00001FFF | Direct memory access controller | OK | | |
| 0x00001800-0x0000181F | Intel(r) 82801DB/DBM USB Universal Host Controller - 24C2 | OK | | |
| 0x000003B0-0x000003BB | DEC 21152 PCI to PCI bridge | OK | | |
| 0x000003B0-0x000003BB | Console Manager Video Driver | OK | | |
| 0x000003C0-0x000003DF | DEC 21152 PCI to PCI bridge | OK | | |
| 0x000003C0-0x000003DF | Console Manager Video Driver | 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 | | |
| | | | 0x00002CE0-0x00002CFF | Intel(R) PRO/1000 XT Server Adapter |
| | | | 0x00003000-0x00004FFF | PCI bus |
| | | | 0x00003000-0x00004FFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| | | | 0x00003000-0x00004FFF | QLogic QLA23xx PCI Fibre Channel Adapter |
| | | | 0x00003400-0x000034FF | QLogic QLA23xx PCI Fibre Channel Adapter |
| | | | 0x00004000-0x00004FFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| | | | 0x00004000-0x00004FFF | QLogic QLA23xx PCI Fibre Channel Adapter |
| | | | 0x00004400-0x000044FF | QLogic QLA23xx PCI Fibre Channel Adapter |
| | | | 0x00005000-0x0000FFFF | PCI bus |
| | | | 0x00005000-0x0000FFFF | Intel(r) 82870 Hub Interface to PCI Bridges |
| | | | 0x00005000-0x0000FFFF | QLogic QLA23xx PCI Fibre Channel Adapter |

0x00005400-0x000054FF QLogic QLA23xx PCI Fibre Channel Adapter OK
 0x00006000-0x00006FFF Intel(r) 82870 Hub Interface to PCI Bridges OK
 0x00006000-0x00006FFF QLogic QLA23xx PCI Fibre Channel Adapter OK
 0x00006400-0x000064FF QLogic QLA23xx PCI Fibre Channel Adapter 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 21 | Console Manager control device | OK |
| IRQ 13 | Numeric data processor | OK |
| IRQ 8 | System CMOS/real time clock | OK |
| IRQ 0 | System timer | OK |
| IRQ 4 | Communications Port (COM1) | OK |
| IRQ 12 | PS/2 Compatible Mouse | OK |
| IRQ 1 | Standard 101/102-Key or Microsoft Natural PS/2 Keyboard | OK |

IRQ 14 Primary IDE Channel OK
 IRQ 15 Secondary IDE Channel OK
 IRQ 48 LSI Logic MegaRAID Elite 1650/1700 RAID Controller OK
 IRQ 24 Intel(R) PRO/1000 XT Server Adapter OK
 IRQ 96 QLogic QLA23xx PCI Fibre Channel Adapter OK
 IRQ 100 QLogic QLA23xx PCI Fibre Channel Adapter OK
 IRQ 72 QLogic QLA23xx PCI Fibre Channel Adapter OK
 IRQ 76 QLogic QLA23xx PCI Fibre Channel Adapter OK
 IRQ 144 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
 IRQ 120 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
 IRQ 240 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
 IRQ 216 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
 IRQ 288 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
 IRQ 264 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
 IRQ 340 Unisys Intelligent Fibre Channel Fabric Bus Adapter OK
 IRQ 384 QLogic QLA23xx PCI Fibre Channel Adapter OK
 IRQ 388 QLogic QLA23xx PCI Fibre Channel Adapter OK
 IRQ 360 QLogic QLA23xx PCI Fibre Channel Adapter OK
 IRQ 364 QLogic QLA23xx PCI Fibre Channel Adapter OK

[Memory]

| Resource | Device | Status |
|------------------------|--|--------|
| 0xA0000-0xFFFFF | PCI bus | OK |
| 0xA0000-0xFFFFF | DEC 21152 PCI to PCI bridge | OK |
| 0xA0000-0xFFFFF | Console Manager Video Driver | OK |
| 0xF4000000-0xFDFFFFFFF | PCI bus | OK |
| 0xF4000000-0xFDFFFFFFF | DEC 21152 PCI to PCI bridge | OK |
| 0xF4000000-0xFDFFFFFFF | Console Manager control device | OK |
| 0xF8000000-0xFBFFFFFFF | DEC 21152 PCI to PCI bridge | OK |
| 0xF8000000-0xFBFFFFFFF | Console Manager Video Driver | OK |
| 0xFBFF0000-0xFBFFFFFFF | Console Manager Video Driver | OK |
| 0xFDFFFC00-0xFDFFFFFFF | Intel(r) 82801DB Ultra ATA Storage Controller-24CB | OK |
| 0xF1000000-0xF3FFFFFFF | PCI bus | OK |

| | | |
|--------------------------|---|----|
| 0xF1F00000-0xF1FFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xF1FF0000-0xF1FFFFFFF | LSI Logic MegaRAID Elite 1650/1700 RAID Controller | OK |
| 0xF2F00000-0xF2FFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xF2FE0000-0xF2FFFFFFF | Intel(R) PRO/1000 XT Server Adapter | OK |
| 0xF2FC0000-0xF2FDFFFFFFF | Intel(R) PRO/1000 XT Server Adapter | OK |
| 0xF0000000-0xF0FFFFFFF | PCI bus | OK |
| 0xF0F00000-0xF0FFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xF0FFF000-0xF0FFFFFFF | QLogic QLA23xx PCI Fibre Channel Adapter | OK |
| 0xF0FFE000-0xF0FEFFFFF | QLogic QLA23xx PCI Fibre Channel Adapter | OK |
| 0xF0E00000-0xF0EFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xF0E0FF00-0xF0EFFFFFFF | QLogic QLA23xx PCI Fibre Channel Adapter | OK |
| 0xF0EFE000-0xF0EFEFFFFF | QLogic QLA23xx PCI Fibre Channel Adapter | OK |
| 0xED000000-0xEFFFFFFF | PCI bus | OK |
| 0xED000000-0xEFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xED000000-0xEFFFFFFF | PCI standard PCI-to-PCI bridge | OK |
| 0xED000000-0xEFFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter | OK |
| 0xEFF00000-0xEFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xEFF00000-0xEFFFFFFF | PCI standard PCI-to-PCI bridge | OK |
| 0xED800000-0xEDFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xED800000-0xEDFFFFFFF | PCI standard PCI-to-PCI bridge | OK |
| 0xED800000-0xEDFFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter | OK |
| 0xEFFF0000-0xEFFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter | OK |
| 0xEFE00000-0xEFEFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xEFE00000-0xEFEFFFFFFF | PCI standard PCI-to-PCI bridge | OK |
| 0xEFEFF000-0xEFEFFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter | OK |
| 0xE8000000-0xECFFFFFFF | PCI bus | OK |
| 0xE8000000-0xECFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xE8000000-0xECFFFFFFF | PCI standard PCI-to-PCI bridge | OK |
| 0xE8000000-0xECFFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter | OK |
| 0xEAF00000-0xEAFFFFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xEAF00000-0xEAFFFFFFFFF | PCI standard PCI-to-PCI bridge | OK |
| 0xE8800000-0xE88FFFFFFF | Intel(r) 82870 Hub Interface to PCI Bridges | OK |
| 0xE8800000-0xE88FFFFFFF | PCI standard PCI-to-PCI bridge | OK |
| 0xE8800000-0xE88FFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter | OK |
| 0xEAFF0000-0xEAFFFFFFFFF | Unisys Intelligent Fibre Channel Fabric Bus Adapter | OK |

Adapter RAM 2.00 MB (2,097,152 bytes)
 Installed Drivers unesconf.dll
 Driver Version 6.0.3.31
 INF File oem3.inf (unescons section)
 Color Planes 1
 Color Table Entries 65536
 Resolution 800 x 600 x 72 hertz
 Bits/Pixel 16
 Memory Address 0xF8000000-0xFBFFFFFF
 Memory Address 0xFB000000-0xFBFFFFFF
 I/O Port 0x000003B0-0x000003BB
 I/O Port 0x000003C0-0x000003DF
 Memory Address 0xA0000-0xFFFFF

[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\14
 Number of Function Keys 12
 I/O Port 0x00000060-0x00000060
 I/O Port 0x00000064-0x00000064
 IRQ Channel IRQ 1

[Pointing Device]

Item Value
 Hardware Type PS/2 Compatible Mouse
 Number of Buttons 2
 Status OK
 PNP Device ID ACPI\PNP0F13\14
 Power Management Supported No
 Double Click Threshold 6
 Handedness Right Handed Operation
 IRQ Channel IRQ 12

[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 12/2/2003 10:34 AM
 Index 1
 Service Name AsyncMac
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled No
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address Not Available

Name [00000002] WAN Miniport (L2TP)
 Adapter Type Not Available
 Product Type WAN Miniport (L2TP)
 Installed Yes
 PNP Device ID ROOT\MS_L2TPMINIPOINT\0000
 Last Reset 12/2/2003 10:34 AM
 Index 2
 Service Name Rasl2tp
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled No
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address Not Available

Name [00000003] WAN Miniport (PPTP)
 Adapter Type Wide Area Network (WAN)
 Product Type WAN Miniport (PPTP)
 Installed Yes
 PNP Device ID ROOT\MS_PPTPMINIPOINT\0000
 Last Reset 12/2/2003 10:34 AM
 Index 3
 Service Name PptpMiniport
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled No
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 50:50:54:50:30:30

Name [00000004] WAN Miniport (PPPOE)
 Adapter Type Wide Area Network (WAN)
 Product Type WAN Miniport (PPPOE)
 Installed Yes
 PNP Device ID ROOT\MS_PPPOEMINIPOINT\0000
 Last Reset 12/2/2003 10:34 AM
 Index 4
 Service Name RasPppoe
 IP Address Not Available

IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 33:50:6F:45:30:30

Name [00000005] Direct Parallel
Adapter Type Not Available
Product Type Direct Parallel
Installed Yes
PNP Device ID ROOT\MS_PTMINIPORT\0000
Last Reset 12/2/2003 10:34 AM
Index 5
Service Name Raspti
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

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 12/2/2003 10:34 AM
Index 6
Service Name NdisWan
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000007] Intel(R) PRO/1000 XT Server Adapter
Adapter Type Ethernet 802.3
Product Type Intel(R) PRO/1000 XT Server Adapter
Installed Yes
PNP Device ID PCI\VEN_8086&DEV_1008&SUBSYS_11078086&REV_02\4&1C736D63&0&08F8
Last Reset 12/2/2003 10:34 AM
Index 7
Service Name E1000
IP Address 192.59.13.155
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 00:02:B3:8F:A2:F5
Memory Address 0xF2FE0000-0xF2FFFFFF
Memory Address 0xF2FC0000-0xF2FDFFFF
I/O Port 0x00002CE0-0x00002CFF
IRQ Channel IRQ 24

[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 | 23.00 KB (23,552 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\15 |
| Maximum Input Buffer Size | 0 |
| Maximum Output Buffer Size | No |
| Settable Baud Rate | Yes |
| Settable Data Bits | Yes |
| Settable Flow Control | Yes |
| Settable Parity | Yes |
| Settable Parity Check | Yes |
| Settable Stop Bits | Yes |
| Settable RLSD | Yes |
| Supports RLSD | Yes |
| Supports 16 Bit Mode | No |
| Supports Special Characters | No |
| Baud Rate | 9600 |
| Bits/Byte | 8 |
| Stop Bits | 1 |
| Parity | None |
| Busy | No |
| Abort Read/Write on Error | No |
| Binary Mode Enabled | Yes |
| Continue Xmit on XOff | No |

| | |
|---------------------------|-----------------------|
| CTS Outflow Control | No |
| Discard NULL Bytes | No |
| DSR Outflow Control | 0 |
| DSR Sensitivity | 0 |
| DTR Flow Control Type | Enable |
| EOF Character | 0 |
| Error Replace Character | 0 |
| Error Replacement Enabled | No |
| Event Character | 0 |
| Parity Check Enabled | No |
| RTS Flow Control Type | Enable |
| XOff Character | 19 |
| XOffXmit Threshold | 512 |
| XOn Character | 17 |
| XOnXmit Threshold | 2048 |
| XOnXOff InFlow Control | 0 |
| XOnXOff OutFlow Control | 0 |
| I/O Port | 0x000003F8-0x000003FF |
| IRQ Channel | IRQ 4 |

[Parallel]

| Item | Value |
|------|-------|
|------|-------|

[Storage]

[Drives]

| Item | Value |
|----------------------|---------------------------------|
| Drive A: | |
| Description | 3 1/2 Inch Floppy Drive |
| Drive C: | |
| Description | Local Fixed Disk |
| Compressed | No |
| File System | NTFS |
| Size | 33.47 GB (35,936,247,808 bytes) |
| Free Space | 4.53 GB (4,860,395,520 bytes) |
| Volume Name | |
| Volume Serial Number | C071C483 |
| Drive D: | |
| Description | CD-ROM Disc |
| Drive Z: | |
| Description | Network Connection |
| Provider Name | \\ericthegreat\nas4 |

[Disks]

| Item | Value |
|--------------|---|
| Description | Unisys Intelligent Fibre Channel Fabric Disk Driver |
| Manufacturer | Unisys Corporation |
| Model | DGC RAID 10 0099 |
| Bytes/Sector | 512 |
| Media Loaded | No |
| Media Type | Fixed hard disk |

Partitions Not Available
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 63
 Size 362.35 GB (389,072,194,560 bytes)
 Total Cylinders 47,302
 Total Sectors 759,906,630
 Total Tracks 12,062,010
 Tracks/Cylinder 255
 Partition Disk #112, Partition #0
 Partition Size 362.23 GB (388,940,955,648 bytes)
 Partition Starting Offset 134,235,136 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model DGC RAID 10 0099
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 SCSI Bus 0
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 1
 Sectors/Track 63
 Size 399.63 GB (429,096,407,040 bytes)
 Total Cylinders 52,168
 Total Sectors 838,078,920
 Total Tracks 13,302,840
 Tracks/Cylinder 255
 Partition Disk #111, Partition #0
 Partition Size 399.51 GB (428,967,198,720 bytes)
 Partition Starting Offset 134,235,136 bytes

Description Disk drive
 Manufacturer (Standard disk drives)
 Model MEGARAID LD 0 MEGARAID SCSI Disk Device
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 SCSI Bus 3
 SCSI Logical Unit 0
 SCSI Port 3
 SCSI Target ID 0
 Sectors/Track 63
 Size 33.93 GB (36,429,765,120 bytes)
 Total Cylinders 4,429
 Total Sectors 71,151,885
 Total Tracks 1,129,395
 Tracks/Cylinder 255
 Partition Disk #0, Partition #0
 Partition Size 345.12 MB (361,880,064 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #0, Partition #1
 Partition Size 33.47 GB (35,936,248,320 bytes)
 Partition Starting Offset 493,516,800 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #100, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #100, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #100, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #100, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #99, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #99, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #99, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #99, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)

Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #98, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #98, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #98, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #98, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #97, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #97, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #97, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #97, Partition #3

Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #96, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #96, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #96, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #96, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #95, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #95, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #95, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes

Partition Disk #95, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #94, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #94, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #94, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #94, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #93, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #93, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #93, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)

Partition Starting Offset 16,827,565,056 bytes
Partition Disk #93, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #82, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #82, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #82, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #82, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #81, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #81, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #81, Partition #2

Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #81, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #10, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #10, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #10, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #10, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #9, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #9, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes

Partition Disk #9, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #9, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #8, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #8, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #8, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #8, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 105
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 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #7, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)

Partition Starting Offset 6,750,749,696 bytes
Partition Disk #7, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #7, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #6, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #6, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #6, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #6, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #5, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #5, Partition #1

Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #5, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #5, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #4, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #4, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #4, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #4, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #3, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes

Partition Disk #3, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #3, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #3, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #2, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #2, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #2, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #2, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #1, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)

Partition Starting Offset 134,235,136 bytes
 Partition Disk #1, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #1, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #1, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #92, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #92, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #92, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #92, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #91, Partition #0

Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #91, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #91, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #91, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #90, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #90, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #90, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #90, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #89, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #89, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #89, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #89, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #88, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #88, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #88, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #88, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #87, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #87, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #87, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #87, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #86, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #86, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #86, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #86, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #85, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #85, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #85, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #85, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #84, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #84, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #84, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #84, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #83, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #83, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #83, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #83, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #40, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #40, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #40, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #40, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #39, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #39, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #39, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #39, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #38, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #38, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #38, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #38, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #37, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #37, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #37, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #37, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #36, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #36, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #36, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #36, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #35, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #35, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #35, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #35, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #34, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #34, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #34, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #34, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #33, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #33, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #33, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #33, Partition #3
Partition Size 99.19 GB (106,499,670,016 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available

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 #32, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #32, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #32, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #32, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #31, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #31, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #31, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #31, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available

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 #30, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #30, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #30, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #30, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #29, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #29, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #29, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #29, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0

Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #28, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #28, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #28, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #28, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0

Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available

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 #27, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #27, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #27, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #27, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0

Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #26, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #26, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #26, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #26, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0

Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk

Partitions Not Available
 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 #25, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #25, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #25, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #25, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #24, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #24, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #24, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #24, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No

Media Type Fixed hard disk
 Partitions Not Available
 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 #23, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #23, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #23, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #23, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #22, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #22, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #22, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #22, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

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

Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #21, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #21, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #21, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #21, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #110, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #110, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #110, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #110, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0

Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #109, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #109, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #109, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #109, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #108, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #108, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #108, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #108, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation

Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #107, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #107, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #107, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #107, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #106, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #106, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #106, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #106, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver

Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #105, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #105, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #105, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #105, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #104, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #104, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #104, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #104, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #103, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #103, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #103, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #103, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #102, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #102, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #102, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #102, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #101, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #101, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #101, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #101, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #52, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #52, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #52, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #52, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)

Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #51, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #51, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #51, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #51, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #50, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #50, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #50, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #50, Partition #3

Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #49, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #49, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #49, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #49, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #48, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #48, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #48, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes

Partition Disk #48, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #47, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #47, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #47, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #47, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #46, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #46, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #46, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)

Partition Starting Offset 16,827,565,056 bytes
Partition Disk #46, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #45, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #45, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #45, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #45, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #42, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #42, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #42, Partition #2

Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #42, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #41, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #41, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #41, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #41, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #20, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #20, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes

Partition Disk #20, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #20, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #19, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #19, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #19, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #19, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #18, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #18, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)

Partition Starting Offset 6,750,749,696 bytes
Partition Disk #18, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #18, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #17, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #17, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #17, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #17, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #16, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #16, Partition #1

Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #16, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #16, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #15, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #15, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #15, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #15, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #14, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes

Partition Disk #14, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #14, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #14, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #13, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #13, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #13, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #13, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #12, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)

Partition Starting Offset 134,235,136 bytes
 Partition Disk #12, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #12, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #12, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #11, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #11, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #11, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #11, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #70, Partition #0

Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #70, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #70, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #70, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #69, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #69, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #69, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #69, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #68, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #68, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #68, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #68, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #67, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #67, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #67, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #67, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #66, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #66, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #66, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #66, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #65, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #65, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #65, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #65, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #64, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #64, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #64, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #64, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #63, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #63, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #63, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #63, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #62, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #62, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #62, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #62, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #61, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #61, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #61, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #61, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #60, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #60, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #60, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #60, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #59, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #59, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #59, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #59, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #58, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #58, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #58, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #58, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #57, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #57, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #57, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #57, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #56, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #56, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #56, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #56, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #55, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #55, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #55, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #55, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #54, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #54, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #54, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #54, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available

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 #53, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #53, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #53, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #53, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #44, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #44, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #44, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #44, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available

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 #43, Partition #0
Partition Size 6.16 GB (6,616,514,560 bytes)
Partition Starting Offset 134,235,136 bytes
Partition Disk #43, Partition #1
Partition Size 9.38 GB (10,076,815,360 bytes)
Partition Starting Offset 6,750,749,696 bytes
Partition Disk #43, Partition #2
Partition Size 4.77 GB (5,122,293,760 bytes)
Partition Starting Offset 16,827,565,056 bytes
Partition Disk #43, Partition #3
Partition Size 99.19 GB (106,500,684,288 bytes)
Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
Manufacturer Unisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector 512
Media Loaded No
Media Type Fixed hard disk
Partitions Not Available
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 #80, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #80, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #80, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #80, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0

Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #79, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #79, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #79, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #79, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available

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 #78, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #78, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #78, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #78, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0

Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #77, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #77, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #77, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #77, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk

Partitions Not Available
 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 #76, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #76, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #76, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #76, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #75, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #75, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #75, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #75, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No

Media Type Fixed hard disk
 Partitions Not Available
 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 #74, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #74, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #74, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #74, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #73, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #73, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #73, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #73, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

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

Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #72, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #72, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #72, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #72, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

Description Unisys Intelligent Fibre Channel Fabric Disk Driver
 Manufacturer Unisys Corporation
 Model UNISYS VirtualStorage 01.0
 Bytes/Sector 512
 Media Loaded No
 Media Type Fixed hard disk
 Partitions Not Available
 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 #71, Partition #0
 Partition Size 6.16 GB (6,616,514,560 bytes)
 Partition Starting Offset 134,235,136 bytes
 Partition Disk #71, Partition #1
 Partition Size 9.38 GB (10,076,815,360 bytes)
 Partition Starting Offset 6,750,749,696 bytes
 Partition Disk #71, Partition #2
 Partition Size 4.77 GB (5,122,293,760 bytes)
 Partition Starting Offset 16,827,565,056 bytes
 Partition Disk #71, Partition #3
 Partition Size 99.19 GB (106,500,684,288 bytes)
 Partition Starting Offset 21,949,858,816 bytes

[SCSI]

Item Value

Name LSI Logic MegaRAID Elite 1650/1700 RAID Controller
 Manufacturer LSI Logic Corp.,
 Status OK
 PNP Device ID
 PCI\VEN_101E&DEV_1960&SUBSYS_0494101E&REV_01\4&2EB60AC4&0&08E8

Memory Address 0xF1FF0000-0xF1FFFFFF
 IRQ Channel IRQ 48

Name QLogic QLA23xx PCI Fibre Channel Adapter
 Manufacturer QLogic
 Status OK
 PNP Device ID
 PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\4&19D0D624&0&08E8

I/O Port 0x00003000-0x00004FFF
 Memory Address 0xF0FFF000-0xF0FFFFFF
 IRQ Channel IRQ 96

Name QLogic QLA23xx PCI Fibre Channel Adapter
 Manufacturer QLogic
 Status OK
 PNP Device ID
 PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\4&19D0D624&0&10E8

I/O Port 0x00003400-0x000034FF
 Memory Address 0xF0FFE000-0xF0FFEFF
 IRQ Channel IRQ 100

Name QLogic QLA23xx PCI Fibre Channel Adapter
 Manufacturer QLogic
 Status OK
 PNP Device ID
 PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\4&23D01DA7&0&08F8

I/O Port 0x00004000-0x00004FFF
 Memory Address 0xF0EFF000-0xF0EFFFF
 IRQ Channel IRQ 72

Name QLogic QLA23xx PCI Fibre Channel Adapter
 Manufacturer QLogic
 Status OK
 PNP Device ID
 PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\4&23D01DA7&0&10F8

I/O Port 0x00004400-0x000044FF
 Memory Address 0xF0EFE000-0xF0EFEFFF
 IRQ Channel IRQ 76

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&32153288&0&0008E8

Memory Address 0xED800000-0xEDFFFFFF
 Memory Address 0xEFFFF000-0xEFFFFFFF
 IRQ Channel IRQ 144

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&10B868FB&0&0008F8

Memory Address 0xED000000-0xEFFFFFFF
Memory Address 0xEFEFF000-0xEFEFFFFFFF
IRQ Channel IRQ 120

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&3247C854&0&0008E8

Memory Address 0xE8800000-0xE8FFFFFFF
Memory Address 0xEAFF000-0xEAFFFFFFFFF
IRQ Channel IRQ 240

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&2B2CC0E6&0&0008F8

Memory Address 0xE8000000-0xECFFFFFFF
Memory Address 0xEAEFF000-0xEAEFFFFFFF
IRQ Channel IRQ 216

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&1BB54966&0&0008E8

Memory Address 0xE4800000-0xE4FFFFFFF
Memory Address 0xE6FFF000-0xE6FFFFFFF
IRQ Channel IRQ 288

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&1708E18A&0&0008F8

Memory Address 0xE4000000-0xE7FFFFFFF
Memory Address 0xE6EFF000-0xE6EFFFFFFF
IRQ Channel IRQ 264

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&1CEE6A2&0&0010E8

Memory Address 0xE0800000-0xE0FFFFFFF
Memory Address 0xE2FFF000-0xE2FFFFFFF
IRQ Channel IRQ 340

Name QLogic QLA23xx PCI Fibre Channel Adapter
Manufacturer QLogic
Status OK
PNP Device ID
PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\4&C46511E&0&08E8

I/O Port 0x00005000-0x0000FFFF
Memory Address 0xDFFF000-0xDFFFFFFF
IRQ Channel IRQ 384

Name QLogic QLA23xx PCI Fibre Channel Adapter
Manufacturer QLogic
Status OK
PNP Device ID
PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\4&C46511E&0&10E8

I/O Port 0x00005400-0x000054FF
Memory Address 0xDFFE000-0xDFFEFFFF
IRQ Channel IRQ 388

Name QLogic QLA23xx PCI Fibre Channel Adapter
Manufacturer QLogic
Status OK
PNP Device ID
PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\4&1BD4FF3E&0&08F8

I/O Port 0x00006000-0x00006FFF
Memory Address 0xDFEFF000-0xDFEFFFFFFF
IRQ Channel IRQ 360

Name QLogic QLA23xx PCI Fibre Channel Adapter
Manufacturer QLogic
Status OK
PNP Device ID
PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\4&1BD4FF3E&0&10F8

I/O Port 0x00006400-0x000064FF
Memory Address 0xDFEFE000-0xDFEFEFFF
IRQ Channel IRQ 364

[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_0D801018&REV_01\3&19E45801&0&F9

I/O Port 0x00001820-0x0000182F
Memory Address 0xFDFFC00-0xFDFFFFFFFF

Name Primary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device ID PCIIDE\IDECHANNEL\4&170F438F&0&0
I/O Port 0x000001F0-0x000001F7
I/O Port 0x000003F6-0x000003F6

IRQ Channel IRQ 14

Name Secondary IDE Channel
Manufacturer (Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device ID PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_03\3&23FF515D&0&E8
I/O Port 0x00000170-0x00000177
I/O Port 0x00000376-0x00000376
IRQ Channel IRQ 15

[Printing]

Name Driver Port Name Server Name

[Problem Devices]

Device PNP Device ID Error Code
Intel(r) 82870 Hub Interface to PCI Bridges
PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_03\3&23FF515D&0&E8
This device is not working properly because Windows cannot load the drivers required for this device.
Intel(r) 82870 Hub Interface to PCI Bridges
PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_03\3&23FF515D&0&F8
This device is not working properly because Windows cannot load the drivers required for this device.

[USB]

Device PNP Device ID
Intel(r) 82801DB/DBM USB Universal Host Controller - 24C2
PCI\VEN_8086&DEV_24C2&SUBSYS_0D801018&REV_01\3&19E45801&0&E8

USB Root Hub USB\ROOT_HUB\4&2201EBDC&0

[Software Environment]

[System Drivers]

Name Description File Type Started Start Mode State Status
Error Control Accept Pause Accept Stop
abiosdsk Abiosdsk Not Available Kernel Driver No
Disabled Stopped OK Ignore No No
acpi Microsoft ACPI Driver c:\windows\system32\drivers\acpi.sys Kernel
Driver Yes Boot Running OK Normal No Yes
acpiec ACPIEC c:\windows\system32\drivers\acpiec.sys Kernel Driver
No Disabled Stopped OK Normal No No
adpu160m adpu160m Not Available Kernel Driver No
Disabled Stopped OK Normal No No
adpu320 adpu320 Not Available Kernel Driver No Disabled
Stopped OK Normal No No
afcnt afcnt Not Available Kernel Driver No Disabled
Stopped OK Normal No No
afd AFD Networking Support Environment
c:\windows\system32\drivers\afd.sys Kernel Driver Yes Auto
Running OK Normal No Yes
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
asynccmac RAS Asynchronous Media Driver
c:\windows\system32\drivers\asynccmac.sys Kernel Driver No
Manual Stopped OK Normal No No
ataapi Standard IDE/ESDI Hard Disk Controller
c:\windows\system32\drivers\ataapi.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
cbidf2k cbidf2k c:\windows\system32\drivers\cbidf2k.sys Kernel Driver
No Disabled Stopped OK Normal No No
cdfc Cdfs c:\windows\system32\drivers\cdfc.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
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
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
e1000 Intel(R) PRO/1000 Device Driver
c:\windows\system32\drivers\e1000645.sys Kernel Driver Yes
Manual Running OK Normal No Yes
em em c:\windows\system32\drivers\em.sys Kernel Driver No
Manual Stopped OK Normal No No

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escon Console Manager Control Device
c:\windows\system32\drivers\escon.sys Kernel Driver Yes Boot
Running OK Normal No Yes
esvuart Console Manager Network Connection
c:\windows\system32\drivers\esvuart.sys Kernel Driver No
Auto 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 Flydisk c:\windows\system32\drivers\flpydisk.sys
Kernel Driver No System Stopped OK Ignore No No
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
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
i8042prt i8042 Keyboard and PS/2 Mouse Port Driver
c:\windows\system32\drivers\i8042prt.sys Kernel Driver Yes
System Running OK Normal No Yes
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
Manual 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
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
intelli64 INTELLI64 \??\c:\tmon\intelli64.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

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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
ksecdd KSecDD c:\windows\system32\drivers\ksecdd.sys Kernel Driver
Yes Boot Running OK Normal No Yes
lp6nds35 lp6nds35 Not Available Kernel Driver No
Disabled Stopped OK Normal No No
mmd mmd c:\windows\system32\drivers\mmd.sys Kernel Driver Yes
Manual Running OK Normal No Yes
mnmdd mnmdd Not Available Kernel Driver No System Stopped OK
Ignore No No
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 c:\windows\system32\drivers\mraid35x.sys
Kernel Driver Yes Boot Running OK Normal No Yes
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
mup Mup c:\windows\system32\drivers\mup.sys File System Driver
Yes Boot Running OK Normal No Yes
ndis NDIS System Driver c:\windows\system32\drivers\ndis.sys Kernel
Driver Yes Boot Running OK Normal No Yes
ndistapi Remote Access NDIS TAPI Driver
c:\windows\system32\drivers\ndistapi.sys Kernel Driver Yes
Manual Running OK Normal No Yes
ndisuio NDIS Usermode I/O Protocol
c:\windows\system32\drivers\ndisuio.sys Kernel Driver No
Manual Stopped OK Normal No No
ndiswan Remote Access NDIS WAN Driver
c:\windows\system32\drivers\ndiswan.sys Kernel Driver Yes
Manual Running OK Normal No Yes
ndproxy NDIS Proxy c:\windows\system32\drivers\ndproxy.sys Kernel
Driver Yes Manual Running OK Normal No Yes
netbios NetBIOS Interface c:\windows\system32\drivers\netbios.sys
File System Driver Yes System Running OK Normal No
Yes
netbt NetBios over Tcpip c:\windows\system32\drivers\netbt.sys Kernel
Driver Yes System Running OK Normal No Yes
nfrd960 nfrd960 Not Available Kernel Driver No Disabled
Stopped OK Normal No No
npfs Npfs c:\windows\system32\drivers\npfs.sys File System Driver
Yes System Running OK Normal No Yes

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usbuhci Microsoft USB Universal Host Controller Miniport Driver
c:\windows\system32\drivers\usbuhci.sys Kernel Driver Yes
Manual Running OK Normal No Yes
vga vga c:\windows\system32\drivers\vgapnp.sys Kernel Driver
No Manual Stopped OK Ignore No No
vgasave VGA Display Controller. c:\windows\system32\drivers\vga.sys
Kernel Driver Yes System Running OK Ignore No Yes

viaide ViaIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No
volsnap Storage volumes c:\windows\system32\drivers\volsnap.sys
Kernel Driver Yes Boot Running OK Normal No Yes

wanarp Remote Access IP ARP Driver
c:\windows\system32\drivers\wanarp.sys Kernel Driver Yes
Manual Running OK Normal No Yes
wdica WDICA Not Available Kernel Driver No Manual Stopped OK
Ignore No No
wlbs Network Load Balancing c:\windows\system32\drivers\wlbs.sys Kernel
Driver No Manual Stopped OK Normal No No

[Signed Drivers]

Device Name Signed Device Class Driver Version Driver Date
Manufacturer INF Name Driver Name Device ID
Not Available Not Available Not Available Not Available Not Available Not Available
Not Available Not Available Not Available Not Available HTREE\ROOT\0
ACPI IA64-based PC No COMPUTER 5.2.3790.0 10/1/2002
(Standard computers) hal.inf Not Available ROOT\ACPI_HAL\0000

Microsoft ACPI-Compliant System No SYSTEM 5.2.3790.0
10/1/2002 Microsoft acpi.inf Not Available
ACPI_HAL\PNP0C08\0
PCI bus No SYSTEM 5.2.3790.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\14
Intel(r) 82801DB/DBM USB Universal Host Controller - 24C2 No USB
5.2.3790.0 10/1/2002 Intel usbport.inf Not Available
PCI\VEN_8086&DEV_24C2&SUBSYS_0D801018&REV_01\3&19E45801&0&E8

USB Root Hub No USB 5.2.3790.0 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
USB\ROOT_HUB\4&2201EBDC&0
Intel(R) 82801DB PCI Bridge - 244E No SYSTEM 5.2.3790.0
10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_244E&SUBSYS_00000000&REV_81\3&19E45801&0&F0

DEC 21152 PCI to PCI bridge No SYSTEM 5.2.3790.0 10/1/2002
DEC machine.inf Not Available
PCI\VEN_1011&DEV_0024&SUBSYS_00000000&REV_03\4&866A31E&0&08F0

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_0960&SUBSYS_00000000&REV_05\5&F1487C6&0&0008F0

Console Manager control device No SYSTEM 6.0.3.31
1/10/2003 Unisys Corporation oem2.inf Not Available
PCI\VEN_8086&DEV_1960&SUBSYS_C2001018&REV_05\5&F1487C6&0&0108F0

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Console Manager Video Driver No DISPLAY 6.0.3.31 1/10/2003
Unisys Corporation oem3.inf Not Available
PCI\VEN_1013&DEV_00D6&SUBSYS_80D61018&REV_03\5&F1487C6&0&1008F0

Default Monitor No MONITOR 5.1.2001.0 6/6/2001
(Standard monitor types) monitor.inf Not Available
DISPLAY\DEFAULT_MONITOR\6&3BD89D0&0&11223344&02&02
Intel(r) 82801DB LPC Interface Controller - 24C0 No SYSTEM
5.2.3790.0 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_24C0&SUBSYS_00000000&REV_01\3&19E45801&0&F8

Motherboard resources No SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf Not Available
ACPI\PNP0C02\F
Direct memory access controller No SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available ACPI\PNP0200\1E
Numeric data processor No SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf Not Available
ACPI\PNP0C04\14
Programmable interrupt controller No SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available ACPI\PNP0000\14
System CMOS/real time clock No SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf Not Available
ACPI\PNP0B00\14
System speaker No SYSTEM 5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available ACPI\PNP0800\14

System timer No SYSTEM 5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available ACPI\PNP0100\14

Generic Bus No SYSTEM 5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available ACPI\PNP0A05\2
Communications Port No PORTS 5.2.3790.0 10/1/2002
(Standard port types) msports.inf Not Available
ACPI\PNP0501\15
PS/2 Compatible Mouse No MOUSE 5.2.3790.0 10/1/2002
Microsoft msmouse.inf Not Available ACPI\PNP0F13\14

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\14
Intel(r) 82801DB Ultra ATA Storage Controller-24CB No HDC
5.2.3790.0 10/1/2002 Intel mshdc.inf Not Available
PCI\VEN_8086&DEV_24CB&SUBSYS_0D801018&REV_01\3&19E45801&0&F9

Primary IDE Channel No HDC 5.2.3790.0 10/1/2002
(Standard IDE ATA/ATAPI controllers) mshdc.inf Not Available
PCIIDE\IDECHANNEL\4&170F438F&0&0
CD-ROM Drive No CDROM 5.2.3790.0 10/1/2002 (Standard CD-
ROM drives) cdrom.inf Not Available IDE\CDROMTEAC_CD-
W216E_____1.0A____\5&241BC95A&0&0.0.0
High-Capacity Floppy Disk Drive No FLOPPYDISK 5.2.3790.0
10/1/2002 (Standard floppy disk drives) floppydisk.inf Not
Available IDE\DISKMATSHITA LS-
120/240____00____H050____\59323032484D30413230313220202020202020
020

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Secondary IDE Channel No HDC 5.2.3790.0 10/1/2002
(Standard IDE ATA/ATAPI controllers) mshdc.inf Not Available
PCI\IDE\IDECHANNEL\4&170F438F&0&1

PCI bus No SYSTEM 5.2.3790.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\15

Intel(r) 82870 I/OxAPIC Interrupt Controller No SYSTEM 5.2.3790.0
10/1/2002 Intel machine.inf Not Available
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Intel(r) 82870 Hub Interface to PCI Bridges No SYSTEM 5.2.3790.0
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LSI Logic MegaRAID Elite 1650/1700 RAID Controller No SCSIADAPTER
6.32.2.64 2/6/2003 LSI Logic Corp., oem1.inf
Not Available
PCI\VEN_101E&DEV_1960&SUBSYS_0494101E&REV_01\4&2EB60AC4&0&08E8

LSI Logic MegaRAID Virtual Device No SYSTEM 6.32.2.64
2/6/2003 LSI Logic Corp. oem0.inf Not Available
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Disk drive No DISKDRIVE 5.2.3790.0 10/1/2002
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Intel(r) 82870 I/OxAPIC Interrupt Controller No SYSTEM 5.2.3790.0
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PCI bus No SYSTEM 5.2.3790.0 10/1/2002 (Standard system
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8.2.2.10 4/16/2003 QLogic oem9.inf Not Available
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Qlogic processor device No SYSTEM 5.2.3790.0 10/1/2002
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QLogic QLA23xx PCI Fibre Channel Adapter No SCSIADAPTER
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QLogic QLA23xx PCI Fibre Channel Adapter No SCSIADAPTER
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PCI bus No SYSTEM 5.2.3790.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\17

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Unisys Intelligent Fibre Channel Fabric Bus Adapter No SCSIADAPTER
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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 5.2.3790.0
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Unisys Intelligent Fibre Channel Fabric Bus Adapter No SCSIADAPTER
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(Standard processor types)      cpu.inf Not Available
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(Standard processor types)      cpu.inf Not Available
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ACPI\FIXEDBUTTON\2&DABA3FF&0
Logical Disk Manager      No      SYSTEM      5.2.3790.0      10/1/2002
(Standard system devices)      machine.inf      Not Available
ROOT\DMIO\0000
Volume Manager No      SYSTEM      5.2.3790.0      10/1/2002      (Standard
system devices)      machine.inf      Not Available      ROOT\FTDISK\0000
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volume.inf      Not Available

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volume.inf      Not Available
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volume.inf      Not Available
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volume.inf      Not Available
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volume.inf      Not Available
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volume.inf      Not Available
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volume.inf      Not Available
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6281C469-DB0F-4160-B4F9-5E0594CB1D5F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B01F688F-93DD-4246-91F6-B1F83A0D79CF} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{15529CD3-8B21-4188-BF95-BFE9B0AEADA0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{509A2F33-2B2B-4544-AB4F-205AB89835C2} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E9FA6138-0CC5-4638-B077-0A47FFD6AB28} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{1FAA7835-5861-4A30-86B9-B91F1B464DE4} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4A0F023E-EE89-452A-8439-1C8E37418051} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{8CC33E8A-001F-4B26-9F16-982E6CC26088} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0C4EAD79-0860-49BC-86B0-B2FB8DA81BCE} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{5A5627BC-A278-4297-AF25-B82DB28A5DAB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{774A3C34-F3BB-467D-9BF0-2142A6AEDDCF} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{01B94A3E-EC84-477C-A2AE-291671CF2923} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{FE7B6A6E-3B4D-4A6D-A61E-DF3532CA06AB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{BECC3EB5-71D0-474C-A106-0FD7C0134149} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F8D1E4D8-C6F3-4A28-8780-80B93241B466} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{71BE83C6-874C-45E1-8FA2-67A300C8165C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{CED56E6F-BBEA-46FD-897D-F9CF91E79868} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{EB3666B8-774E-4801-9E8F-A45A4131CA58} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E549FCFD-11FE-489E-AA42-325DFB46DC6C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F75F5A44-A3A9-4F99-87E1-B732D770564C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{675C243D-B276-4D7E-8AAB-8ADAF1ABA9AD} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{08696CC8-4B6F-41CD-BBAE-E64BDF48152A} | | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{DC906D23-3BDF-4740-8108-2F0780124AF4} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C701DD16-0DAE-477B-B50D-19ED448D6B67} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{CD4B6515-04BD-42F1-AC37-C8FF6320F0BA} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{40B02007-000D-45A4-8A2A-5865A9AA5D47} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{38AD53EB-9147-4419-B7EA-86ECDD6E8672} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{BBAC3C10-0320-4D9F-81CA-7B930419AA7A} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4E7DC36A-343E-4B89-A798-E71D7C7EE89C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{76FDDF96-CE8E-4B9C-89EA-F402EA65F6A9} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{37867A43-F252-43AA-B135-BFB00E4B5847} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A2C2170C-04EA-483B-9464-48B5A59672DB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{814D8605-3483-4111-B0F8-3ED52D163A57} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6DD48B5F-B502-4C82-8758-CBF54E5C945B} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E2CC13B1-1F77-48C7-927A-7D34FFC75F6C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{76C79B09-1C39-4836-891B-E936F85AF69D} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{FC204CDE-B962-4B09-A083-3986C542261E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{852D3DFB-82FB-4CD2-919B-09D220826C24} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0D1C97D2-DD02-4BD8-BCA6-2C5AAA500FFE} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A305D57B-3811-4B78-A5C5-FDBB0FBD0F35} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F4E1E240-1F33-4C02-9706-3D3398DF33D8} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0920B400-1555-4690-80B7-4781F438564B} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0BBD137C-D229-401D-8488-90D91A749964} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{21C7453B-8AC6-40DE-993B-A4667591581E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{DB38194B-F8DB-46C8-A37A-94D2193EF6F3} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{EE0BA947-9ED2-48C0-BAE7-CF1CD3DC41F1} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F1947A31-80CF-4F39-9C01-32961F0B3D95} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3945691F-4FAF-4553-A081-C07417375E8F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C7C20ED3-8B3C-40A6-8E0E-4EF037C17E83} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{11362F2C-254A-4EE0-B626-973275C12D73} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C7D5701A-51BE-40F7-8B45-36791055CCD6} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{738F079D-3111-4CE7-B06D-04BA54E386BB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3BFAEEB6-34A2-46AE-AA63-0FD035738893} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C44FFDC8-C613-4FBD-9F38-0083F153A8E6} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3F35EC96-BA45-42C0-AD6B-4FF1AFBC4F75} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A7803811-A384-43FF-B4EA-A930675272CC} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6C970CAC-8CD0-47B3-AED8-3E19559CBF43} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{8DE2DF1C-D28C-49F3-B9C1-85DBD8C4272F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C27EA861-3BAE-49B8-B733-35D11F93A759} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{2F164F34-6691-4577-8246-FCFC17C19EA7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{D07FCDE7-40FE-4AF4-8D76-47454AB69A60} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3D26BDAD-7D22-4015-B471-7F4FB36D240E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{2D9C3986-E6B4-4106-9E78-E92601102C65} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{868048DC-AF44-4F31-BB3E-5B41BF4170BD} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{519A6286-4DAD-4E09-867B-893C69979F46} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F2A0E5BF-9467-45B1-9E84-7BAE99DE240F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{7FB86897-6000-4F9C-81D2-4163749ABF99} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{36528912-0CCF-46F8-A0DB-422CD66FDECD} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3F5F5E1B-2AFD-4FE1-A055-1AC46B19C4F6} | | | |

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|---|-------------------|-----------|-----------|
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{5B93910A-8FF2-42AE-93B2-87A096ED668E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{1DDC5ACF-2425-4852-A938-015737C91C2C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{2541E044-8E93-4E28-BBCD-DAFE36125FA0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C638CD87-2291-4836-B8BD-3180FC91A05F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{CB0E7CD2-FE8B-4ED3-B7AF-90FBFAF1C4264} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3302C885-39DB-4D5A-A776-18DC520E6E67} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{DBC5A0C7-F4CC-453A-82D1-F440B4E1F256} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{99A3B497-BD6A-430D-AB77-B10A8A939102} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{D4B12153-0713-4A0A-98D6-E2B4E8233F9B} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{5CD7EB5C-989D-4317-9035-591DAD3FE684} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{DDD11B2E-0489-4B69-ABF0-DC92A975B661} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4EF14B29-7B2A-4AAC-9792-08A4BB7AFB43} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{938B614D-25DF-4E45-9BA5-7BF5478FE455} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F4E67D81-7F6F-4B96-9332-F658AC73D29A} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A10996A4-6F1A-42FF-B3FC-722F27C5319A} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{AF66AD06-4FA4-48D7-AE2C-C490F36D7CB6} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{ADCC596A-1B9D-407B-B3FB-C4D45538F3AA} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0BDFB9BD-A9BD-4E11-9338-DA76D64AC907} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{5DEFA8F8-B32B-4E48-9206-09B91EF2DE7A} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{9D9D3C68-7FFF-4523-8A5E-32F3AA13FC18} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C3F27768-B5D8-4F01-ABA9-2EB16358D76F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{026AFA28-2AD0-423A-A2CD-64EE305BA7A7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{29D7361E-28D2-4ADC-8B87-187403CB9E31} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{BE9ECD96-F5D0-43B2-86D3-E711F277BDFE} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6171762C-693F-4169-B4B2-27624475453A} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F0B9E26D-9C3B-426E-8D69-BD3F1A732854} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6700EF5C-A33B-42B3-B3FA-0E16A10853E7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{FBB08D48-74F1-4ED4-AA55-5C7ABB0791CB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{DCB596B9-0276-4693-BA5D-186790E43CFB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4A39FBFB-34E5-48A1-B547-2A8CF57E34F7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{EA7D3255-FEBE-497B-8CA0-557682F9C33F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{13C6321A-D94D-4754-BAD6-45C37E13DFC0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C5244F42-66F7-4640-B6E9-7AF738D919F5} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C53C8213-E333-48EA-BB6C-B9BF53D45DB9} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{19FA4142-0A9F-40F6-94E2-D8E42278C34E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{210DF245-14BF-4739-A65D-6ECD8D4570F7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{2B2C4CB3-CA36-43F6-B334-6D8661D35B7F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B622BBC0-DB1F-4A87-8333-208E9BFB6609} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{9CCD3220-EE8D-40A4-B1C0-E1DBBA57006D} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4158AC3C-BEAD-43A7-9B49-68E298343E50} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{D76B6CD4-06EF-4578-92ED-A2391C526B24} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B6E3164A-3094-48E9-B17E-23BC0C391EEB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F482C220-87C1-4E2D-B498-C56B7F51DC80} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B0CC7C9B-6AC2-4D82-8891-236E11EFEF32} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{1DE66789-7330-4C07-AADB-FC1E28E49BF9} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{866277DB-75F3-4579-8BC7-37E151C58E2E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6B185B63-A7F7-4159-B0C5-2D2F53AC1C7E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{1244A45E-709C-48DC-99A6-CD1938B96D8B} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3958C0B2-4BA8-4B75-9AD8-BF4EE2353F6D} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E620DB85-61B3-4BA6-8367-1533CB24B6AA} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{56190DD7-C1AA-41BD-B3B0-6556AAB38BD3} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{39FBC6AB-B86F-4986-A360-7707CB3630E6} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F5DC3070-337C-411C-84DE-A540CDA9CD02} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F6BA67B2-112E-429E-A33A-A8939EA3B0EC} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{AB6C3186-7159-47C2-B453-62EB8D1F93C1} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4140DF5C-7013-4341-A738-9BFCB169E267} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{8FD4451C-3226-4B55-82BF-53ACE974DEDA} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{101B8DF8-7A5E-4419-BF75-05723F1805C2} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{851F50BA-E674-4740-B3C9-10B1CA95C1DD} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{732C260E-D30F-4E25-BB51-1C9FCC4215DD} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{EBD95042-87A9-48B5-9E55-9FD1FC770008} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B7954090-51C5-4AD4-9805-FB2B8350B72A} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C5E2DF5A-827C-4622-A4FB-17C9C623D1EA} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{7656FAD3-219B-4D57-AAF6-A33767056E59} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{002DC013-FCBC-43E5-A12D-3C31AD708329} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{644048A5-4479-413E-86B1-7F568B3195F0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{773D914E-83CD-4D32-AD91-C37988F66FFC} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{CB01D037-C6CC-41ED-B577-F86AA12E09FE} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{7B7D2AB7-A11E-4D99-BEFA-4F2F6450CEFB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{1AE453A9-CF91-4E43-8B71-208D8F72DB16} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{5B36E436-2DD3-4718-B625-8771E1AD70E9} | | | |

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|--|-------------------|-----------|-----------|
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{23614519-3460-4222-8260-2F109C270B0E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{DECD9336-C057-4522-8AC9-6FBEBFF2FD2F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{9E257D5D-1992-4747-81CD-6BD489A4E1C1} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{7BD2B2A0-D2A9-42C0-8097-3699B1F47D2C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{60E43F4D-5977-4B32-970E-50D436F73948} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6D1523AD-0BED-4297-96FB-A860F78F216C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{8EDB064E-F998-4706-AD56-915FD09344A7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{72BFE91E-2668-416E-A38A-2712BEB67996} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4FA31F74-0952-4706-A8A4-D671E2367AE1} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{8DC4EE2C-282E-4434-8763-A9ABBEC1AC1A} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F8E8D04F-124E-4DAA-9887-DD7D330F907A} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{BD405A50-6965-4CBB-B8E0-D4E01A532950} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{59422A64-0720-4AB0-AF2E-D6A1E883F61C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A898C30E-67E5-458F-9AAC-CC137781F865} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{646B761C-0B8F-48F8-A45F-14AB8D75D06F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B835A070-BC8C-4394-8902-AA507F343608} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{DD573D4A-18B6-4169-A0C3-4FE6D8BC7C70} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{1EB00652-3C43-427C-8C53-7639920F162C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{79BA9E9A-C6ED-4333-888F-5E5135FB4BAD} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{622B0C8B-9230-4838-B6B8-12D8874DD320} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3F7BD277-B601-4DA9-B13A-51304F7CB4EB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{AA2F3ED9-8BF1-425E-83B6-1732A16E1934} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3D5E4B63-5EFC-467E-9D18-8608522C445A} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{BBFEBE97-F567-401D-8C10-C92F436886CA} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{7A967FC2-99F3-49C2-9D94-498A3959D4A0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C1C91097-D1C4-4991-9B8C-3A09F2C79C8C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3A1CF4E8-11CD-40EA-8225-245894CCD10D} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0EAE1DD1-63EE-4E04-B205-70AED1185FFB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A3976FCA-1BAA-4637-84F1-1803AEE1D357} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F76C3FF8-C30E-466D-8D23-A024636E25D2} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{2D2B2D3A-7E3C-4F8B-8E38-A11EE703DA9D} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E160C311-DB00-4836-9C26-498795C38AB7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{80A3F026-F6F2-4B59-9513-E47573742D28} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{379C447B-D226-45D9-9EAB-A901786E2CB7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{747DA401-077D-4629-AE38-D8A05A806274} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{BD37AB8C-5854-40AF-917F-F38B56020613} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{721E0AAA-FE99-4B4C-B605-FBAF055EF65E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{FDC4159B-8C50-40B5-A26E-FF1C52081772} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6D75631B-7454-428B-B21C-90DFE796B228} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6BA783FD-5F53-43ED-988C-C7C5434B96DC} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{2B106452-FC74-40F0-ADD2-C65552C6BEC8} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E77C82D9-5D67-4DC6-B535-6C5512D9811C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{1C1F418D-ADFF-4ECF-A6B0-C84BD27BF2A7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F41C4DE6-ED93-403A-B022-71612839C8CE} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0C85F596-4E83-4353-BE07-71D1207B523F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{11DAFDCD-83BD-4CA7-BE09-E459A54B1465} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{04646F0D-2BFD-4F22-A101-1BD807355340} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B8F5A65F-C8CA-4CFC-BFB6-5A839C06A9D1} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C6C536D1-A87A-463E-AD08-162E38A911B3} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{8F9C5E77-2404-43D3-B91C-04B3613C9038} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4C98F210-D67F-4489-8714-6DF67D854EEF} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{BA5B39F2-B3D9-4462-97B9-5E2BDF5F5F00} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{71A59D5D-504F-4A66-927F-DD6D5CFCD5D1} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A8ECC6E5-95D0-40C0-84AC-03D558F11BE7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{D5DD1B70-47F6-458F-9FF6-ED898FE54401} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{EF3AA5BF-91B8-4555-9A2D-A654034175B8} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{071E0041-4EF2-46DF-898E-4D303251EA96} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{AF7478AB-6177-4E81-A343-994A156FA7F2} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{99A14151-4E14-411E-97F8-2DF136EBD745} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3C735188-4263-4447-BEAD-1F87ACC4AF0C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4F2442AD-30A0-4CAD-90EF-DCD806C9B53F} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{CEAAD32-ECA4-4FFF-B2EB-94A627AAF146} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{53FBB74D-EAE6-4F40-AB74-CF080938E0E4} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E8DDC5E7-016A-4EBA-9BFB-81E5BBE5CBAA} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B18F0C72-F704-48BA-86BA-CBBEB3408582} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{32CDFA0B-B9E8-4C60-AD65-41A351D230B8} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{8FA32215-42B0-4E73-81E8-6F20EB42D5BF} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A2C9A104-8A7D-468E-8569-21CCA860EAF4} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{D8D60633-7B0E-44DA-BC37-A13879A91E4C} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4B8E3BB8-5047-4A3D-885D-604928C880E1} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E4EFB35C-F92E-4238-8C9B-51A4FB833104} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{71366667-BA6D-489E-8ABF-ADCD7B714E47} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C67AE185-0046-46D9-862D-C479ED745CB0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{940F98C5-0836-4A29-9733-8EE296F23ACB} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{ECD6C3F2-0D6D-44D7-8C1A-21F5D4B090C5} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{EEA32DF1-BB3F-4E6B-9375-297E36622B0E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{EF3F70A6-B68F-4C34-AD2D-A2FFA2356AE2} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{086AE70D-C3C9-4734-8AA6-ABD383911112} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{D255BAAD-9579-46F8-AA56-741C8786C47} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{744C1FE6-8BCC-4707-9B37-6C96DFBA00DD} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6557A60C-87D3-4735-A764-DBCA308E3BC3} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{5F92BA42-60A2-4FBD-AC63-F69D4861D164} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F3F68CE1-5A77-42D6-BC6A-1147785185F4} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{FE0CFB3C-E70A-4034-AF73-5EB5F927C1D9} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6F103080-E2D5-49B8-BA25-996EF37944D4} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F0684285-B54C-4404-B778-582CF8EF6FA5} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{51C12D31-C0D9-4933-A6C9-2068F4BA1FB2} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A824F7AF-A2E3-45F5-B80B-A2A94BA59C60} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{087A993B-4B02-46FE-A9F7-CBFA3E595141} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0207D19A-9DDE-4FEB-A869-918DC569C7A9} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E80F518D-1B4B-42F1-B426-4C95AF0FB9E1} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{CF11F8AE-BE32-4BB5-99BE-00295EFB49A3} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{BE55DAC1-6465-46E0-8C09-35F39E8166BF} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{CD9E6FBD-BF45-45C5-8A63-EA809D51D472} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{5BEB4398-F086-44CC-97D0-1008CB2861B8} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{6D5FEE3E-B47A-4B49-A8AB-FBD17E55F804} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{DF66F589-F4CB-4FA1-A446-46F583FCB900} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{23AA8B15-9447-4D65-80EE-6086A0C61EC2} | | | |

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|--|-------------------|-----------|-----------|
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{948B500A-BE30-4341-8FBF-EFA648F5D13D} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{136D1210-1D3D-4D86-894C-AF98262802D3} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{DFEAF5EB-2B56-4AA8-8556-4381EB295F25} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4787A967-65A5-4D98-BF87-1455D9B94719} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{14D78AD2-5882-45FD-A4D6-3F28D4ACA2B8} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{86C30D51-691F-4413-A030-9CD32E7D26CE} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{119CB168-5A51-47C0-AF7B-86FDEB50DB45} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{297FC73A-2C79-49F9-9E0D-07CBDFB918C9} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{212C241B-6769-4548-918F-D97D5F0848F7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{48E37ECA-37B5-4BF7-ACA6-293B7E97B130} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{58CA2CE6-1E55-4AF1-8165-B11E4E3EE7D1} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{506082C4-FE59-4696-A2A2-3CCA4729E061} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{564E9F02-BCF1-4D5E-80C1-38FB6427817D} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{19EA2386-D89F-4615-925D-ECE8150DCC0B} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{8D2CB204-4D63-40AD-B58D-D04A576C089B} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{CB811B79-83DA-46FB-8767-1E15DD9F3E14} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4819377D-0CF1-4652-A803-1DC639799E23} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{22DDE923-3519-4F88-AB50-95DFA50CE7C0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E4ED3EE0-3644-49CA-B5CE-0BEF5C7CD4ED} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{3E8BF40D-25AF-4B5D-B03A-A87FB8584A99} | | | |
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| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{39346ADF-599A-4517-93F6-FCF9E311DB14} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{4FCE0BB4-4890-48F6-A2D0-3F0004ACD1A6} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0DDB359A-CCD8-47AA-90D3-3B4324EEF871} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{EBC85FEA-9D19-46B5-9BE9-DC4ADA339BDF} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E4484866-0EBE-41D6-A809-BC343427C747} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{5893201F-FCF2-4F55-AF68-F89EAB6C2E1E} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{9E95D14E-6026-421F-98A2-91C6BF8C86E9} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{1399C884-BB39-462C-9A94-06E1196F0BC0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{FAF8533F-5F4A-4C77-B50C-BCEEC5BF0EC4} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{A159615F-43B8-486F-ACD8-12FF65340B63} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{EEB2F5AA-841F-44C3-91CE-181C4B440F32} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{09DF11BE-6576-42F6-B320-CEAF2C31B583} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{789E97C0-C09C-4A1A-8037-A09D1A2C4D97} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F3EA8C79-8037-4DEA-911E-57062E04AAA0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{72B958C4-94B9-4D62-98BC-DCA3C15C0D59} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{7BE8F6C5-42BD-4DDD-BA5A-2CCF9198B6DE} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{06228F49-4B56-43F7-ADCE-308C83DC4E4D} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{2B05F467-B954-4203-A0DC-4BD587D8B2DF} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{C6309C77-480A-4513-A495-288D17141ABD} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{0769D748-049E-4AB4-9774-F503335021CC} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{8E25BAAE-9E50-4583-9646-BE6244F2CEF7} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{38A99877-89A5-42C8-A3A8-58903C2C51C5} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{7D14AE8F-42A6-4880-A842-BCC3BD212BC9} | | | |
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| volume.inf | Not Available | | |
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| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{E0B6D389-2B39-4116-B0B7-D6ED08FB293A} | | | |
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| volume.inf | Not Available | | |
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| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{1A165726-D8DB-4509-94C6-C8AB39F4413F} | | | |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{9C80E0CF-6583-4570-8C78-ABC34C5DC451} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{39FDC230-4A8A-4206-9D16-872F4F81BB89} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{581C84FB-926D-4DA8-9642-8E1C17EB9059} | | | |

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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{F4778DD5-B671-4D84-A7C2-51713F3C3CE2} | | | |
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| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{D286D6D2-A116-45B1-9D2E-74AB8EDDD821} | | | |
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| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B8B56B8A-621B-4E32-B80C-2F65AA89685D} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{326EFCB8-8789-4A53-9AC7-319B727E1D5B} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{82B9354A-F4EF-4806-B4F5-7CD63C749A70} | | | |
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| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{20FC9B25-6B7E-414C-8415-8F5F9A7B80C0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{B6B37D79-2429-42C3-9EEC-3F620E71CA87} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{95BD5B55-974A-4FA2-93EE-11B4DAA3458B} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{557DE336-6A79-455C-9D8D-34300F6CFB75} | | | |
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| volume.inf | Not Available | | |
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| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{5BEEB9AE-1FF4-468B-8699-112D5B478F92} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{46690695-8C26-4C9A-BD23-EA40EEEE00A0} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |

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| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{D4066076-6EDC-4C11-9C82-6A8F8B95F76B} | | | |
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| volume.inf | Not Available | | |
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| volume.inf | Not Available | | |
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| volume.inf | Not Available | | |
| STORAGE\VOLUME\1&30A96598&0&GPTPARTITION{33B728A7-4F21-4AE9-87A3-673E5A55FAA1} | | | |
| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Generic volume No | VOLUME 5.2.3790.0 | 10/1/2002 | Microsoft |
| volume.inf | Not Available | | |
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| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_AFD\0000 | | | |
| Beep | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_BEEP\0000 | | | |
| CRC Disk Filter Driver | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_CRCDISK\0000 | | | |
| dmboot | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_DMBOOT\0000 | | | |
| dmload | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_DMLOAD\0000 | | | |
| em | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_EM\0000 | | | |
| Fips | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_FIPS\0000 | | | |
| Generic Packet Classifier | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_GPC\0000 | | | |
| INTELLI64 | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_INTELLI64\0000 | | | |
| IPSEC driver | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_IPSEC\0000 | | | |
| ksecdd | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_KSECDD\0000 | | | |
| mountmgr | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_MOUNTMGR\0000 | | | |
| NDIS System Driver | Not Available | LEGACYDRIVER | Not Available |
| Available | Not Available | Not Available | Not Available |
| ROOT\LEGACY_NDIS\0000 | | | |

Remote Access NDIS TAPI Driver Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available Not Available
 ROOT\LEGACY_NDIS_TAPI\0000

NDIS Usermode I/O Protocol Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_NDIS_UIO\0000

NDProxy Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_NDPROXY\0000

NetBios over Tcpip Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_NETBT\0000

Null Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_NULL\0000

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

PCIIde Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_PCIIDE\0000

qlvika Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_QLVIKA\0000

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

RDPCCD Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_RDPCCD\0000

TCP/IP Protocol Driver Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_TCPIP\0000

VGA Display Controller. Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_VGASAVE\0000

volsnap Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_VOLSNAP\0000

Remote Access IP ARP Driver Not Available LEGACYDRIVER Not Available Not Available Not Available Not Available
 ROOT\LEGACY_WANARP\0000

Audio Codecs No MEDIA 5.2.3790.0 10/1/2002 (Standard system devices) wave.inf Not Available ROOT\MEDIA\MS_MMCM

Legacy Audio Drivers No MEDIA 5.2.3790.0 10/1/2002 (Standard system devices) wave.inf Not Available ROOT\MEDIA\MS_MMDRV

Media Control Devices No MEDIA 5.2.3790.0 10/1/2002 (Standard system devices) wave.inf Not Available ROOT\MEDIA\MS_MMMCI

Legacy Video Capture Devices No MEDIA 5.2.3790.0 10/1/2002 (Standard system devices) wave.inf Not Available ROOT\MEDIA\MS_MMVCD

Video Codecs No MEDIA 5.2.3790.0 10/1/2002 (Standard system devices) wave.inf Not Available ROOT\MEDIA\MS_MMVID

WAN Miniport (L2TP) No NET 5.2.3790.0 10/1/2002 Microsoft netrasa.inf Not Available ROOT\MS_L2TPMINIPORT\0000

WAN Miniport (IP) No NET 5.2.3790.0 10/1/2002 Microsoft netrasa.inf Not Available ROOT\MS_NDISWANIP\0000

WAN Miniport (PPPOE) No NET 5.2.3790.0 10/1/2002 Microsoft netrasa.inf Not Available ROOT\MS_PPPOEMINIPORT\0000

WAN Miniport (PPTP) No NET 5.2.3790.0 10/1/2002 Microsoft netrasa.inf Not Available ROOT\MS_PPTPMINIPORT\0000

Direct Parallel No NET 5.2.3790.0 10/1/2002 Microsoft netrasa.inf Not Available ROOT\MS_PTMINIPORT\0000

Terminal Server Device Redirector No SYSTEM 5.2.3790.0 10/1/2002 (Standard system devices) machine.inf Not Available ROOT\RDPDR\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 Mouse Driver No SYSTEM 5.2.3790.0 10/1/2002 (Standard system devices) machine.inf Not Available ROOT\RDP_MOU\0000

Plug and Play Software Device Enumerator No SYSTEM 5.2.3790.0 10/1/2002 (Standard system devices) machine.inf Not Available ROOT\SYSTEM\0000

Unisys Intelligent Fibre Channel Fabric Bus Enumerator No SYSTEM 2.51.0.47 9/19/2003 Unisys Corporation oem5.inf Not Available ROOT\SYSTEM\0001

Unisys Intelligent Fibre Channel Fabric Disk Driver No DISKDRIVE 2.51.0.7 9/19/2003 Unisys Corporation oem8.inf Not Available SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&79F5D87&0&1D4000861000010000000000000A000

Unisys Intelligent Fibre Channel Fabric Disk Driver No DISKDRIVE 2.51.0.7 9/19/2003 Unisys Corporation oem8.inf Not Available SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&79F5D87&0&1D40008610000100000000000009000

Unisys Intelligent Fibre Channel Fabric Disk Driver No DISKDRIVE 2.51.0.7 9/19/2003 Unisys Corporation oem8.inf Not Available SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&79F5D87&0&1D40008610000100000000000008000

Unisys Intelligent Fibre Channel Fabric Disk Driver No DISKDRIVE 2.51.0.7 9/19/2003 Unisys Corporation oem8.inf Not Available SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&79F5D87&0&1D40008610000100000000000007000

Unisys Intelligent Fibre Channel Fabric Disk Driver No DISKDRIVE 2.51.0.7 9/19/2003 Unisys Corporation oem8.inf Not Available SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&79F5D87&0&1D40008610000100000000000006000

Unisys Intelligent Fibre Channel Fabric Disk Driver No DISKDRIVE 2.51.0.7 9/19/2003 Unisys Corporation oem8.inf Not Available SCSI\DISK&VEN_UNISYS__VIRTUALSTORAGE__01.0\1&79F5D87&0&1D40008610000100000000000005000

Unisys Intelligent Fibre Channel Fabric Disk Driver No DISKDRIVE 2.51.0.7 9/19/2003 Unisys Corporation oem8.inf


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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
Not Available
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
Not Available
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
Not Available
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
Not Available
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
Not Available
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
Not Available
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
Not Available
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf
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Unisys Intelligent Fibre Channel Fabric Disk Driver No    DISKDRIVE
2.51.0.7      9/19/2003      Unisys Corporation    oem8.inf

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[Environment Variables]
Variable      Value      User Name
ClusterLog    C:\WINDOWS\Cluster\cluster.log      <SYSTEM>
ComSpec %SystemRoot%\system32\cmd.exe <SYSTEM>
NUMBER_OF_PROCESSORS 16      <SYSTEM>
OS            Windows_NT      <SYSTEM>
Path
%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;C:\P
rogram Files\Microsoft SQL Server\80\Tools\Binn\;C:\Program Files
(x86)\Microsoft SQL Server\80\Tools\Binn\;C:\Program Files\Microsoft SQL
Server\MSSQL\bin\ <SYSTEM>
PATHEXT .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH      <SYSTEM>
PROCESSOR_ARCHITECTURE IA64      <SYSTEM>
PROCESSOR_IDENTIFIER ia64 Family 31 Model 1 Stepping 5, GenuineIntel
<SYSTEM>
PROCESSOR_LEVEL      31      <SYSTEM>
PROCESSOR_REVISION  0105    <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      MV-TPCC-CASSIN\Administrator
TMP %USERPROFILE%\Local Settings\Temp      MV-TPCC-CASSIN\Administrator
[Print Jobs]
Document      Size      Owner      Notify      Status      Time Submitted      Start Time
Until Time
Parameters      Driver      Print Processor      Host      Print Queue
Data Type      Name
[Network Connections]
Local Name      Remote Name      Type      Status      User Name
Z: \\ericthegreat\nas4      Disk      Current Connection      MV-TPCC-
CASSIN\Administrator
[Running Tasks]
Name      Path      Process ID      Priority      Min Working Set      Max
Working Set      Start Time      Version Size      File Date
system idle process      Not Available      0      0      Not Available      Not
Available
Available      Not Available      Not Available      Not Available      Not Available
system Not Available      4      8      0      2826240      Not Available      Not
Available
smss.exe      Not Available      508      11      409600      2826240      12/2/2003
10:36 AM      Not Available      Not Available      Not Available

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csrss.exe      Not Available  556    13    Not Available  Not Available
12/2/2003 10:36 AM    Not Available  Not Available  Not Available

winlogon.exe  c:\windows\system32\winlogon.exe    580    13    409600
2826240 12/2/2003 10:36 AM    5.2.3790.0 (srv03_rtm.030324-2048)
618.00 KB (632,832 bytes)    3/25/2003 4:00 AM

services.exe  c:\windows\system32\services.exe    624    9    409600
2826240 12/2/2003 10:36 AM    5.2.3790.0 (srv03_rtm.030324-2048)
286.00 KB (292,864 bytes)    3/25/2003 4:00 AM

lsass.exe     c:\windows\system32\lsass.exe    636    9    409600
2826240 12/2/2003 10:36 AM    5.2.3790.0 (srv03_rtm.030324-2048)
15.00 KB (15,360 bytes)    3/25/2003 4:00 AM

svchost.exe  c:\windows\system32\svchost.exe    848    8    409600
2826240 12/2/2003 10:36 AM    5.2.3790.0 (srv03_rtm.030324-2048)
32.50 KB (33,280 bytes)    3/25/2003 4:00 AM

svchost.exe  c:\windows\system32\svchost.exe    888    8    409600
2826240 12/2/2003 10:36 AM    5.2.3790.0 (srv03_rtm.030324-2048)
32.50 KB (33,280 bytes)    3/25/2003 4:00 AM

esconmgr.exe c:\windows\system32\esconmgr.exe    948    24   409600
2826240 12/2/2003 10:36 AM    6.0.3.31    155.50 KB (159,232
bytes) 7/15/2003 11:02 AM

mapservant.exe c:\windows\system32\mapservant.exe  968    8    409600
2826240 12/2/2003 10:36 AM    4.0.510.0   176.06 KB (180,283
bytes) 7/23/2003 12:27 PM

explorer.exe  c:\windows\explorer.exe    1320   8    409600
2826240 12/2/2003 10:38 AM    6.00.3790.0 (srv03_rtm.030324-2048)
1.63 MB (1,704,960 bytes)    3/25/2003 4:00 AM

wmiprvse.exe Not Available  1580   8    Not Available  Not Available
12/2/2003 10:39 AM    Not Available  Not Available  Not Available

cmd.exe c:\windows\system32\cmd.exe    832    8    409600 2826240
12/2/2003 11:53 AM    5.2.3790.0 (srv03_rtm.030324-2048)    493.50
KB (505,344 bytes)    3/25/2003 4:00 AM

sqlopt.exe   c:\program files\microsoft sql server\binn\sqlopt.exe
912    13    409600 2826240 12/2/2003 11:53 AM
2000.080.0883.00    23.44 MB (24,579,072 bytes)    11/25/2003
2:39 PM

helpctr.exe  c:\windows\pchealth\helpctr\binaries\helpctr.exe    2000
8    409600 2826240 12/2/2003 5:14 PM    5.2.3790.0
(srv03_rtm.030324-2048)    1.97 MB (2,066,432 bytes)    10/31/2003
12:10 AM

wmiprvse.exe Not Available  1880   8    Not Available  Not Available
12/2/2003 5:14 PM    Not Available  Not Available  Not Available

helpsvc.exe  c:\windows\pchealth\helpctr\binaries\helpsvc.exe    1952
8    409600 2826240 12/2/2003 5:14 PM    5.2.3790.0
(srv03_rtm.030324-2048)    2.18 MB (2,289,152 bytes)    10/31/2003
12:10 AM

[Loaded Modules]

Name  Version Size  File Date      Manufacturer  Path
winlogon  5.2.3790.0 (srv03_rtm.030324-2048)  618.00 KB (632,832
bytes) 3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\winlogon.exe
ntdll  5.2.3790.0 (srv03_rtm.030324-2048)  1.45 MB (1,524,224 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\ntdll.dll

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kernel32     5.2.3790.73 (srv03_qfe.030614-1407)  1.76 MB (1,850,368
bytes) 3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\kernel32.dll
msvcrt  7.0.3790.0 (srv03_rtm.030324-2048)  873.50 KB (894,464 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\msvcrt.dll
advapi32    5.2.3790.0 (srv03_rtm.030324-2048)  1.32 MB (1,383,424
bytes) 3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\advapi32.dll
rpcrt4     5.2.3790.76 (srv03_gdr.030808-1703)  2.03 MB (2,127,872 bytes)
8/23/2003 3:56 PM    Microsoft Corporation
c:\windows\system32\rpcrt4.dll
user32     5.2.3790.73 (srv03_gdr.030614-1005)  1.31 MB (1,372,672 bytes)
8/6/2003 3:44 PM    Microsoft Corporation
c:\windows\system32\user32.dll
gdi32     5.2.3790.0 (srv03_rtm.030324-2048)  783.00 KB (801,792 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\gdi32.dll
userenv  5.2.3790.0 (srv03_rtm.030324-2048)  1.46 MB (1,536,000 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\userenv.dll
nddeapi  5.2.3790.0 (srv03_rtm.030324-2048)  39.50 KB (40,448 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\nddeapi.dll
crypt32    5.131.3790.0 (srv03_rtm.030324-2048)  1.50 MB (1,576,448 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\crypt32.dll
msasn1    5.2.3790.0 (srv03_rtm.030324-2048)  153.50 KB (157,184 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\msasn1.dll
secur32   5.2.3790.0 (srv03_rtm.030324-2048)  166.50 KB (170,496 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\secur32.dll
winsta    5.2.3790.0 (srv03_rtm.030324-2048)  138.50 KB (141,824 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\winsta.dll
netapi32   5.2.3790.0 (srv03_rtm.030324-2048)  832.00 KB (851,968
bytes) 3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\netapi32.dll
profmap  5.2.3790.0 (srv03_rtm.030324-2048)  55.50 KB (56,832 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\profmap.dll
regapi    5.2.3790.0 (srv03_rtm.030324-2048)  124.00 KB (126,976 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\regapi.dll
ws2_32    5.2.3790.0 (srv03_rtm.030324-2048)  228.50 KB (233,984 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\ws2_32.dll
ws2help  5.2.3790.0 (srv03_rtm.030324-2048)  49.50 KB (50,688 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\ws2help.dll
msgina    5.2.3790.0 (srv03_rtm.030324-2048)  1.35 MB (1,417,728 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\msgina.dll
shsvcs   6.00.3790.0 (srv03_rtm.030324-2048)  321.50 KB (329,216 bytes)
3/25/2003 4:00 AM    Microsoft Corporation
c:\windows\system32\shsvcs.dll

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shlwapi 6.00.3790.0 (srv03_rtm.030324-2048) 722.00 KB (739,328 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\shlwapi.dll
sfc 5.2.3790.0 (srv03_rtm.030324-2048) 7.50 KB (7,680 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\sfc.dll
sfc_os 5.2.3790.0 (srv03_rtm.030324-2048) 257.00 KB (263,168 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\sfc_os.dll
wintrust 5.131.3790.0 (srv03_rtm.030324-2048) 451.50 KB (462,336
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wintrust.dll
ole32 5.2.3790.80 (srv03_gdr.030808-1703) 3.39 MB (3,551,744 bytes)
8/23/2003 3:56 PM Microsoft Corporation
c:\windows\system32\ole32.dll
imagehlp 5.2.3790.0 (srv03_rtm.030324-2048) 128.50 KB (131,584
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\imagehlp.dll
comctl32 6.0 (srv03_rtm.030324-2048) 2.18 MB (2,285,056 bytes)
10/30/2003 4:00 PM Microsoft Corporation
c:\windows\winsxs\ia64_microsoft.windows.common-
controls_6595b64144ccf1df_6.0.100.0_x-ww_b3722bab\comctl32.dll
winscard 5.2.3790.0 (srv03_rtm.030324-2048) 291.50 KB (298,496
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\winscard.dll
wtsapi32 5.2.3790.0 (srv03_rtm.030324-2048) 47.50 KB (48,640
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wtsapi32.dll
version 5.2.3790.0 (srv03_rtm.030324-2048) 44.00 KB (45,056 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\version.dll
sxs 5.2.3790.0 (srv03_rtm.030324-2048) 1.77 MB (1,860,608 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\sxs.dll
wldap32 5.2.3790.0 (srv03_rtm.030324-2048) 412.50 KB (422,400 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wldap32.dll
cscdll 5.2.3790.0 (srv03_rtm.030324-2048) 211.00 KB (216,064 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\cscdll.dll
wlnotify 5.2.3790.0 (srv03_rtm.030324-2048) 218.00 KB (223,232
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wlnotify.dll
winmm 5.2.3790.0 (srv03_rtm.030324-2048) 404.00 KB (413,696 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\winmm.dll
winspool 5.2.3790.0 (srv03_rtm.030324-2048) 399.50 KB (409,088
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\winspool.drv
setupapi 5.2.3790.0 (srv03_rtm.030324-2048) 1.90 MB (1,991,168
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\setupapi.dll
mpr 5.2.3790.0 (srv03_rtm.030324-2048) 163.00 KB (166,912 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\mpr.dll
shell32 6.00.3790.0 (srv03_rtm.030324-2048) 12.35 MB (12,953,088 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\shell32.dll

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comctl32 5.82 (srv03_rtm.030324-2048) 1.55 MB (1,621,504 bytes)
10/30/2003 4:00 PM Microsoft Corporation
c:\windows\winsxs\ia64_microsoft.windows.common-
controls_6595b64144ccf1df_5.82.0.0_x-ww_b9c4a0a5\comctl32.dll
uxtheme 6.00.3790.0 (srv03_rtm.030324-2048) 527.50 KB (540,160 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\uxtheme.dll
samlib 5.2.3790.0 (srv03_rtm.030324-2048) 106.00 KB (108,544 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\samlib.dll
cscui 5.2.3790.0 (srv03_rtm.030324-2048) 574.00 KB (587,776 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\cscui.dll
ntmarta 5.2.3790.0 (srv03_rtm.030324-2048) 343.50 KB (351,744 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\ntmarta.dll
oleaut32 5.2.3790.0 3.57 MB (3,739,136 bytes) 3/25/2003 4:00
AM Microsoft Corporation c:\windows\system32\oleaut32.dll
clbcatq 2001.12.4720.0 (srv03_rtm.030324-2048) 1.23 MB (1,292,800
bytes) 10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\clbcatq.dll
comres 2001.12.4720.0 (srv03_rtm.030324-2048) 779.50 KB (798,208
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\comres.dll
wbemprox 5.2.3790.0 (srv03_rtm.030324-2048) 46.00 KB (47,104
bytes) 10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\wbemprox.dll
wbemcomn 5.2.3790.0 (srv03_rtm.030324-2048) 598.50 KB (612,864
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wbem\wbemcomn.dll
wbemsvc 5.2.3790.0 (srv03_rtm.030324-2048) 62.50 KB (64,000 bytes)
10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\wbemsvc.dll
fastprox 5.2.3790.0 (srv03_rtm.030324-2048) 1.51 MB (1,580,544
bytes) 10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\fastprox.dll
msvcpx60 6.10.2240.8 941.50 KB (964,096 bytes) 3/25/2003 4:00 AM
Microsoft Corporation c:\windows\system32\msvcpx60.dll
ntdsapi 5.2.3790.0 (srv03_rtm.030324-2048) 181.50 KB (185,856 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\ntdsapi.dll
dnsapi 5.2.3790.0 (srv03_rtm.030324-2048) 404.00 KB (413,696 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\dnsapi.dll
services 5.2.3790.0 (srv03_rtm.030324-2048) 286.00 KB (292,864
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\services.exe
scserv 5.2.3790.0 (srv03_rtm.030324-2048) 765.00 KB (783,360 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\scserv.dll
authz 5.2.3790.0 (srv03_rtm.030324-2048) 202.50 KB (207,360 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\authz.dll
umpnpmgr 5.2.3790.0 (srv03_rtm.030324-2048) 314.50 KB (322,048
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\umpnpmgr.dll
ncobjapi 5.2.3790.0 (srv03_rtm.030324-2048) 118.50 KB (121,344
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\ncobjapi.dll

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eventlog 5.2.3790.0 (srv03_rtm.030324-2048) 157.00 KB (160,768
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\eventlog.dll
psapi 5.2.3790.0 (srv03_rtm.030324-2048) 48.00 KB (49,152 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\psapi.dll
lsass 5.2.3790.0 (srv03_rtm.030324-2048) 15.00 KB (15,360 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\lsass.exe
lsasrv 5.2.3790.0 (srv03_rtm.030324-2048) 1.94 MB (2,033,664 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\lsasrv.dll
samsrv 5.2.3790.0 (srv03_rtm.030324-2048) 1,005.00 KB (1,029,120 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\samsrv.dll
cryptdll 5.2.3790.0 (srv03_rtm.030324-2048) 61.00 KB (62,464
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\cryptdll.dll
msprivs 5.2.3790.0 (srv03_rtm.030324-2048) 46.00 KB (47,104 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\msprivs.dll
kerberos 5.2.3790.0 (srv03_rtm.030324-2048) 876.00 KB (897,024
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\kerberos.dll
msv1_0 5.2.3790.0 (srv03_rtm.030324-2048) 333.50 KB (341,504 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\msv1_0.dll
netlogon 5.2.3790.0 (srv03_rtm.030324-2048) 936.50 KB (958,976
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\netlogon.dll
w32time 5.2.3790.0 (srv03_rtm.030324-2048) 540.50 KB (553,472 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\w32time.dll
iphlpapi 5.2.3790.0 (srv03_rtm.030324-2048) 223.00 KB (228,352
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\iphlpapi.dll
schannel 5.2.3790.0 (srv03_rtm.030324-2048) 468.50 KB (479,744
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\schannel.dll
wdigest 5.2.3790.0 (srv03_rtm.030324-2048) 161.50 KB (165,376 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wdigest.dll
rsaenh 5.2.3790.0 (srv03_rtm.030324-2048) 371.83 KB (380,752 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\rsaenh.dll
rassfm 5.2.3790.0 (srv03_rtm.030324-2048) 56.00 KB (57,344 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\rassfm.dll
kdcsvc 5.2.3790.0 (srv03_rtm.030324-2048) 571.50 KB (585,216 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\kdcsvc.dll
ntdsa 5.2.3790.0 (srv03_rtm.030324-2048) 3.82 MB (4,008,448 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\ntdsa.dll
ntdsatq 5.2.3790.0 (srv03_rtm.030324-2048) 80.50 KB (82,432 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\ntdsatq.dll

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mwssock 5.2.3790.0 (srv03_rtm.030324-2048) 671.00 KB (687,104 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\mwssock.dll
esent 5.2.3790.0 (srv03_rtm.030324-2048) 2.48 MB (2,605,056 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\esent.dll
scecli 5.2.3790.0 (srv03_rtm.030324-2048) 467.50 KB (478,720 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\scecli.dll
wshtcpip 5.2.3790.0 (srv03_rtm.030324-2048) 38.00 KB (38,912
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wshtcpip.dll
dssenh 5.2.3790.0 (srv03_rtm.030324-2048) 319.33 KB (326,992 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\dssenh.dll
svchost 5.2.3790.0 (srv03_rtm.030324-2048) 32.50 KB (33,280 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\svchost.exe
rpcss 5.2.3790.80 (srv03_gdr.030808-1703) 650.00 KB (665,600 bytes)
8/23/2003 3:56 PM Microsoft Corporation
c:\windows\system32\rpcss.dll
wkssvc 5.2.3790.90 (srv03_gdr.030906-2150) 304.00 KB (311,296 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wkssvc.dll
dmserver 5.2.3790.0 (srv03_rtm.030324-2048) 45.50 KB (46,592
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\dmserver.dll
srvsvc 5.2.3790.0 (srv03_rtm.030324-2048) 188.00 KB (192,512 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\srvsvc.dll
ntlsapi 5.2.3790.0 (srv03_rtm.030324-2048) 14.50 KB (14,848 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\ntlsapi.dll
es 2001.12.4720.0 (srv03_rtm.030324-2048) 637.50 KB (652,800
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\es.dll
wiarpc 5.2.3790.0 (srv03_rtm.030324-2048) 67.50 KB (69,120 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wiarpc.dll
netman 5.2.3790.0 (srv03_rtm.030324-2048) 591.00 KB (605,184 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\netman.dll
mprapi 5.2.3790.0 (srv03_rtm.030324-2048) 238.00 KB (243,712 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\mprapi.dll
activeds 5.2.3790.0 (srv03_rtm.030324-2048) 543.50 KB (556,544
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\activeds.dll
adslrpc 5.2.3790.0 (srv03_rtm.030324-2048) 312.00 KB (319,488 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\adslrpc.dll
credui 5.2.3790.0 (srv03_rtm.030324-2048) 288.00 KB (294,912 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\credui.dll
atl 3.00.2282 348.00 KB (356,352 bytes) 3/25/2003 4:00 AM
Microsoft Corporation c:\windows\system32\atl.dll
rtutils 5.2.3790.0 (srv03_rtm.030324-2048) 81.50 KB (83,456 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\rtutils.dll

```

```

rasapi32 5.2.3790.0 (srv03_rtm.030324-2048) 589.50 KB (603,648
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\rasapi32.dll
rasman 5.2.3790.0 (srv03_rtm.030324-2048) 154.50 KB (158,208 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\rasman.dll
tapi32 5.2.3790.0 (srv03_rtm.030324-2048) 493.00 KB (504,832 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\tapi32.dll
wzcsvc 5.2.3790.0 (srv03_rtm.030324-2048) 608.50 KB (623,104 bytes)
3/25/2003 5:19 AM Microsoft Corporation
c:\windows\system32\wzcsvc.dll
wmi 5.2.3790.0 (srv03_rtm.030324-2048) 5.00 KB (5,120 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wmi.dll
dhcpcsvc 5.2.3790.0 (srv03_rtm.030324-2048) 279.50 KB (286,208
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\dhcpcsvc.dll
wzcsapi 5.2.3790.0 (srv03_rtm.030324-2048) 49.50 KB (50,688 bytes)
3/25/2003 5:19 AM Microsoft Corporation
c:\windows\system32\wzcsapi.dll
netshell 5.2.3790.0 (srv03_rtm.030324-2048) 2.65 MB (2,779,648
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\netshell.dll
clusapi 5.2.3790.0 (srv03_rtm.030324-2048) 165.50 KB (169,472 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\clusapi.dll
hnetcfg 5.2.3790.0 (srv03_rtm.030324-2048) 764.00 KB (782,336 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\hnetcfg.dll
wininet 6.00.3790.0 (srv03_rtm.030324-2048) 1.43 MB (1,500,672 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wininet.dll
wmisvc 5.2.3790.0 (srv03_rtm.030324-2048) 408.50 KB (418,304 bytes)
10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\wmisvc.dll
vssapi 5.2.3790.0 (srv03_rtm.030324-2048) 1.28 MB (1,339,904 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\vssapi.dll
wbemcore 5.2.3790.0 (srv03_rtm.030324-2048) 1.64 MB (1,723,904
bytes) 10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\wbemcore.dll
esscli 5.2.3790.0 (srv03_rtm.030324-2048) 919.50 KB (941,568 bytes)
10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\esscli.dll
wmiutils 5.2.3790.0 (srv03_rtm.030324-2048) 285.00 KB (291,840
bytes) 10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\wmiutils.dll
repdrvfs 5.2.3790.0 (srv03_rtm.030324-2048) 595.50 KB (609,792
bytes) 10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\repdrvfs.dll
wmiprvsd 5.2.3790.0 (srv03_rtm.030324-2048) 1.38 MB (1,443,328
bytes) 10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\wmiprvsd.dll
wbemess 5.2.3790.0 (srv03_rtm.030324-2048) 976.50 KB (999,936 bytes)
10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\wbemess.dll

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comsvcs 2001.12.4720.0 (srv03_rtm.030324-2048) 2.96 MB (3,106,816
bytes) 10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\comsvcs.dll
sens 5.2.3790.0 (srv03_rtm.030324-2048) 90.50 KB (92,672 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\sens.dll
rasdlg 5.2.3790.0 (srv03_rtm.030324-2048) 1.35 MB (1,420,800 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\rasdlg.dll
ncprov 5.2.3790.0 (srv03_rtm.030324-2048) 133.50 KB (136,704 bytes)
10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\ncprov.dll
rasadhlp 5.2.3790.0 (srv03_rtm.030324-2048) 13.00 KB (13,312
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\rasadhlp.dll
pchsvc 5.2.3790.0 (srv03_rtm.030324-2048) 94.50 KB (96,768 bytes)
10/31/2003 12:10 AM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchsvc.dll
wbemcons 5.2.3790.0 (srv03_rtm.030324-2048) 237.50 KB (243,200
bytes) 10/31/2003 12:09 AM Microsoft Corporation
c:\windows\system32\wbem\wbemcons.dll
esconmgr 6.0.3.31 155.50 KB (159,232 bytes) 7/15/2003
11:02 AM Unisys Corporation c:\windows\system32\esconmgr.exe
MapServant 4.0.510.0 176.06 KB (180,283 bytes) 7/23/2003
12:27 PM Unisys Corporation c:\windows\system32\mapservant.exe
wow64 5.2.3790.0 (srv03_rtm.030324-2048) 438.50 KB (449,024 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wow64.dll
wow64win 5.2.3790.0 (srv03_rtm.030324-2048) 514.50 KB (526,848
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wow64win.dll
wow64cpu 5.2.3790.0 (srv03_rtm.030324-2048) 38.00 KB (38,912
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\wow64cpu.dll
explorer 6.00.3790.0 (srv03_rtm.030324-2048) 1.63 MB (1,704,960
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\explorer.exe
browseui 6.00.3790.0 (srv03_rtm.030324-2048) 2.42 MB (2,536,960
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\browseui.dll
shdocvw 6.00.3790.85 (srv03_gdr.030906-2150) 3.20 MB (3,359,744 bytes)
9/22/2003 4:10 PM Microsoft Corporation
c:\windows\system32\shdocvw.dll
apphelp 5.2.3790.0 (srv03_rtm.030324-2048) 262.50 KB (268,800 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\apphelp.dll
themeui 6.00.3790.0 (srv03_rtm.030324-2048) 823.00 KB (842,752 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\themeui.dll
msimg32 5.2.3790.0 (srv03_rtm.030324-2048) 7.00 KB (7,168 bytes)
3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\msimg32.dll
actxprxy 6.00.3790.0 (srv03_rtm.030324-2048) 230.00 KB (235,520
bytes) 3/25/2003 4:00 AM Microsoft Corporation
c:\windows\system32\actxprxy.dll

```

linkinfo 5.2.3790.0 (srv03_rtm.030324-2048) 42.00 KB (43,008 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\linkinfo.dll

ntshrui 6.00.3790.0 (srv03_rtm.030324-2048) 233.50 KB (239,104 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\ntshrui.dll

urlmon 6.00.3790.87 (srv03_gdr.030906-2150) 1.21 MB (1,271,808 bytes) 9/22/2003 4:10 PM Microsoft Corporation c:\windows\system32\urlmon.dll

webcheck 6.00.3790.0 (srv03_rtm.030324-2048) 664.50 KB (680,448 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\webcheck.dll

wsock32 5.2.3790.0 (srv03_rtm.030324-2048) 23.00 KB (23,552 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\wsock32.dll

stobject 5.2.3790.0 (srv03_rtm.030324-2048) 178.00 KB (182,272 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\stobject.dll

batmeter 6.00.3790.0 (srv03_rtm.030324-2048) 55.50 KB (56,832 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\batmeter.dll

powrprof 6.00.3790.0 (srv03_rtm.030324-2048) 36.00 KB (36,864 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\powrprof.dll

printui 5.2.3790.0 (srv03_rtm.030324-2048) 1.09 MB (1,142,784 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\printui.dll

cfgmgr32 5.2.3790.0 (srv03_rtm.030324-2048) 16.00 KB (16,384 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\cfgmgr32.dll

drprov 5.2.3790.0 (srv03_rtm.030324-2048) 26.50 KB (27,136 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\drprov.dll

ntlman 5.2.3790.0 (srv03_rtm.030324-2048) 108.00 KB (110,592 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\ntlman.dll

netui0 5.2.3790.0 (srv03_rtm.030324-2048) 181.50 KB (185,856 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\netui0.dll

netui1 5.2.3790.0 (srv03_rtm.030324-2048) 482.00 KB (493,568 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\netui1.dll

davclnt 5.2.3790.0 (srv03_rtm.030324-2048) 59.00 KB (60,416 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\davclnt.dll

browseic 6.00.3790.0 (srv03_rtm.030324-2048) 61.50 KB (62,976 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\browseic.dll

shdoclc 6.00.3790.0 (srv03_rtm.030324-2048) 588.00 KB (602,112 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\shdoclc.dll

mprui 5.2.3790.0 (srv03_rtm.030324-2048) 97.00 KB (99,328 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\mprui.dll

netui2 5.2.3790.0 (srv03_rtm.030324-2048) 761.50 KB (779,776 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\netui2.dll

comdlg32 6.00.3790.0 (srv03_rtm.030324-2048) 706.00 KB (722,944 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\comdlg32.dll

netmsg 5.2.3790.0 (srv03_rtm.030324-2048) 177.50 KB (181,760 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\netmsg.dll

netplwiz 5.2.3790.0 (srv03_rtm.030324-2048) 1.09 MB (1,147,904 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\netplwiz.dll

mydocs 6.00.3790.0 (srv03_rtm.030324-2048) 129.00 KB (132,096 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\mydocs.dll

wshext 5.6.0.8515 150.50 KB (154,112 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\wshext.dll

mfc42 6.00.3014.0 3.36 MB (3,526,656 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\mfc42.dll

cmd 5.2.3790.0 (srv03_rtm.030324-2048) 493.50 KB (505,344 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\cmd.exe

sqlopt 2000.080.0883.00 23.44 MB (24,579,072 bytes) 11/25/2003 2:39 PM Microsoft Corporation c:\program files\microsoft sql server\mssql\bin\sqlopt.exe

opends60 2000.080.0760.00 26.50 KB (27,136 bytes) 2/6/2003 9:48 PM Microsoft Corporation c:\program files\microsoft sql server\mssql\bin\opends60.dll

sqlsort 2000.080.0760.00 602.00 KB (616,448 bytes) 2/6/2003 9:49 PM Microsoft Corporation c:\program files\microsoft sql server\mssql\bin\sqlsort.dll

msvcirt 7.0.3790.0 (srv03_rtm.030324-2048) 161.50 KB (165,376 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\msvcirt.dll

sqllevn70 2000.080.0760.00 19.50 KB (19,968 bytes) 2/6/2003 1:05 PM Microsoft Corporation c:\program files\microsoft sql server\mssql\bin\resources\1033\sqllevn70.rll

xolehlp 2001.12.4720.0 (srv03_rtm.030324-2048) 15.50 KB (15,872 bytes) 10/31/2003 12:09 AM Microsoft Corporation c:\windows\system32\xolehlp.dll

msdtcprx 2001.12.4720.0 (srv03_rtm.030324-2048) 1.23 MB (1,285,120 bytes) 10/31/2003 12:09 AM Microsoft Corporation c:\windows\system32\msdtcprx.dll

mtxclu 2001.12.4720.0 (srv03_rtm.030324-2048) 199.00 KB (203,776 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\mtxclu.dll

resutils 5.2.3790.0 (srv03_rtm.030324-2048) 147.50 KB (151,040 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\resutils.dll

mfc42u 6.00.3014.0 3.34 MB (3,506,176 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\mfc42u.dll

winrnr 5.2.3790.0 (srv03_rtm.030324-2048) 39.00 KB (39,936 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\winrnr.dll

ssnetlib 2000.080.0851.00 249.00 KB (254,976 bytes) 3/2/2003 2:08 PM Microsoft Corporation c:\program files\microsoft sql server\mssql\bin\ssnetlib.dll

security 5.2.3790.0 (srv03_rtm.030324-2048) 7.00 KB (7,168 bytes) 3/25/2003 4:00 AM Microsoft Corporation c:\windows\system32\security.dll

```

ssmslpcn      2000.080.0760.00      44.00 KB (45,056 bytes)
2/6/2003 9:49 PM      Microsoft Corporation c:\program
files\microsoft sql server\mssql\binn\ssmslpcn.dll
ssnmpn70     2000.080.0760.00      20.50 KB (20,992 bytes)
2/6/2003 9:49 PM      Microsoft Corporation c:\program
files\microsoft sql server\mssql\binn\ssnmpn70.dll
ssmsqlgc     2000.080.0851.00      58.50 KB (59,904 bytes)
2/6/2003 9:49 PM      Microsoft Corporation c:\program
files\microsoft sql server\mssql\binn\ssmsqlgc.dll
qlvipl      Not Available 436.00 KB (446,464 bytes)      11/14/2003 9:37 AM
Not Available c:\windows\system32\qlvipl.dll
helpctr      5.2.3790.0 (srv03_rtm.030324-2048) 1.97 MB (2,066,432 bytes)
10/31/2003 12:10 AM      Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpctr.exe
hcappres     5.2.3790.0 (srv03_rtm.030324-2048) 6.00 KB (6,144 bytes)
10/31/2003 12:10 AM      Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\hcappres.dll
itss         5.2.3790.0 (srv03_rtm.030324-2048) 349.00 KB (357,376 bytes)
3/25/2003 4:00 AM      Microsoft Corporation
c:\windows\system32\itss.dll
msxml3       8.40.9419.0      3.42 MB (3,590,656 bytes)      3/25/2003 4:00 AM
Microsoft Corporation c:\windows\system32\msxml3.dll
pchshell     5.2.3790.0 (srv03_rtm.030324-2048) 277.50 KB (284,160
bytes)      10/31/2003 12:10 AM      Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchshell.dll
mlang        6.00.3790.0 (srv03_rtm.030324-2048) 799.00 KB (818,176 bytes)
3/25/2003 4:00 AM      Microsoft Corporation
c:\windows\system32\mlang.dll
mshtml       6.00.3790.88 (srv03_gdr.030906-2150) 7.83 MB (8,210,944 bytes)
9/22/2003 4:10 PM      Microsoft Corporation
c:\windows\system32\mshtml.dll
msimtf       5.2.3790.0 (srv03_rtm.030324-2048) 528.00 KB (540,672 bytes)
3/25/2003 4:00 AM      Microsoft Corporation
c:\windows\system32\msimtf.dll
msctf        5.2.3790.0 (srv03_rtm.030324-2048) 924.50 KB (946,688 bytes)
3/25/2003 4:00 AM      Microsoft Corporation
c:\windows\system32\msctf.dll
jscript      5.6.0.8515      1.21 MB (1,268,736 bytes)      3/25/2003 4:00 AM
Microsoft Corporation c:\windows\system32\jscript.dll
mcls31       3.10.349.0      448.00 KB (458,752 bytes)      3/25/2003 4:00 AM
Microsoft Corporation c:\windows\system32\mcls31.dll
imm32        5.2.3790.0 (srv03_rtm.030324-2048) 307.50 KB (314,880 bytes)
3/25/2003 4:00 AM      Microsoft Corporation
c:\windows\system32\imm32.dll
mshtmlmed   6.00.3790.0 (srv03_rtm.030324-2048) 1.34 MB (1,408,512
bytes)      3/25/2003 4:00 AM      Microsoft Corporation
c:\windows\system32\mshtmlmed.dll
vbscript     5.6.0.8515      1.06 MB (1,110,016 bytes)      3/25/2003 4:00
AM      Microsoft Corporation c:\windows\system32\vbscript.dll
msinfo       5.2.3790.0 (srv03_rtm.030324-2048) 1.20 MB (1,257,984 bytes)
10/31/2003 12:10 AM      Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo.dll
riched32     5.2.3790.0 (srv03_rtm.030324-2048) 5.00 KB (5,120 bytes)
3/25/2003 4:00 AM      Microsoft Corporation
c:\windows\system32\riched32.dll
riched20     5.31.23.1218    1.25 MB (1,313,280 bytes)      3/25/2003 4:00
AM      Microsoft Corporation c:\windows\system32\riched20.dll

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helpsvc 5.2.3790.0 (srv03_rtm.030324-2048) 2.18 MB (2,289,152 bytes)
10/31/2003 12:10 AM      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
Alerter Alerter Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k localservice Normal NT
AUTHORITY\LocalService 0
Application Layer Gateway Service ALG Stopped Manual Own Process
c:\windows\system32\alg.exe Normal NT AUTHORITY\LocalService
0
Application Management AppMgmt Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Windows Audio AudioSrv Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Background Intelligent Transfer Service BITS Stopped Disabled
Share Process c:\windows\system32\svchost.exe -k netsvcs Normal
LocalSystem 0
Computer Browser Browser Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Indexing Service CiSvc Stopped Disabled Share Process
c:\windows\system32\cisvc.exe Normal LocalSystem 0
ClipBook ClipSrv Stopped Disabled Own Process
c:\windows\system32\clipsrv.exe Normal LocalSystem 0
COM+ System Application COMSysApp Stopped Manual Own Process
c:\windows\system32\dllhost.exe /processid:{02d4b3f1-fd88-11d1-
960d-00805fc79235} Normal LocalSystem 0
Cryptographic Services CryptSvc Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Distributed File System Dfs Stopped Disabled Own Process
c:\windows\system32\dfssvc.exe Normal LocalSystem 0
DHCP Client Dhcp Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k networkservice Normal NT
AUTHORITY\NetworkService 0
Logical Disk Manager Administrative Service dmadm Stopped Manual Share
Process c:\windows\system32\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
Error Reporting Service ERSvc Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k winerr Ignore LocalSystem
0
Console Manager Network Connection Co-Installer ESCOINST
Stopped Manual Own Process c:\windows\system32\escoinst.dll
Normal LocalSystem 0

```

| | | | | | |
|--|---------------------|---------|-------------|--------------------------|---|
| Console Manager | ESCONMGR | Running | Auto | Own Process | |
| c:\windows\system32\esconmgr.exe | | Normal | LocalSystem | 0 | |
| Event Log | Eventlog | Running | Auto | Share Process | |
| c:\windows\system32\services.exe | | Normal | LocalSystem | 0 | |
| COM+ Event System | EventSystem | Running | Manual | Share Process | |
| c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | 0 | |
| Help and Support | helpsvc | Running | Manual | Share Process | |
| c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | 0 | |
| Human Interface Device Access | HidServ | Stopped | Disabled | Share Process | |
| c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | 0 | |
| HTTP SSL | HTTPFilter | Stopped | Manual | Share Process | |
| c:\windows\system32\lsass.exe | | Normal | LocalSystem | 0 | |
| IAS Jet Database Access | IASJet | Stopped | Manual | Share Process | |
| c:\windows\system32\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 | | | |
| mapservant | mapservant | Running | Auto | Own Process | |
| c:\windows\system32\mapservant.exe | | Normal | LocalSystem | 0 | |
| Messenger | Messenger | Stopped | Disabled | Share Process | |
| c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | 0 | |
| Distributed Transaction Coordinator | MSDTC | Stopped | Disabled | 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 | |
| MSSQLSERVER | MSSQLSERVER | Stopped | Manual | Own Process | c:\program files\microsoft sql server\mssql\binn\sqlservr.exe -smssqlserver |
| | | Normal | LocalSystem | 0 | |
| MSSQLServerADHelper | MSSQLServerADHelper | Stopped | Manual | Own Process | |
| c:\program files\microsoft sql server\80\tools\binn\sqladhlp.exe | | Normal | LocalSystem | 0 | |

| | | | | | |
|--|------------------|---------|-------------|---------------|--|
| Network DDE | NetDDE | Stopped | Disabled | Share Process | |
| c:\windows\system32\netdde.exe | | Normal | LocalSystem | 0 | |
| Network DDE DSDM | NetDDEdsdm | Stopped | Disabled | Share Process | |
| c:\windows\system32\netdde.exe | | Normal | LocalSystem | 0 | |
| Net Logon | Netlogon | Stopped | Manual | Share Process | |
| c:\windows\system32\lsass.exe | | Normal | LocalSystem | 0 | |
| Network Connections | Netman | Running | Manual | Share Process | |
| c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | 0 | |
| Network Location Awareness (NLA) | Nla | Running | Manual | Share Process | |
| c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | 0 | |
| File Replication | NtFrs | Stopped | Manual | Own Process | |
| c:\windows\system32\ntfrs.exe | | Ignore | LocalSystem | 0 | |
| NT LM Security Support Provider | NtLmSsp | 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 | 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 | Stopped | Disabled | Share Process | |
| c:\windows\system32\svchost.exe -k regsvc | | Normal | NT | | |
| AUTHORITY\LocalService | | 0 | | | |
| Remote Procedure Call (RPC) Locator | RpcLocator | Stopped | Manual | Own Process | |
| c:\windows\system32\locator.exe | | Normal | NT | | |
| AUTHORITY\NetworkService | | 0 | | | |
| Remote Procedure Call (RPC) | RpcSs | Running | Auto | Share Process | |
| c:\windows\system32\svchost.exe -k rpcss | | Normal | LocalSystem | 0 | |
| Resultant Set of Policy Provider | RSOPProv | Stopped | Manual | Share Process | |
| c:\windows\system32\rsopprov.exe | | Normal | LocalSystem | 0 | |
| Special Administration Console Helper | sacsrv | Stopped | Manual | Share Process | |
| c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | 0 | |
| Security Accounts Manager | SamSs | Running | Auto | Share Process | |
| c:\windows\system32\lsass.exe | | Normal | LocalSystem | 0 | |

```

Smart Card SCardSvr Stopped Manual Share Process
c:\windows\system32\scardsvr.exe Ignore NT
AUTHORITY\LocalService 0
Task Scheduler Schedule Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Secondary Logon seclogon Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Ignore LocalSystem
0
System Event Notification SENS Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
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

SQLSERVERAGENT SQLSERVERAGENT Stopped Manual Own Process c:\program
files\microsoft sql server\mssql\binn\sqlagent.exe -i mssqlserver Normal
LocalSystem 0
Windows Image Acquisition (WIA) stisvc Stopped Disabled Share
Process c:\windows\system32\svchost.exe -k imgsvc Normal NT
AUTHORITY\LocalService 0
Microsoft Software Shadow Copy Provider swprv Stopped Manual Own
Process c:\windows\system32\svchost.exe -k swprv Normal LocalSystem
0
Performance Logs and Alerts SysmonLog Stopped Manual Own Process
c:\windows\system32\smlogsvc.exe Normal NT
Authority\NetworkService 0
Telephony TapiSrv Stopped Manual Share Process
c:\windows\system32\svchost.exe -k tapisrv Normal LocalSystem
0
Terminal Services TermService Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k termsvcs Normal LocalSystem
0
Telnet TlntSvr Stopped Disabled Own Process
c:\windows\system32\tlntsvr.exe Normal NT
AUTHORITY\LocalService 0
Distributed Link Tracking Server TrkSvr Stopped Disabled Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Distributed Link Tracking Client TrkWks Stopped Disabled Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Terminal Services Session Directory Tssdis Stopped Disabled Own
Process c:\windows\system32\tssdis.exe Normal LocalSystem 0
Upload Manager uploadmgr Stopped Disabled 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 netsvcs Normal LocalSystem
0
WebClient WebClient Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k localservice Normal NT
AUTHORITY\LocalService 0
WinHTTP Web Proxy Auto-Discovery Service WinHttpAutoProxySvc
Stopped Manual Share Process c:\windows\system32\svchost.exe -k
localservice Normal NT AUTHORITY\LocalService 0
Windows Management Instrumentation winmgmt Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Ignore LocalSystem
0
Windows Management Instrumentation Driver Extensions Wmi Stopped Manual
Share Process c:\windows\system32\svchost.exe -k netsvcs Normal
LocalSystem 0
WMI Performance Adapter WmiApSrv Stopped Manual Own Process
c:\windows\system32\wbem\wmiapsrv.exe Normal LocalSystem 0

Automatic Updates wuauerv Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Wireless Configuration WZCSVC Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0

[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
Microsoft SQL Server All Users:Microsoft SQL Server All Users

Startup All Users:Startup All Users
Accessories NT AUTHORITY\SYSTEM:Accessories NT AUTHORITY\SYSTEM
Accessories\Accessibility NT
AUTHORITY\SYSTEM:Accessories\Accessibility NT AUTHORITY\SYSTEM
Accessories\Entertainment NT
AUTHORITY\SYSTEM:Accessories\Entertainment NT AUTHORITY\SYSTEM
Startup NT AUTHORITY\SYSTEM:Startup NT AUTHORITY\SYSTEM
Accessories MV-TPCC-Administrator:Accessories MV-TPCC-
CASSIN\Administrator

```

Accessories\Accessibility MV-TPCC-CASSIN\Administrator:Accessories\Accessibility MV-TPCC-CASSIN\Administrator
 Accessories\Entertainment MV-TPCC-CASSIN\Administrator:Accessories\Entertainment MV-TPCC-CASSIN\Administrator
 Administrative Tools MV-TPCC-CASSIN\Administrator:Administrative Tools MV-TPCC-CASSIN\Administrator
 QLogic Corporation MV-TPCC-CASSIN\Administrator:QLogic Corporation MV-TPCC-CASSIN\Administrator
 QLogic Corporation\SANblade Control VIX MV-TPCC-CASSIN\Administrator:QLogic Corporation\SANblade Control VIX MV-TPCC-CASSIN\Administrator
 Startup MV-TPCC-CASSIN\Administrator:Startup MV-TPCC-CASSIN\Administrator

[Startup Programs]

| Program Command | User Name | Location |
|---------------------|--|----------------|
| desktop desktop.ini | NT AUTHORITY\SYSTEM | Startup |
| desktop desktop.ini | MV-TPCC-CASSIN\Administrator | Startup |
| desktop desktop.ini | .DEFAULT | Startup |
| desktop desktop.ini | All Users | Common Startup |
| KernelFaultCheck | %systemroot%\system32\dumprep 0 -k | All Users |
| | HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run | |

[OLE Registration]

| Object | Local Server |
|------------------|---|
| Sound (OLE2) | sndrec32.exe |
| Media Clip | mplay32.exe |
| Video Clip | mplay32.exe /avi |
| MIDI Sequence | mplay32.exe /mid |
| Sound | Not Available |
| Media Clip | Not Available |
| WordPad Document | "%programfiles%\windows nt\accessories\wordpad.exe" |

Bitmap Image mspaint.exe

[Windows Error Reporting]

Time Type Details

[Internet Settings]

[Internet Explorer]

[Following are sub-categories of this main category]
 [Summary]

| Item | Value |
|------------------|------------------------------------|
| Version | 6.0.3790.0 |
| Build | 63790 |
| Application Path | C:\Program Files\Internet Explorer |
| Language | English (United States) |
| Active Printer | Not Available |

Cipher Strength 128-bit
 Content Advisor Disabled
 IEAK Install No

[File Versions]

| File | Version | Size | Date | Path | Company |
|---------------|----------------|---------------|----------------------|------------------------------------|-----------------------|
| actxprxy.dll | 6.0.3790.0 | 230 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| advpack.dll | 6.0.3790.0 | 240 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| asctrls.ocx | 6.0.3790.0 | 219 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| browseui.dll | 6.0.3790.0 | 62 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| browseui.dll | 6.0.3790.0 | 2,478 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| cdfview.dll | 6.0.3790.0 | 292 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| comctl32.dll | 5.82.3790.0 | 1,584 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| dxtrans.dll | 6.3.3790.0 | 562 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| dxtmsft.dll | 6.3.3790.0 | 918 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| iecont.dll | <File Missing> | Not Available | Not Available | Not Available | Not Available |
| iecontlc.dll | <File Missing> | Not Available | Not Available | Not Available | Not Available |
| iedkcs32.dll | 16.0.3790.0 | 676 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| iepeers.dll | 6.0.3790.0 | 652 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| iesetup.dll | 6.0.3790.0 | 89 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| ieunit.inf | Not Available | 20 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Not Available |
| ieexplore.exe | 6.0.3790.0 | 102 KB | 3/25/2003 4:00:00 AM | C:\Program Files\Internet Explorer | Microsoft Corporation |
| imgutil.dll | 5.2.3790.0 | 101 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| inetcpl.cpl | 6.0.3790.0 | 589 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| inetcplc.dll | 6.0.3790.0 | 108 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| inseng.dll | 6.0.3790.0 | 213 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| mlang.dll | 6.0.3790.0 | 799 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| msencode.dll | <File Missing> | Not Available | Not Available | Not Available | Not Available |
| mshta.exe | 6.0.3790.0 | 59 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| mshtml.dll | 6.0.3790.88 | 8,019 KB | 9/22/2003 3:10:36 PM | C:\WINDOWS\system32 | Microsoft Corporation |
| mshtml.tlb | 6.0.3790.0 | 1,319 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |
| mshtmlled.dll | 6.0.3790.0 | 1,376 KB | 3/25/2003 4:00:00 AM | C:\WINDOWS\system32 | Microsoft Corporation |

```

mshtml.dll 6.0.3790.0 56 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msident.dll 6.0.3790.0 128 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msidntld.dll 6.0.3790.0 14 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msieftp.dll 6.0.3790.0 536 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msrating.dll 6.0.3790.0 379 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mstime.dll 6.0.3790.0 1,621 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
occache.dll 6.0.3790.0 201 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
proctexe.ocx <File Missing> Not Available Not Available Not Available
Not Available
sendmail.dll 6.0.3790.0 97 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdoclc.dll 6.0.3790.0 588 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdocvw.dll 6.0.3790.85 3,281 KB 9/22/2003 3:10:36 PM
C:\WINDOWS\system32 Microsoft Corporation
shfolder.dll 6.0.3790.0 37 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shlwapi.dll 6.0.3790.0 722 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
tdc.ocx 1.3.0.3130 177 KB 3/25/2003 4:00:00 AM C:\WINDOWS\system32
Microsoft Corporation
url.dll 6.0.3790.0 45 KB 3/25/2003 4:00:00 AM C:\WINDOWS\system32
Microsoft Corporation
urlmon.dll 6.0.3790.87 1,242 KB 9/22/2003 3:10:36 PM
C:\WINDOWS\system32 Microsoft Corporation
webcheck.dll 6.0.3790.0 665 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
wininet.dll 6.0.3790.0 1,466 KB 3/25/2003 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation

```

[Connectivity]

```

Item Value
Connection Preference Never dial

```

LAN Settings

```

AutoConfigProxy Not Available
AutoProxyDetectMode Disabled
AutoConfigURL
Proxy Disabled
ProxyServer
ProxyOverride

```

[Cache]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Page Refresh Type Automatic

```

```

Temporary Internet Files Folder C:\Documents and
Settings\LocalService\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
Update Class Installed
http://v4.windowsupdate.microsoft.com/CAB/ia64/unicode/iuctl.CAB?3
7928.4661342593

```

[Content]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Content Advisor Disabled

```

[Personal Certificates]

```

Issued To Issued By Validity Signature Algorithm
No personal certificate information available

```

[Other People Certificates]

```

Issued To Issued By Validity Signature Algorithm
No other people certificate information available

```

[Publishers]

```

Name
No publisher information available

```

[Security]

```

Zone Security Level
My Computer Custom
Local intranet Medium-low
Trusted sites Low
Internet Medium
Restricted sites High

```

Windows Datacenter Server Registry Information

Software\Microsoft\MSSQLServer

Windows Registry Editor Version 5.00

| | |
|---|---|
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer] | 62,37,65,63,30,31,33,33,30,66,32,34,62,66,63,37,35,32,61,63,35,62,34,34,66, ,\ |
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client] "SharedMemoryOn"=dword:00000000 | 32,31,61,30,31,36,33,30,37,35,32,33,31,66,62,63,30,66,30,65,34,65,35,65,66, ,\ |
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\ConnectTo] "DSQUERY"="DBNETLIB" | 62,65,37,36,62,36,62,35,34,39,33,31,33,61,33,66,39,64,39,35,65,36,62,31,37, ,\ |
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\DB-Lib] | 32,65,37,64,66,35,38,31,36,37,37,38,61,63,35,63,62,37,33,35,64,34,34,64,32, ,\ |
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib] "ProtocolOrder"=hex(7):6e,00,70,00,00,00,74,00,63,00,70,00,00,00,00,00 "Encrypt"=dword:00000000 | 36,38,64,64,33,35,34,36,36,65,34,34,61,39,38,38,35,65,63,38,38,00 "RegisteredOwner"="" "SerialNumber"="" "Language"=dword:00000409 |
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib\Np] "DefaultPipe"="sql\query" | [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\Parameters] "SQLArg0"="-dC:\\Program Files\\Microsoft SQL Server\\MSSQL\\DATA\\master.mdf" "SQLArg1"="-eC:\\Program Files\\Microsoft SQL Server\\MSSQL\\LOG\\ERRORLOG" "SQLArg2"="-lC:\\Program Files\\Microsoft SQL Server\\MSSQL\\DATA\\mastlog.ldf" |
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib\Tcp] "DefaultPort"=dword:00000599 | [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocket NetLib] "ProtocolList"=hex(7):6e,00,70,00,00,00,76,00,69,00,61,00,00,00,00,00 "Encrypt"=dword:00000000 |
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib\Via] "RecognizedVendors"="QLogic" "Vendor"="QLogic" | [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocket NetLib\Np] "PipeName"="\\\\.\\pipe\\sql\\query" |
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer] "AuditLevel"=dword:00000000 "DefaultLogin"="guest" "ListenOn"=hex(7):53,00,53,00,4d,00,53,00,53,00,48,00,37,00,30,00,00,00,53, 00,\ 53,00,4e,00,45,00,54,00,4c,00,49,00,42,00,00,00,00,00 "LoginMode"=dword:00000002 "Map_"="\\" "Map#"=" -" "Map\$"="" "SetHostName"=dword:00000000 "Tapeloadwaittime"=dword:ffffffff "DefaultDomain"="MV-TPCC-CASSIN" "BackupDirectory"="C:\\Program Files\\Microsoft SQL Server\\MSSQL\\Backup" "SysDb"=dword:00000001 "uptime_pid"=dword:00000390 "uptime_time_utc"=hex:20,72,c8,e8,3d,b9,c3,01 "ResourceMgrID"="{905DCAFC-538B-456B-B5BD-4C504E2B391B}" | [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocket NetLib\Tcp] "TcpHideFlag"=dword:00000000 "TcpDynamicPorts"="" "TcpPort"="1433" [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocket NetLib\Via] "Vendor"="QLogic" "RecognizedVendors"="QLogic" "ListenInfo"="0:1421[0x00000003],1:1422[0x0000000c],2:1423[0x00000030],3:1 424[0x000000c0],4:1425[0x00000300],5:1426[0x00000c00],6:1427[0x00003000],7 :1428[0x0000c000]" |
| [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\CurrentVersion] "CurrentVersion"="8.00.760" "checksum"=hex:39,35,33,66,66,66,30,65,62,38,32,62,30,34,37,62,31,30,35,31, 36,\ | [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers] "AllowInProcess"=dword:00000001 |
| 38,32,31,30,30,63,62,39,63,65,38,36,39,30,39,64,66,38,63,64,32,65,32,37,34, ,\ | [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\ADSDSOObject] "AllowInProcess"=dword:00000001 |
| 37,65,33,64,32,66,63,64,37,39,31,30,61,34,39,38,32,66,65,31,64,30,32,33,61, ,\ | [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\DB2OLEDB] "AllowInProcess"=dword:00000001 |
| | [HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\Microsoft.Jet .OLEDB.4.0] |

```

"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSDAORA]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSDASQL]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSIDXS]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSQLImpProv]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSSEARCHSQL]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\SQLOLEDB]
"AllowInProcess"=dword:00000001
"DisallowAdhocAccess"=dword:00000000

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Replication]
"IsInstalled"=dword:00000001
"DistributionDB"=""
"WorkingDirectory"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\REPLDATA"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Setup]
"EnableErrorReporting"=dword:00000000
"Collation"="Latin1_General_BIN"
"FeatureName"="SQL_Engine"
"FirstStart"=dword:00000000
"ProductCode"="{68FAF410-A484-4F25-945C-A3158FEED594}"
"SQLDataRoot"="C:\\Program Files\\Microsoft SQL Server\\MSSQL"
"SQLPath"="C:\\Program Files\\Microsoft SQL Server\\MSSQL"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\SQLServerAgent]
"JobHistoryMaxRowsPerJob"=dword:00000064
"DownloadedMaxRows"=dword:00000064
"ErrorLogFile"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\LOG\\SQLAGENT.OUT"
"ErrorLoggingLevel"=dword:00000003
"JobHistoryMaxRows"=dword:000003e8
"MSXServerName"=""
"NonAlertableErrors"="1204,4002"
"RestartServer"=dword:00000001
"ServerHost"=""
"WorkingDirectory"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\JOBS\\"
"SysAdminOnly"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\SQLServerAgent\SubSystem]
"ActiveScripting"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\Binn\\sqlatxss.DLL,NULL,ActiveScriptStart,ActiveScriptEvent
,ActiveScriptStop,10"
"CmdExec"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\Binn\\sqlcmdss.DLL,NULL,CmdExecStart,CmdEvent,CmdExecStop,1
0"

```

```

"Distribution"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\Binn\\sqlrepss.DLL,C:\\Program Files\\Microsoft SQL
Server\\80\\COM\\DISTRIB.EXE,ReplStart,ReplEvent,ReplStop,100"
"Merge"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\Binn\\sqlrepss.DLL,C:\\Program Files\\Microsoft SQL
Server\\80\\COM\\REPLMERG.EXE,ReplStart,ReplEvent,ReplStop,100"
"Snapshot"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\Binn\\sqlrepss.DLL,C:\\Program Files\\Microsoft SQL
Server\\80\\COM\\SNAPSHOT.EXE,ReplStart,ReplEvent,ReplStop,100"
"LogReader"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\Binn\\sqlrepss.dll,C:\\Program Files\\Microsoft SQL
Server\\80\\COM\\logread.exe,ReplStart,ReplEvent,ReplStop,25"
"QueueReader"="C:\\Program Files\\Microsoft SQL
Server\\MSSQL\\Binn\\sqlrepss.dll,C:\\Program Files\\Microsoft SQL
Server\\80\\COM\\qrdsv.exe,ReplStart,ReplEvent,ReplStop,100"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\SQLServerSCP]

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Tracking]
"{E07FDDAD-5A21-11d2-9DAD-00C04F79D434}"=""
"{6DC86044-0C71-11d3-9E18-00C04F79D434}"=""
"{E07FDDA4-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDA6-5A21-11d2-9DAD-00C04F79D434}"=""

```

Software\Microsoft\Microsoft SQL Server

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```

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server]
"SsrpActiveServer"=""
"InstalledInstances"=hex(7):4d,00,53,00,53,00,51,00,4c,00,53,00,45,00,52,0
0,56,\
00,45,00,52,00,00,00,00,00
"SqlMdacRegRefCount"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\80]
"SharedCode"="C:\\Program Files\\Microsoft SQL Server\\80\\Shared\\"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\80\Bootstrap]
"BootstrapDir"="C:\\Program Files\\Microsoft SQL Server\\80\\Setup
Bootstrap\\"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\MSSQLLicenseInfo]

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\MSSQLLicenseInfo\MSSQL8.00]
"DisplayName"="SQL Server 2000"
"FlipAllow"=dword:00000000
"ConcurrentLimit"=dword:00000010
"Mode"=dword:00000002
"FamilyDisplayName"="Microsoft SQL Server"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Registration]

```

```

"ProductID"="53934-000-0000095-05441"
"DigitalProductID"=hex:a4,00,00,00,03,00,00,00,35,33,39,33,34,2d,30,30,30,
2d,\
30,30,30,30,39,35,2d,30,35,34,34,31,00,0a,00,00,00,38,31,30,2d,30,30,35
,\
36,30,00,00,00,00,00,00,12,00,00,00,00,a6,0a,0f,5e,9d,9e,ef,0d,05,00,00
,\
00,00,00,00,16,78,a5,3f,0a,42,0e,00,00,00,00,00,00,00,00,00,00,00,00,00
,\
00,00,00,00,00,00,00,00,00,00,31,38,30,31,30,00,00,00,00,00,00,89,0b
,\
00,00,83,c4,71,c0,f8,7f,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00
,\
00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,00,75,9a,0c,21

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication]

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication\ArticleResolver]
"Microsoft SQL Server Additive Conflict Resolver"="{08B0B2DB-3FB3-11D3-
A4DE-00C04F610189}"
"Microsoft SQLServer Stored Procedure Resolver"="{08B0B2D6-3FB3-11D3-A4DE-
00C04F610189}"
"Microsoft SQL Server Averaging Conflict Resolver"="{08B0B2DC-3FB3-11D3-
A4DE-00C04F610189}"
"Microsoft SQL Server Download Only Conflict Resolver"="{08B0B2DD-3FB3-
11D3-A4DE-00C04F610189}"
"Microsoft SQL Server Maximum Conflict Resolver"="{08B0B2DE-3FB3-11D3-
A4DE-00C04F610189}"
"Microsoft SQL Server DATETIME (Later Wins) Conflict Resolver"="{08B0B2DE-
3FB3-11D3-A4DE-00C04F610189}"
"Microsoft SQL Server Priority Column Resolver"="{08B0B2DE-3FB3-11D3-A4DE-
00C04F610189}"
"Microsoft SQL Server Minimum Conflict Resolver"="{08B0B2DF-3FB3-11D3-
A4DE-00C04F610189}"
"Microsoft SQL Server DATETIME (Earlier Wins) Conflict
Resolver"="{08B0B2DF-3FB3-11D3-A4DE-00C04F610189}"
"Microsoft SQL Server Subscriber Always Wins Conflict
Resolver"="{08B0B2E0-3FB3-11D3-A4DE-00C04F610189}"
"Microsoft SQL Server Upload Only Conflict Resolver"="{08B0B2E2-3FB3-11D3-
A4DE-00C04F610189}"
"Microsoft SQL Server Merge Text Columns Conflict Resolver"="{08B0B2E1-
3FB3-11D3-A4DE-00C04F610189}"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication\DatabaseReconciler]

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication\DatabaseReconciler\MSSQLServer]
@="{2FAD19D0-E309-11D2-B6E5-00C04F688E8F}"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication\MergeReplicationProvider]

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication\MergeReplicationProvider\MSSQLServer]
@="{61D7366E-E306-11D2-B6E5-00C04F688E8F}"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Replication\MergeReplicationProvider\ProxyMergeDatasource]
@="{EF43EC5A-7699-11D3-AE49-00C04F688E96}"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\80\Tools]

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Tools\ClientSetup]
"SQLPath"="C:\Program Files\Microsoft SQL Server\80\Tools"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Tools\ClientSetup\CurrentVersion]
"CurrentVersion"=""

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Tools\Service Manager]
"Action Verify"=dword:00000000
"Default"="MSSQLSERVER"
"Remote"=dword:00000001
"Services"=hex(7):3b,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Tools\Shortcut]

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Tools\Shortcut\Server Network Utility]
"1033"=""

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Tools\Shortcut\Service Manager]
"1033"=""

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\80\Tools\Shortcut\Service Manager Start]
"1033"=""

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Component Set]
"Bootstrap"="1"
"InstanceComponentSet.1"="{68FAF410-A484-4F25-945C-A3158FEED594}"
"OLAPInstance"="{68FAF410-A484-4F25-945C-A3158FEED594}"

CurrentControlSet\ Control\Session Manager\I/O System

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[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\I/O
System]
"CountOperations"=dword:00000000

```

CurrentControlSet\Services\Ibfa

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```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ibfa]
"Type"=dword:00000001
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"Tag"=dword:00000004
"ImagePath"=hex(2):73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,44,00,\
```

```
52,00,49,00,56,00,45,00,52,00,53,00,5c,00,69,00,66,00,62,00,61,00,2e,00,73,\
,00,79,00,73,00,00
"DisplayName"="Unisys Intelligent Fibre Channel Adapter SCSI Processor"
"Group"="SCSI Class"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ibfa\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00,02,\
```

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

```
00,00,02,00,60,00,04,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00,\
```

```
05,12,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,05,20,00,00,00,\
```

```
20,02,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,05,0b,00,00,00,00,\
```

```
00,18,00,fd,01,02,00,01,02,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01,\
,00,00,00,00,05,12,00,00,01,01,00,00,00,00,05,12,00,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ibfa\Enum]
```

```
"0"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&551906a&0&5406560B00080010"
"Count"=dword:0000000e
"NextInstance"=dword:0000000e
"1"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&551906a&0&5506560B00080010"
"2"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&4ae7be2&0&FC04560B00080010"
"3"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&4ae7be2&0&FD04560B00080010"
"4"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&438d028&0&B004560B00080010"
"5"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&438d028&0&B104560B00080010"
"6"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&1e5eedf&0&7008560B00080010"
```

```
"7"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&1e5eedf&0&7108560B00080010"
"8"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&16f5999&0&2409560B00080010"
"9"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&16f5999&0&2509560B00080010"
"10"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&19917b97&0&9C04560B00080010"
"11"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&19917b97&0&9D04560B00080010"
"12"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&52e9464&0&E804560B00080010"
"13"="SCSI\\ProcessorUNISYS_FC76222-
P64_____v2_\\6&52e9464&0&E904560B00080010"
```

CurrentControlSet\Services\Ifdisk

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

```
"Type"=dword:00000001
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,44,00,\
```

```
52,00,49,00,56,00,45,00,52,00,53,00,5c,00,69,00,66,00,64,00,69,00,73,00,6b,\
,00,2e,00,73,00,79,00,73,00,00,00
"DisplayName"="Unisys Intelligent Fibre Channel Fabric Disk Driver"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifdisk\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00,02,\
```

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

```
00,00,02,00,60,00,04,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00,\
```

```
05,12,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,05,20,00,00,00,\
```

```
20,02,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,05,0b,00,00,00,00,\
```

```
00,18,00,fd,01,02,00,01,02,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01,\
,00,00,00,00,05,12,00,00,01,01,00,00,00,00,05,12,00,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifdisk\Enum]
"0"="SCSI\\Disk&Ven UNISYS_VirtualStorage_01.00\\1&79f5d87&0&1D4000861000
0010000000000000A000"
"Count"=dword:00000070
"NextInstance"=dword:00000070
```



```

>ErrorControl"=dword:00000001
"Tag"=dword:00000006
"ImagePath"=hex(2):73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,4
4,00,\
52,00,49,00,56,00,45,00,52,00,53,00,5c,00,49,00,66,00,49,00,70,00,2e,00,73
,\
00,79,00,73,00,00,00
"DisplayName"="Unisys Intelligent Fibre Channel Fabric Bus Enumerator"
"Group"="Boot Bus Extender"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00
,02,\
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00
,\
00,00,02,00,60,00,04,00,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00
,\
05,12,00,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,00,05,20,00,00,00
,\
20,02,00,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,00,05,0b,00,00,00,00
,\
00,18,00,fd,01,02,00,01,02,00,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01
,\
00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp\Enum]
"0"="Root\SYSTEM\0001"
"Count"=dword:00000001
"NextInstance"=dword:00000001

```

CurrentControlSet\Services\ifxp

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```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp]
"Type"=dword:00000001
"Start"=dword:00000000
"ErrorControl"=dword:00000001
"Tag"=dword:00000021
"ImagePath"=hex(2):73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,4
4,00,\
52,00,49,00,56,00,45,00,52,00,53,00,5c,00,69,00,66,00,78,00,70,00,2e,00,73
,\
00,79,00,73,00,00,00
"DisplayName"="Unisys Intelligent Fibre Channel Fabric Bus Adapter"
"Group"="SCSI Miniport"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Parameters]

```

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Parameters\PnpI
nterface]
"5"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00
,02,\
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00
,\
00,00,02,00,60,00,04,00,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00
,\
05,12,00,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,00,05,20,00,00,00
,\
20,02,00,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,00,05,0b,00,00,00,00
,\
00,18,00,fd,01,02,00,01,02,00,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01
,\
00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Enum]
"0"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&32153288&0&0008E8"
"Count"=dword:00000007
"NextInstance"=dword:00000007
"1"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&10b868fb&0&0008F8"
"2"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&3247c854&0&0008E8"
"3"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&2b2cc0e6&0&0008F8"
"4"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&1bb54966&0&0008E8"
"5"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&1708e18a&0&0008F8"
"6"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&1cee6a2&0&0010E8"

```

CurrentControlSet\Services\MSSQLSERVER

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```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):43,00,3a,00,5c,00,50,00,72,00,6f,00,67,00,72,00,61,00,6
d,00,\
20,00,46,00,69,00,6c,00,65,00,73,00,5c,00,4d,00,69,00,63,00,72,00,6f,00,73
,\
00,6f,00,66,00,74,00,20,00,53,00,51,00,4c,00,20,00,53,00,65,00,72,00,76,00
,\
65,00,72,00,5c,00,4d,00,53,00,53,00,51,00,4c,00,5c,00,42,00,69,00,6e,00,6e
,\

```

```

00,5c,00,73,00,71,00,6c,00,73,00,65,00,72,00,76,00,72,00,2e,00,65,00,78,00
,\
65,00,20,00,2d,00,73,00,4d,00,53,00,53,00,51,00,4c,00,53,00,45,00,52,00,56
,\
  00,45,00,52,00,00,00
"DisplayName"="MSSQLSERVER"
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Linkage]
"Export"=hex(7):4d,00,53,00,53,00,51,00,4c,00,53,00,45,00,52,00,56,00,45,0
0,52,\
  00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Performa
nce]
"Library"="C:\\PROGRA~1\\MICROS~1\\MSSQL\\Binn\\sqlctr80.dll"
"Open"="OpenSQLPerformanceData"
"Close"="CloseSQLPerformanceData"
"Collect"="CollectSQLPerformanceData"
"PerfIniFile"="sqlctr.ini"
"Last Counter"=dword:000009e6
"Last Help"=dword:000009e7
"First Counter"=dword:000008d2
"First Help"=dword:000008d3
"WbemAdapFileSignature"=hex:87,33,0d,d8,7d,78,fe,97,f8,64,31,9f,65,33,d0,c
7
"WbemAdapFileTime"=hex:00,f5,3d,a0,6c,ce,c2,01
"WbemAdapFileSize"=dword:00007e00
"WbemAdapStatus"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Security
]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00
,02,\
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00
,\
00,00,02,00,60,00,04,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00
,\
05,12,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,05,20,00,00,00
,\
20,02,00,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,05,0b,00,00,00,00
,\
00,18,00,fd,01,02,00,01,02,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01
,\
  00,00,00,00,05,12,00,00,01,01,00,00,00,00,05,12,00,00,00

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

```

CurrentControlSet\Services\PartMgr

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```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PartMgr]
"DisplayName"="Partition Manager"
"ErrorControl"=dword:00000001
"Group"="System Bus Extender"
"Start"=dword:00000000
"Tag"=dword:00000005
"Type"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PartMgr\Enum]
"0"="Root\\LEGACY_PARTMGR\\0000"
"Count"=dword:00000072
"NextInstance"=dword:00000072
"1"="SCSI\\Disk&Ven_MEGARAID&Prod_LD_0_MEGARAID&Rev_\\5&70f355a&0&300"
"2"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D4000861000
00100000000000000A000"
"3"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D4000861000
001000000000000009000"
"4"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D4000861000
001000000000000008000"
"5"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D4000861000
001000000000000007000"
"6"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D4000861000
001000000000000006000"
"7"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D4000861000
001000000000000005000"
"8"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D4000861000
001000000000000004000"
"9"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D4000861000
001000000000000003000"
"10"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D400086100
001000000000000002000"
"11"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&1D400086100
000100000000000001000"
"12"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000000A000"
"13"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000009000"
"14"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000008000"
"15"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000007000"
"16"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000006000"
"17"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000005000"
"18"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000004000"
"19"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000003000"
"20"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000002000"
"21"="SCSI\\Disk&Ven_UNISYS__VirtualStorage__01.0\\1&79f5d87&0&A53F0086100
000100000000000001000"

```



```

"80"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&DD3F0086100001000000000000002000"
"81"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&DD3F0086100001000000000000001000"
"82"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000000A000"
"83"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000009000"
"84"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&3540008610000100000000000000A000"
"85"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&35400086100001000000000000009000"
"86"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&35400086100001000000000000008000"
"87"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&35400086100001000000000000007000"
"88"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&35400086100001000000000000006000"
"89"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&35400086100001000000000000005000"
"90"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&35400086100001000000000000004000"
"91"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&35400086100001000000000000003000"
"92"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&35400086100001000000000000002000"
"93"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&35400086100001000000000000001000"
"94"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000008000"
"95"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000007000"
"96"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000006000"
"97"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000005000"
"98"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000004000"
"99"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000003000"
"100"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000002000"
"101"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&09400086100001000000000000001000"
"102"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F008610000100000000000000A000"
"103"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F0086100001000000000000009000"
"104"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F0086100001000000000000008000"
"105"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F0086100001000000000000007000"
"106"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F0086100001000000000000006000"
"107"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F0086100001000000000000005000"
"108"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F0086100001000000000000004000"

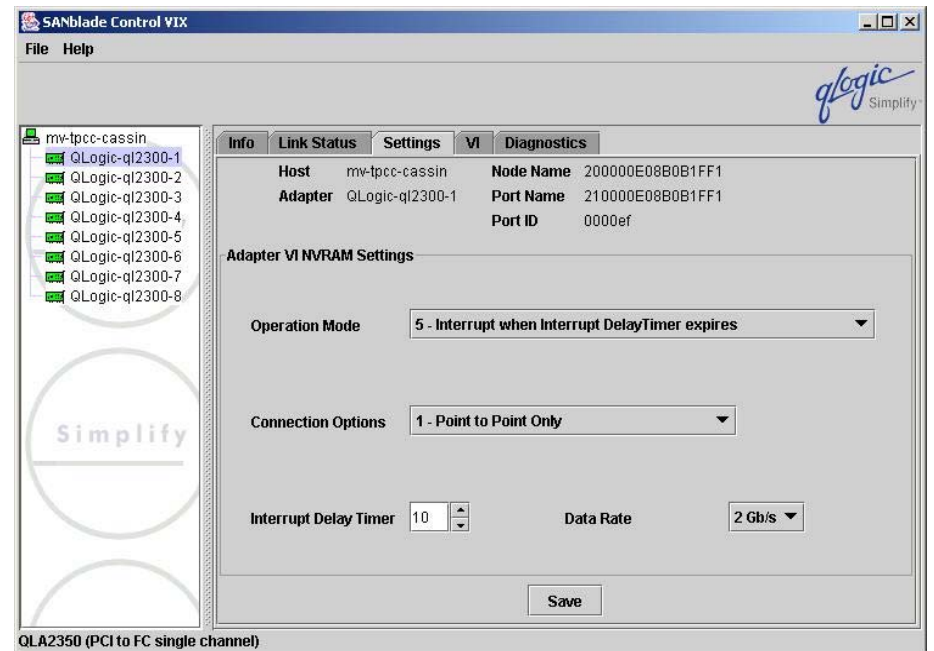
```

```

"109"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F0086100001000000000000003000"
"110"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F0086100001000000000000002000"
"111"="SCSI\\Disk&Ven_UNISYS_VirtualStorage__01.0\\1&79f5d87&0&9B3F0086100001000000000000001000"
"112"="SCSI\\Disk&Ven_DGC_____RAID_10_____0099\\1&79f5d87&0&A72420106001065000000000000001000"
"113"="SCSI\\Disk&Ven_DGC_____RAID_10_____0099\\1&79f5d87&0&A72420106001065000000000000000000"

```

QLA2350 Configuration Settings



CurrentControlSet\Services\QL2300

```
\registry\machine\system\currentcontrolset\services\ql2300
ErrorControl = REG_DWORD 0x00000001
Group = SCSI miniport
Start = REG_DWORD 0x00000000
Tag = REG_DWORD 0x00000028
Type = REG_DWORD 0x00000001
ImagePath = REG_EXPAND_SZ system32\DRIVERS\ql2300.sys
Parameters
  Device
    DriverParameters = UseSameNN=0
    MaximumSGList = REG_DWORD 0x00000021
    NumberOfRequests = REG_DWORD 0x00000096
  PnpInterface
    5 = REG_DWORD 0x00000001
Enum
  0 = PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\3&1070020&0&30
Count = REG_DWORD 0x00000001
NextInstance = REG_DWORD 0x00000001
```

CurrentControlSet\Services\qlvika

```
\registry\machine\system\currentcontrolset\services\qlvika
start = REG_DWORD 0x00000002
type = REG_DWORD 0x00000001
Tag = REG_DWORD 0x00000001
group = MVIA
ErrorControl = REG_DWORD 0x00000001
Adapters
  210000E08B09285A
    IPAddress = REG_MULTI_SZ "192.1.1.24"
    VIDeviceNumber = REG_DWORD 0x00000000
  210000E08B09295A
    IPAddress = REG_MULTI_SZ "10.1.1.8"
    VIDeviceNumber = REG_DWORD 0x00000000
Parameters
  SendDescQuota = REG_DWORD 0x00000008
  RecvDescQuota = REG_DWORD 0x00000008
  MaxRegisterMBytes = REG_DWORD 0x00000200
  MaxCQs = REG_DWORD 0x00000400
  MaxPTags = REG_DWORD 0x00000800
  MaxRegisterRegions = REG_DWORD 0x00002000
  MaxCQEntries = REG_DWORD 0x00002000
  MaxRegisterRdmaMBytes = REG_DWORD 0x00000200
  MaxTransferSize = REG_DWORD 0x00010000
  MaxVIs = REG_DWORD 0x00000400
  HostFile = REG_MULTI_SZ "C:\WINDOWS\system32\drivers\etc\vihosts"
Enum
  0 = Root\LEGACY_QLVIKA\0000
Count = REG_DWORD 0x00000001
NextInstance = REG_DWORD 0x00000001
```

Windows 2003 Server Client Configuration Information

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

System Information report written at: 12/02/03 17:56:21

System Name: CLIENT8
[System Summary]

| Item | Value |
|---------------------|---|
| OS Name | Microsoft(R) Windows(R) Server 2003, Standard Edition |
| Version | 5.2.3790 Build 3790 |
| OS Manufacturer | Microsoft Corporation |
| System Name | CLIENT8 |
| System Manufacturer | UNISYS Corp. |
| System Model | ES3020L |
| System Type | X86-based PC |
| Processor | x86 Family 15 Model 2 Stepping 9 GenuineIntel ~2388 Mhz |
| Processor | x86 Family 15 Model 2 Stepping 9 GenuineIntel ~2388 Mhz |
| Processor | x86 Family 15 Model 2 Stepping 9 GenuineIntel ~2388 Mhz |
| Processor | x86 Family 15 Model 2 Stepping 9 GenuineIntel ~2388 Mhz |

| | |
|----------------------------|--|
| BIOS Version/Date | Dell Computer Corporation A10, 5/21/2003 |
| SMBIOS Version | 2.3 |
| Windows Directory | C:\WINDOWS |
| System Directory | C:\WINDOWS\system32 |
| Boot Device | \Device\HarddiskVolume1 |
| Locale | United States |
| Hardware Abstraction Layer | Version = "5.2.3790.0 (srv03_rtm.030324-2048)" |
| User Name | CLIENT8\Administrator |
| Time Zone | Pacific Standard Time |
| Total Physical Memory | 1,024.00 MB |
| Available Physical Memory | 824.81 MB |
| Total Virtual Memory | 3.91 GB |
| Available Virtual Memory | 3.61 GB |
| Page File Space | 2.91 GB |
| Page File | C:\pagefile.sys |

[Hardware Resources]

[Conflicts/Sharing]

| Resource | Device |
|--------------------------------|---------------------------------|
| I/O Port 0x0000A000-0x0000AFFF | PCI bus |
| I/O Port 0x0000A000-0x0000AFFF | PCI standard PCI-to-PCI bridge |
| I/O Port 0x00000000-0x000003AF | PCI bus |
| I/O Port 0x00000000-0x000003AF | Direct memory access controller |

IRQ 10 PCI Device

```

IRQ 10 ServerWorks (RCC) PCI to USB Open Host Controller
Memory Address 0xFD000000-0xFEBFFFFFF PCI bus
Memory Address 0xFD000000-0xFEBFFFFFF RAGE XL PCI Family (Microsoft
Corporation)

Memory Address 0xA0000-0xBFFFF PCI bus
Memory Address 0xA0000-0xBFFFF RAGE XL PCI Family (Microsoft
Corporation)

I/O Port 0x000003B0-0x000003DF PCI bus
I/O Port 0x000003B0-0x000003DF RAGE XL PCI Family (Microsoft
Corporation)

[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
0x00000000-0x000003AF PCI bus OK
0x00000000-0x000003AF Direct memory access controller OK
0x000003B0-0x000003DF PCI bus OK
0x000003B0-0x000003DF RAGE XL PCI Family (Microsoft Corporation) OK

0x000003E0-0x00000CF7 PCI bus OK
0x00000D00-0x00000FFF PCI bus OK
0x00000E00-0x00000FFF PCI bus OK
0x00000ECF8-0x00000ECFF PCI Device OK
0x00000ECE8-0x00000ECFF PCI Device OK
0x00000EC80-0x00000ECBF PCI Device OK
0x00000ECF4-0x00000ECF7 PCI Device OK
0x00000E800-0x00000E8FF RAGE XL PCI Family (Microsoft Corporation) OK

0x000003C0-0x000003DF RAGE XL PCI Family (Microsoft Corporation) OK

0x00000080-0x0000009F Direct memory access controller OK
0x000000C0-0x000000DF Direct memory access controller OK
0x0000040B-0x0000040B Direct memory access controller OK
0x000004D6-0x000004D6 Direct memory access controller OK
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
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
0x000002F8-0x000002FF Communications Port (COM2) OK
0x00000070-0x0000007F System CMOS/real time clock OK
0x00000800-0x0000089F System board OK
0x000008A0-0x000008AF System board OK
0x00000C00-0x00000CD7 System board OK
0x00000F50-0x00000F58 System board OK
0x000008E0-0x000008E3 System board OK
0x000000E0-0x000000EF System board OK
0x000008B0-0x000008BF CSB5 IDE Controller OK
0x000001F0-0x000001F7 Primary IDE Channel OK
0x000003F6-0x000003F6 Primary IDE Channel OK
0x00000170-0x00000177 Secondary IDE Channel OK
0x00000376-0x00000376 Secondary IDE Channel OK
0x00000A79-0x00000A79 ISAPNP Read Data Port OK
0x00000279-0x00000279 ISAPNP Read Data Port OK
0x00000274-0x00000277 ISAPNP Read Data Port OK
0x0000A000-0x0000AFFF PCI bus OK
0x0000A000-0x0000AFFF PCI standard PCI-to-PCI bridge OK
0x0000AC00-0x0000ACFF Adaptec AIC-7899 Ultra160 PCI SCSI Card OK

0x0000A800-0x0000A8FF Adaptec AIC-7899 Ultra160 PCI SCSI Card OK

0x0000C000-0x0000CFFF PCI bus OK
0x0000D000-0x0000DFFF PCI bus OK
0x0000DC00-0x0000DCFF QLogic QLA23xx PCI Fibre Channel Adapter OK

[IRQs]

Resource Device Status
IRQ 9 Microsoft ACPI-Compliant System OK
IRQ 11 PCI Device OK
IRQ 10 PCI Device OK
IRQ 10 ServerWorks (RCC) PCI to USB Open Host Controller OK
IRQ 7 PCI Device OK
IRQ 13 Numeric data processor 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 3 Communications Port (COM2) OK
IRQ 8 System CMOS/real time clock OK
IRQ 14 Primary IDE Channel OK
IRQ 30 Adaptec AIC-7899 Ultra160 PCI SCSI Card OK
IRQ 31 Adaptec AIC-7899 Ultra160 PCI SCSI Card OK
IRQ 28 Broadcom NetXtreme Gigabit Ethernet #3 OK
IRQ 29 Broadcom NetXtreme Gigabit Ethernet #4 OK
IRQ 16 QLogic QLA23xx PCI Fibre Channel Adapter OK

[Memory]

Resource Device Status
0xA0000-0xBFFFF PCI bus OK

```

0xA0000-0xBFFFF RAGE XL PCI Family (Microsoft Corporation) OK
 0xD0000-0xE7FFF PCI bus OK
 0xFD000000-0xFEBFFFFFF PCI bus OK
 0xFD000000-0xFEBFFFFFF RAGE XL PCI Family (Microsoft Corporation) OK
 0xFEB80000-0xFEB80FFF PCI Device OK
 0xFE102000-0xFE102FFF PCI Device OK
 0xFEB00000-0xFEB7FFFF PCI Device OK
 0xFE101000-0xFE101FFF RAGE XL PCI Family (Microsoft Corporation) OK
 0xFE100000-0xFE100FFF ServerWorks (RCC) PCI to USB Open Host Controller OK
 0xFB000000-0xFCBFFFFFF PCI bus OK
 0xFCA00000-0xFCBFFFFFF PCI standard PCI-to-PCI bridge OK
 0xFCAFF000-0xFCAFFFFFF Adaptec AIC-7899 Ultra160 PCI SCSI Card OK
 0xFCAFE000-0xFCAFEFFF Adaptec AIC-7899 Ultra160 PCI SCSI Card OK
 0xFCC00000-0xFCDFFFF PCI bus OK
 0xFCD10000-0xFCD1FFFF Broadcom NetXtreme Gigabit Ethernet #3 OK
 0xFCD00000-0xFCD0FFFF Broadcom NetXtreme Gigabit Ethernet #4 OK
 0xFCE00000-0xFCFFFFFF PCI bus OK
 0xFCF00000-0xFCF0FFFF QLogic QLA23xx PCI Fibre Channel Adapter OK

[Components]

[Multimedia]

[Audio Codecs]

| CODEC | Manufacturer | Description | Status | File | Version | Size |
|----------------------------------|---|-----------------------------------|--------|----------------------------------|------------------------------------|---------------------------|
| c:\windows\system32\tssoft32.acm | DSP GROUP, INC. | | OK | C:\WINDOWS\system32\tssoft32.acm | 1.01 | 9.50 KB (9,728 bytes) |
| 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) |
| 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) |
| 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) |
| 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) |
| 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) |

c:\windows\system32\msg723.acm Microsoft Corporation OK
 C:\WINDOWS\system32\MSG723.ACM 4.4.4000 116.00 KB
 (118,784 bytes) 7/16/2003 3:50 PM
 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
 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

[Video Codecs]

| CODEC | Manufacturer | Description | Status | File | Version | Size |
|----------------------------------|-----------------------|-------------|--------|----------------------------------|------------------------------------|---------------------------|
| 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) |
| c:\windows\system32\msh261.drv | Microsoft Corporation | | OK | C:\WINDOWS\system32\MSH261.DRV | 4.4.4000 | 180.00 KB (184,320 bytes) |
| 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) |
| c:\windows\system32\iyuv_32.dll | Microsoft Corporation | | OK | C:\WINDOWS\system32\IYUV_32.DLL | 5.2.3790.0 (srv03_rtm.030324-2048) | 45.00 KB (46,080 bytes) |
| 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) |
| 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) |
| c:\windows\system32\msh263.drv | Microsoft Corporation | | OK | C:\WINDOWS\system32\MSH263.DRV | 4.4.4000 | 284.00 KB (290,816 bytes) |

[CD-ROM]

| Item | Value |
|----------------|---|
| Drive D: | |
| Description | CD-ROM Drive |
| Media Loaded | No |
| Media Type | CD-ROM |
| Name | TEAC CD-224E |
| Manufacturer | (Standard CD-ROM drives) |
| Status | OK |
| Transfer Rate | Not Available |
| SCSI Target ID | 0 |
| PNP Device ID | IDE\CDROMTEAC_CD-224E |
| Driver | c:\windows\system32\drivers\cdrom.sys (5.2.3790.0 (srv03_rtm.030324-2048), 49.50 KB (50,688 bytes), 3/25/2003 11:00 AM) |

[Sound Device]

| Item | Value |
|------|-------|
| | |

[Display]

Item Value
Name RAGE XL PCI Family (Microsoft Corporation)
PNP Device ID
PCI\VEN_1002&DEV_4752&SUBSYS_01211028&REV_27\3&13C0B0C5&0&70

Adapter Type ATI RAGE XL PCI (B41), ATI Technologies Inc. compatible

Adapter Description RAGE XL PCI Family (Microsoft Corporation)
Adapter RAM 8.00 MB (8,388,608 bytes)
Installed Drivers ati2drad.dll
Driver Version 5.10.3663.6013
INF File atiixpad.inf (ati2mpad section)
Color Planes 1
Color Table Entries 4294967296
Resolution 800 x 600 x 75 hertz
Bits/Pixel 32
Memory Address 0xFD000000-0xFEBFFFFFF
I/O Port 0x0000E800-0x0000E8FF
Memory Address 0xFE101000-0xFE101FFF
I/O Port 0x000003B0-0x000003DF
I/O Port 0x000003C0-0x000003DF
Memory Address 0xA0000-0xBFFFF
Driver c:\windows\system32\drivers\ati2mpad.sys (5.10.3663.6013, 335.38 KB (343,424 bytes), 7/16/2003 8:39 AM)

[Infrared]

Item Value

[Input]

[Keyboard]

Item Value
Description Standard 101/102-Key or Microsoft Natural PS/2 Keyboard

Name Enhanced (101- or 102-key)
Layout 00000409
PNP Device ID ACPI\PNP0303\4&25F73A82&0
Number of Function Keys 12
I/O Port 0x00000060-0x00000060
I/O Port 0x00000064-0x00000064
IRQ Channel IRQ 1
Driver c:\windows\system32\drivers\i8042prt.sys (5.2.3790.0 (srv03_rtm.030324-2048), 68.50 KB (70,144 bytes), 3/25/2003 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&25F73A82&0
Power Management Supported No
Double Click Threshold 6

Handedness Right Handed Operation
IRQ Channel IRQ 12
Driver c:\windows\system32\drivers\i8042prt.sys (5.2.3790.0 (srv03_rtm.030324-2048), 68.50 KB (70,144 bytes), 3/25/2003 11:00 AM)

[Modem]

Item Value

[Network]

[Adapter]

Item Value
Name [00000001] Broadcom NetXtreme Gigabit Ethernet
Adapter Type Not Available
Product Type Broadcom NetXtreme Gigabit Ethernet
Installed Yes
PNP Device ID Not Available
Last Reset 12/2/2003 11:52 AM
Index 1
Service Name b57w2k
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] Broadcom NetXtreme Gigabit Ethernet
Adapter Type Not Available
Product Type Broadcom NetXtreme Gigabit Ethernet
Installed Yes
PNP Device ID Not Available
Last Reset 12/2/2003 11:52 AM
Index 2
Service Name b57w2k
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000003] RAS Async Adapter
Adapter Type Not Available
Product Type RAS Async Adapter
Installed Yes
PNP Device ID Not Available
Last Reset 12/2/2003 11:52 AM
Index 3
Service Name AsyncMac

IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000004] WAN Miniport (L2TP)
Adapter Type Not Available
Product Type WAN Miniport (L2TP)
Installed Yes
PNP Device ID ROOT\MS_L2TPMINIPOINT\0000
Last Reset 12/2/2003 11:52 AM
Index 4
Service Name Rasl2tp
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Driver c:\windows\system32\drivers\rasl2tp.sys (5.2.3790.0
(srv03_rtm.030324-2048), 77.00 KB (78,848 bytes), 3/25/2003 11:00 AM)

Name [00000005] WAN Miniport (PPTP)
Adapter Type Wide Area Network (WAN)
Product Type WAN Miniport (PPTP)
Installed Yes
PNP Device ID ROOT\MS_PPTPMINIPOINT\0000
Last Reset 12/2/2003 11:52 AM
Index 5
Service Name PptpMiniport
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 50:50:54:50:30:30
Driver c:\windows\system32\drivers\raspttp.sys (5.2.3790.0
(srv03_rtm.030324-2048), 70.50 KB (72,192 bytes), 3/25/2003 11:00 AM)

Name [00000006] WAN Miniport (PPPOE)
Adapter Type Wide Area Network (WAN)
Product Type WAN Miniport (PPPOE)
Installed Yes
PNP Device ID ROOT\MS_PPPOEMINIPOINT\0000
Last Reset 12/2/2003 11:52 AM
Index 6
Service Name RasPppoe
IP Address Not Available
IP Subnet Not Available

Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 33:50:6F:45:30:30
Driver c:\windows\system32\drivers\raspppoe.sys (5.2.3790.0
(srv03_rtm.030324-2048), 38.00 KB (38,912 bytes), 3/25/2003 11:00 AM)

Name [00000007] Direct Parallel
Adapter Type Not Available
Product Type Direct Parallel
Installed Yes
PNP Device ID ROOT\MS_PTMINIPOINT\0000
Last Reset 12/2/2003 11:52 AM
Index 7
Service Name Raspti
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Driver c:\windows\system32\drivers\raspti.sys (5.2.3790.0
(srv03_rtm.030324-2048), 18.50 KB (18,944 bytes), 3/25/2003 11:00 AM)

Name [00000008] WAN Miniport (IP)
Adapter Type Not Available
Product Type WAN Miniport (IP)
Installed Yes
PNP Device ID ROOT\MS_NDISWANIP\0000
Last Reset 12/2/2003 11:52 AM
Index 8
Service Name NdisWan
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Driver c:\windows\system32\drivers\ndiswan.sys (5.2.3790.0
(srv03_rtm.030324-2048), 96.50 KB (98,816 bytes), 3/25/2003 11:00 AM)

Name [00000009] cLAN Host Adapter
Adapter Type Not Available
Product Type cLAN Host Adapter
Installed Yes
PNP Device ID Not Available
Last Reset 12/2/2003 11:52 AM
Index 9
Service Name GNINDIS
IP Address Not Available

IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000010] Broadcom NetXtreme Gigabit Ethernet
Adapter Type Ethernet 802.3
Product Type Broadcom NetXtreme Gigabit Ethernet
Installed Yes
PNP Device ID
PCI\VEN_14E4&DEV_16A7&SUBSYS_01211028&REV_02\3&172E68DD&0&30

Last Reset 12/2/2003 11:52 AM
Index 10
Service Name b57w2k
IP Address 192.168.91.8
IP Subnet 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 00:06:5B:FE:80:C4
Memory Address 0xFCD10000-0xFCD1FFFF
IRQ Channel IRQ 28
Driver c:\windows\system32\drivers\b57xp32.sys (2.91.0.0 built by:
WinDDK, 137.00 KB (140,288 bytes), 7/16/2003 8:39 AM)

Name [00000011] Broadcom NetXtreme Gigabit Ethernet
Adapter Type Ethernet 802.3
Product Type Broadcom NetXtreme Gigabit Ethernet
Installed Yes
PNP Device ID
PCI\VEN_14E4&DEV_16A7&SUBSYS_01211028&REV_02\3&172E68DD&0&40

Last Reset 12/2/2003 11:52 AM
Index 11
Service Name b57w2k
IP Address 192.8.1.1
IP Subnet 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 00:06:5B:FE:80:C5
Memory Address 0xFCD00000-0xFCD0FFFF
IRQ Channel IRQ 29
Driver c:\windows\system32\drivers\b57xp32.sys (2.91.0.0 built by:
WinDDK, 137.00 KB (140,288 bytes), 7/16/2003 8:39 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_{09256DBF-D085-4ADB-A3C8-23BE6BD4180B}] SEQPACKET 6
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{09256DBF-D085-4ADB-A3C8-23BE6BD4180B}] DATAGRAM 6
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{BBD86F7E-2F9F-4C5F-AF99-6B9104009C80}] SEQPACKET 5
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No

Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{BBD86F7E-2F9F-4C5F-AF99-6B9104009C80}] DATAGRAM 5
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{E02AF43D-453A-494B-9807-62F5640324E3}] SEQPACKET 4
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{E02AF43D-453A-494B-9807-62F5640324E3}] DATAGRAM 4
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No

Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{F8003B81-70DB-411C-B383-CF9434D33F7A}] 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_{F8003B81-70DB-411C-B383-CF9434D33F7A}] 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_{A218374A-72E5-46C8-A286-324E933BCAB4}] SEQPACKET 1
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No

Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{A218374A-72E5-46C8-A286-324E933BCAB4}] 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_{2382CB34-8270-44D4-B672-233CC1568F18}] 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_{2382CB34-8270-44D4-B672-233CC1568F18}] DATAGRAM 2
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No

Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\\Device\\NetBT_Tcpip_{6DD7A721-5093-4121-86B6-C903B9FA7030}] 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_{6DD7A721-5093-4121-86B6-C903B9FA7030}] DATAGRAM 3
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

[WinSock]

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

File c:\\windows\\system32\\wsock32.dll
Size 22.00 KB (22,528 bytes)
Version 5.2.3790.0 (srv03_rtm.030324-2048)

[Ports]

[Serial]

Item Value

Name Communications Port (COM1)
Status OK
PNP Device ID ACPI\\PNP0501\\1
Maximum Input Buffer Size 0
Maximum Output Buffer Size No
Settable Baud Rate Yes
Settable Data Bits Yes
Settable Flow Control Yes
Settable Parity Yes
Settable Parity Check Yes
Settable Stop Bits Yes
Settable RLSD Yes
Supports RLSD Yes
Supports 16 Bit Mode No
Supports Special Characters No
Baud Rate 9600
Bits/Byte 8
Stop Bits 1
Parity None
Busy No
Abort Read/Write on Error No
Binary Mode Enabled Yes
Continue Xmit on XOff No
CTS Outflow Control No
Discard NULL Bytes No
DSR Outflow Control 0
DSR Sensitivity 0
DTR Flow Control Type Enable
EOF Character 0
Error Replace Character 0
Error Replacement Enabled No
Event Character 0
Parity Check Enabled No
RTS Flow Control Type Enable
XOff Character 19
XOffXmit Threshold 512
XOn Character 17
XOnXmit Threshold 2048
XOnXOff InFlow Control 0
XOnXOff OutFlow Control 0
I/O Port 0x000003F8-0x000003FF
IRQ Channel IRQ 4
Driver c:\\windows\\system32\\drivers\\serial.sys (5.2.3790.0 (srv03_rtm.030324-2048), 76.00 KB (77,824 bytes), 3/25/2003 11:00 AM)

Name Communications Port (COM2)
Status OK
PNP Device ID ACPI\\PNP0501\\2
Maximum Input Buffer Size 0
Maximum Output Buffer Size No
Settable Baud Rate Yes
Settable Data Bits Yes
Settable Flow Control Yes
Settable Parity Yes
Settable Parity Check Yes
Settable Stop Bits Yes
Settable RLSD Yes
Supports RLSD Yes

```

Supports 16 Bit Mode    No
Supports Special Characters  No
Baud Rate              9600
Bits/Byte              8
Stop Bits              1
Parity                 None
Busy                   No
Abort Read/Write on Error  No
Binary Mode Enabled    Yes
Continue XMit on XOff  No
CTS Outflow Control    No
Discard NULL Bytes     No
DSR Outflow Control    0
DSR Sensitivity        0
DTR Flow Control Type  Enable
EOF Character          0
Error Replace Character  0
Error Replacement Enabled  No
Event Character        0
Parity Check Enabled   No
RTS Flow Control Type  Enable
XOff Character         19
XOffXMit Threshold    512
XOn Character          17
XOnXMit Threshold     2048
XOnXOff InFlow Control 0
XOnXOff OutFlow Control 0
I/O Port              0x000002F8-0x000002FF
IRQ Channel           IRQ 3
Driver c:\windows\system32\drivers\serial.sys (5.2.3790.0
(srv03_rtm.030324-2048), 76.00 KB (77,824 bytes), 3/25/2003 11:00 AM)

```

[Parallel]

```
Item Value
```

[Storage]

[Drives]

```

Item Value
Drive A:
Description 3 1/2 Inch Floppy Drive

Drive C:
Description Local Fixed Disk
Compressed No
File System NTFS
Size 16.95 GB (18,202,509,312 bytes)
Free Space 12.26 GB (13,166,764,032 bytes)
Volume Name
Volume Serial Number 7433AD41

Drive D:
Description CD-ROM Disc

```

[Disks]

```

Item Value
Description Disk drive
Manufacturer (Standard disk drives)
Model SEAGATE ST318406LC 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 3
SCSI Target ID 0
Sectors/Track 63
Size 16.95 GB (18,202,544,640 bytes)
Total Cylinders 2,213
Total Sectors 35,551,845
Total Tracks 564,315
Tracks/Cylinder 255
Partition Disk #0, Partition #0
Partition Size 16.95 GB (18,202,512,384 bytes)
Partition Starting Offset 32,256 bytes

```

[SCSI]

```

Item Value
Name Adaptec AIC-7899 Ultra160 PCI SCSI Card
Manufacturer Adaptec
Status OK
PNP Device ID
PCI\VEN_9005&DEV_00CF&SUBSYS_01211028&REV_01\4&22300438&0&3040

I/O Port 0x0000AC00-0x0000ACFF
Memory Address 0xFCAFF000-0xFCAFFFFF
IRQ Channel IRQ 30
Driver c:\windows\system32\drivers\adpu160m.sys (RTC_XP07
(lab01_n(storbuild).010917-1031), 99.63 KB (102,016 bytes), 3/25/2003
11:00 AM)

Name Adaptec AIC-7899 Ultra160 PCI SCSI Card
Manufacturer Adaptec
Status OK
PNP Device ID
PCI\VEN_9005&DEV_00CF&SUBSYS_01211028&REV_01\4&22300438&0&3140

I/O Port 0x0000A800-0x0000A8FF
Memory Address 0xFCAFE000-0xFCAFEFFF
IRQ Channel IRQ 31
Driver c:\windows\system32\drivers\adpu160m.sys (RTC_XP07
(lab01_n(storbuild).010917-1031), 99.63 KB (102,016 bytes), 3/25/2003
11:00 AM)

Name QLogic QLA23xx PCI Fibre Channel Adapter
Manufacturer QLogic
Status OK
PNP Device ID PCI\VEN_1077&DEV_2312&SUBSYS_010C1077&REV_02\3&1070020&0&30

I/O Port 0x0000DC00-0x0000DCFF

```

Memory Address 0xFCF00000-0xFCF00FFF
 IRQ Channel IRQ 16
 Driver c:\windows\system32\drivers\ql2300.sys (8.2.2.10 (W2K VI), 435.41 KB (445,858 bytes), 4/16/2003 7:44 PM)

[IDE]

Item Value
 Name CSB5 IDE Controller
 Manufacturer ServerWorks
 Status OK
 PNP Device ID
 PCI\VEN_1166&DEV_0212&SUBSYS_02121166&REV_93\3&13C0B0C5&0&79

I/O Port 0x000008B0-0x000008BF
 Driver c:\windows\system32\drivers\pciide.sys (5.2.3790.0 (srv03_rtm.030324-2048), 5.50 KB (5,632 bytes), 3/25/2003 11:00 AM)

Name Primary IDE Channel
 Manufacturer (Standard IDE ATA/ATAPI controllers)
 Status OK
 PNP Device ID PCIIDE\IDECHANNEL\4&10A8249&0&0
 I/O Port 0x000001F0-0x000001F7
 I/O Port 0x000003F6-0x000003F6
 IRQ Channel IRQ 14
 Driver c:\windows\system32\drivers\atapi.sys (5.2.3790.0 (srv03_rtm.030324-2048), 89.00 KB (91,136 bytes), 3/25/2003 11:00 AM)

Name Secondary IDE Channel
 Manufacturer (Standard IDE ATA/ATAPI controllers)
 Status OK
 PNP Device ID PCIIDE\IDECHANNEL\4&10A8249&0&1
 I/O Port 0x00000170-0x00000177
 I/O Port 0x00000376-0x00000376
 Driver c:\windows\system32\drivers\atapi.sys (5.2.3790.0 (srv03_rtm.030324-2048), 89.00 KB (91,136 bytes), 3/25/2003 11:00 AM)

[Printing]

| Name | Driver | Port Name | Server Name |
|------|--------|-----------|-------------|
|------|--------|-----------|-------------|

[Problem Devices]

| Device | PNP Device ID | Error Code |
|------------|--|--|
| PCI Device | PCI\VEN_1028&DEV_000C&SUBSYS_000C1028&REV_00\3&13C0B0C5&0&20 | The drivers for this device are not installed. |
| PCI Device | PCI\VEN_1028&DEV_0008&SUBSYS_00081028&REV_00\3&13C0B0C5&0&21 | The drivers for this device are not installed. |
| PCI Device | PCI\VEN_1028&DEV_000D&SUBSYS_000D1028&REV_00\3&13C0B0C5&0&22 | The drivers for this device are not installed. |

[USB]

| Device | PNP Device ID |
|--------|---------------|
|--------|---------------|

ServerWorks (RCC) PCI to USB Open Host Controller
 PCI\VEN_1166&DEV_0220&SUBSYS_02201166&REV_05\3&13C0B0C5&0&7A

USB Root Hub USB\ROOT_HUB\4&1A0F8909&0

[Software Environment]

[System Drivers]

| Name | Description | File | Type | Started | Start Mode | State | Status |
|----------|--|--|---------------|---------------|------------|---------|--------|
| abiosdsk | Abiosdsk | | Not Available | Kernel Driver | No | | |
| | Disabled | Stopped | OK | Ignore | No | | |
| acpi | Microsoft ACPI Driver | c:\windows\system32\drivers\acpi.sys | Kernel Driver | Yes | Boot | Running | OK |
| acpiec | ACPIEC | c:\windows\system32\drivers\acpiec.sys | Kernel Driver | No | Disabled | Stopped | OK |
| adpu160m | adpu160m | c:\windows\system32\drivers\adpu160m.sys | Kernel Driver | Yes | Boot | Running | OK |
| adpu320 | adpu320 | Not Available | Kernel Driver | No | Disabled | Stopped | OK |
| afcnt | afcnt | Not Available | Kernel Driver | No | Disabled | Stopped | OK |
| afd | AFD Networking Support Environment | c:\windows\system32\drivers\afd.sys | Kernel Driver | Yes | Auto | Running | OK |
| aha154x | Aha154x | Not Available | Kernel Driver | No | Disabled | Stopped | OK |
| aic78u2 | aic78u2 | Not Available | Kernel Driver | No | Disabled | Stopped | OK |
| aic78xx | aic78xx | Not Available | Kernel Driver | No | Disabled | Stopped | OK |
| aliide | AliIde | Not Available | Kernel Driver | No | Disabled | Stopped | OK |
| asyncmac | RAS Asynchronous Media Driver | c:\windows\system32\drivers\asyncmac.sys | Kernel Driver | No | Manual | Stopped | OK |
| atapi | Standard IDE/ESDI Hard Disk Controller | c:\windows\system32\drivers\atapi.sys | Kernel Driver | Yes | Boot | Running | OK |
| atdisk | Atdisk | Not Available | Kernel Driver | No | Disabled | Stopped | OK |
| ati2mpad | ati2mpad | c:\windows\system32\drivers\ati2mpad.sys | Kernel Driver | Yes | Manual | Running | OK |
| atmarpc | ATM ARP Client Protocol | c:\windows\system32\drivers\atmarpc.sys | Kernel Driver | No | Manual | Stopped | OK |
| audstub | Audio Stub Driver | c:\windows\system32\drivers\audstub.sys | Kernel Driver | Yes | Manual | Running | OK |
| b57w2k | Broadcom NetXtreme Gigabit Ethernet | c:\windows\system32\drivers\b57xp32.sys | Kernel Driver | Yes | Manual | Running | OK |
| beep | Beep | c:\windows\system32\drivers\beep.sys | Kernel Driver | Yes | System | Running | OK |


```

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

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

sfloppy Sfloppy c:\windows\system32\drivers\sfloppy.sys Kernel Driver
No System Stopped OK Ignore No No

simbad Simbad Not Available Kernel Driver No Disabled
Stopped OK Normal No No

sparrow Sparrow Not Available Kernel Driver No Disabled
Stopped OK Normal No No

srv Srv c:\windows\system32\drivers\srv.sys File System Driver
Yes Manual Running OK Normal No Yes

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

symc810 symc810 Not Available Kernel Driver No Disabled
Stopped OK Normal No No

symc8xx symc8xx Not Available Kernel Driver No Disabled
Stopped OK Normal No No

symmpi symmpi Not Available Kernel Driver No Disabled
Stopped OK Normal No No

sym_hi sym_hi Not Available Kernel Driver No Disabled
Stopped OK Normal No No

sym_u3 sym_u3 Not Available Kernel Driver No Disabled
Stopped OK Normal No No

tcpip TCP/IP Protocol Driver c:\windows\system32\drivers\tcpip.sys Kernel
Driver Yes System Running OK Normal No Yes

tdpipe TDPIPE c:\windows\system32\drivers\tdpipe.sys Kernel Driver
No Manual Stopped OK Ignore No No

tdtcp TDTCP c:\windows\system32\drivers\tdtcp.sys Kernel Driver Yes
Manual Running OK Ignore No Yes

termdd Terminal Device Driver c:\windows\system32\drivers\termdd.sys
Kernel Driver Yes System Running OK Normal No Yes

toside TosIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No

udfs Udfs c:\windows\system32\drivers\udfs.sys File System Driver
No Disabled Stopped OK Normal No No

ultra ultra Not Available Kernel Driver No Disabled
Stopped OK Normal No No

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

usbhub USB2 Enabled Hub c:\windows\system32\drivers\usbhub.sys
Kernel Driver Yes Manual Running OK Normal No Yes

usbohci Microsoft USB Open Host Controller Miniport Driver
c:\windows\system32\drivers\usbohci.sys Kernel Driver Yes
Manual Running OK Normal No Yes

vgasave VGA Display Controller. c:\windows\system32\drivers\vga.sys
Kernel Driver Yes System Running OK Ignore No Yes

viaide ViaIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No

volsnap Storage volumes c:\windows\system32\drivers\volsnap.sys
Kernel Driver Yes Boot Running OK Normal No Yes

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```

wanarp Remote Access IP ARP Driver
c:\windows\system32\drivers\wanarp.sys Kernel Driver Yes
Manual Running OK Normal No Yes

wdica WDICA Not Available Kernel Driver No Manual Stopped OK
Ignore No No

wlbs Network Load Balancing c:\windows\system32\drivers\wlbs.sys Kernel
Driver No Manual Stopped OK Normal No No

```

[Signed Drivers]

| Device Name | Signed | Device Class | Driver Version | Driver Date |
|--|---------------|-------------------|--------------------|---------------------------|
| Manufacturer | INF Name | Driver Name | Device ID | |
| Not Available | Not Available | Not Available | Not Available | Not Available |
| ACPI Multiprocessor PC | Yes | COMPUTER | 5.2.3790.0 | 10/1/2002 |
| (Standard computers) | hal.inf | Not Available | ROOT\ACPI_HAL\0000 | |
| Microsoft ACPI-Compliant System | Yes | SYSTEM | 5.2.3790.0 | |
| 10/1/2002 | Microsoft | acpi.inf | Not Available | |
| ACPI_HAL\PNP0C08\0 | | | | |
| Processor | Yes | PROCESSOR | 5.2.3790.0 | 10/1/2002 |
| (Standard processor types) | cpu.inf | Not Available | | |
| ACPI\GENUINEINTEL - X86_FAMILY_15_MODEL_2_0 | | | | |
| Processor | Yes | PROCESSOR | 5.2.3790.0 | 10/1/2002 |
| (Standard processor types) | cpu.inf | Not Available | | |
| ACPI\GENUINEINTEL - X86_FAMILY_15_MODEL_2_1 | | | | |
| Processor | Yes | PROCESSOR | 5.2.3790.0 | 10/1/2002 |
| (Standard processor types) | cpu.inf | Not Available | | |
| ACPI\GENUINEINTEL - X86_FAMILY_15_MODEL_2_2 | | | | |
| Processor | Yes | PROCESSOR | 5.2.3790.0 | 10/1/2002 |
| (Standard processor types) | cpu.inf | Not Available | | |
| ACPI\GENUINEINTEL - X86_FAMILY_15_MODEL_2_3 | | | | |
| PCI bus Yes | SYSTEM | 5.2.3790.0 | 10/1/2002 | (Standard system devices) |
| machine.inf | Not Available | ACPI\PNP0A03\1 | | |
| ServerWorks (RCC) CMIC_LE Processor to PCI Bridge(*) | Yes | SYSTEM | | |
| 5.2.3790.0 | 10/1/2002 | ServerWorks (RCC) | machine.inf | |
| Not Available | | | | |
| PCI\VEN_1166&DEV_0014&SUBSYS_00000000&REV_32\3&13C0B0C5&0&00 | | | | |
| ServerWorks (RCC) CMIC_LE Processor to PCI Bridge(*) | Yes | SYSTEM | | |
| 5.2.3790.0 | 10/1/2002 | ServerWorks (RCC) | machine.inf | |
| Not Available | | | | |
| PCI\VEN_1166&DEV_0014&SUBSYS_00000000&REV_00\3&13C0B0C5&0&01 | | | | |
| ServerWorks (RCC) CMIC_LE Processor to PCI Bridge(*) | Yes | SYSTEM | | |
| 5.2.3790.0 | 10/1/2002 | ServerWorks (RCC) | machine.inf | |
| Not Available | | | | |
| PCI\VEN_1166&DEV_0014&SUBSYS_00000000&REV_00\3&13C0B0C5&0&02 | | | | |
| PCI Device | Not Available | UNKNOWN | Not Available | Not Available |
| Available | Not Available | Not Available | | |
| PCI\VEN_1028&DEV_000C&SUBSYS_000C1028&REV_00\3&13C0B0C5&0&20 | | | | |
| PCI Device | Not Available | UNKNOWN | Not Available | Not Available |
| Available | Not Available | Not Available | | |
| PCI\VEN_1028&DEV_0008&SUBSYS_00081028&REV_00\3&13C0B0C5&0&21 | | | | |
| PCI Device | Not Available | UNKNOWN | Not Available | Not Available |
| Available | Not Available | Not Available | | |

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PCI\VEN_1028&DEV_000D&SUBSYS_000D1028&REV_00\3&13C0B0C5&0&22
RAGE XL PCI Family (Microsoft Corporation) Yes DISPLAY 5.10.2600.6014
8/8/2001 ATI Technologies Inc. atiixpad.inf Not Available
PCI\VEN_1002&DEV_4752&SUBSYS_01211028&REV_27\3&13C0B0C5&0&70

Plug and Play Monitor Yes MONITOR 5.1.2001.0 6/6/2001
(Standard monitor types) monitor.inf Not Available
DISPLAY\DEL0000\4&2664298A&0&80000001&00&0E
ServerWorks Champion CSB5 - SouthBridge 5 Yes SYSTEM 5.2.3790.0
10/1/2002 ServerWorks (RCC) machine.inf Not Available
PCI\VEN_1166&DEV_0201&SUBSYS_00000000&REV_93\3&13C0B0C5&0&78

Direct memory access controller Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available ACPI\PNP0200\4&25F73A82&0
Numeric data processor Yes SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf Not Available
ACPI\PNP0C04\4&25F73A82&0
Programmable interrupt controller Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available ACPI\PNP0000\4&25F73A82&0
System speaker Yes SYSTEM 5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
ACPI\PNP0800\4&25F73A82&0
System timer Yes SYSTEM 5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available
ACPI\PNP0100\4&25F73A82&0
Standard floppy disk controller Yes FDC 5.2.3790.0
10/1/2002 (Standard floppy disk controllers) fdc.inf Not
Available ACPI\PNP0700\4&25F73A82&0
Floppy disk drive Yes FLOPPYDISK 5.2.3790.0 10/1/2002
(Standard floppy disk drives) fpydisk.inf Not Available
FDC\GENERIC_FLOPPY_DRIVE\5&1AE2F47D&0&0
Standard 101/102-Key or Microsoft Natural PS/2 Keyboard Yes
KEYBOARD 5.2.3790.0 10/1/2002 (Standard keyboards)
keyboard.inf Not Available ACPI\PNP0303\4&25F73A82&0
PS/2 Compatible Mouse Yes MOUSE 5.2.3790.0 10/1/2002
Microsoft msmouse.inf Not Available
ACPI\PNP0F13\4&25F73A82&0
Communications Port Yes PORTS 5.2.3790.0 10/1/2002
(Standard port types) msports.inf Not Available ACPI\PNP0501\1

Communications Port Yes PORTS 5.2.3790.0 10/1/2002
(Standard port types) msports.inf Not Available ACPI\PNP0501\2

System CMOS/real time clock Yes SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf Not Available
ACPI\PNP0B00\4&25F73A82&0
System board Yes SYSTEM 5.2.3790.0 10/1/2002 (Standard
system devices) machine.inf Not Available ACPI\PNP0C01\2
CSB5 IDE Controller Yes HDC 5.2.3790.0 10/1/2002
ServerWorks mshdc.inf Not Available
PCI\VEN_1166&DEV_0212&SUBSYS_02121166&REV_93\3&13C0B0C5&0&79

Primary IDE Channel Yes HDC 5.2.3790.0 10/1/2002
(Standard IDE ATA/ATAPI controllers) mshdc.inf Not Available
PCIIDE\IDECHANNEL\4&10A8249&0&0

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CD-ROM Drive Yes CDROM 5.2.3790.0 10/1/2002 (Standard CD-
ROM drives) cdrom.inf Not Available IDE\CDROMTEAC_CD-
224E K.9A \5&3125DC91&0&0.0.0
Secondary IDE Channel Yes HDC 5.2.3790.0 10/1/2002
(Standard IDE ATA/ATAPI controllers) mshdc.inf Not Available
PCIIDE\IDECHANNEL\4&10A8249&0&1
ServerWorks (RCC) PCI to USB Open Host Controller Yes USB
5.2.3790.0 10/1/2002 ServerWorks (RCC) usbport.inf
Not Available
PCI\VEN_1166&DEV_0220&SUBSYS_02201166&REV_05\3&13C0B0C5&0&7A

USB Root Hub Yes USB 5.2.3790.0 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
USB\ROOT_HUB\4&1A0F8909&0
Serverworks Champion CSB5 - SouthBridge 5 LPC Yes SYSTEM
5.2.3790.0 10/1/2002 ServerWorks (RCC) machine.inf
Not Available
PCI\VEN_1166&DEV_0225&SUBSYS_00000000&REV_00\3&13C0B0C5&0&7B

ISAPNP Read Data Port Yes SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf Not Available
ISAPNP\READDATAPORT\0
ServerWorks Grand Champion CIOB_X2 - I/O Bridge 133 Mhz Yes SYSTEM
5.2.3790.0 10/1/2002 ServerWorks (RCC) machine.inf
Not Available
PCI\VEN_1166&DEV_0101&SUBSYS_00000000&REV_05\3&13C0B0C5&0&80

ServerWorks Grand Champion CIOB_X2 - I/O Bridge 133 Mhz Yes SYSTEM
5.2.3790.0 10/1/2002 ServerWorks (RCC) machine.inf
Not Available
PCI\VEN_1166&DEV_0101&SUBSYS_00000000&REV_05\3&13C0B0C5&0&82

ServerWorks Grand Champion CIOB_X2 - I/O Bridge 133 Mhz Yes SYSTEM
5.2.3790.0 10/1/2002 ServerWorks (RCC) machine.inf
Not Available
PCI\VEN_1166&DEV_0101&SUBSYS_00000000&REV_05\3&13C0B0C5&0&88

ServerWorks Grand Champion CIOB_X2 - I/O Bridge 133 Mhz Yes SYSTEM
5.2.3790.0 10/1/2002 ServerWorks (RCC) machine.inf
Not Available
PCI\VEN_1166&DEV_0101&SUBSYS_00000000&REV_05\3&13C0B0C5&0&8A

PCI bus Yes SYSTEM 5.2.3790.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\5
PCI standard PCI-to-PCI bridge Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&474B838&0&40

Adaptec AIC-7899 Ultra160 PCI SCSI Card Yes SCSIADAPTER
5.2.3790.0 10/1/2002 Adaptec pnp SCSI.inf Not Available
PCI\VEN_9005&DEV_00CF&SUBSYS_01211028&REV_01\4&22300438&0&3040

Disk drive Yes DISKDRIVE 5.2.3790.0 10/1/2002
(Standard disk drives) disk.inf Not Available
SCSI\DISK&VEN_SEAGATE&PROD_ST318406LC&REV_8A03\5&1F5E3F1F&0&000

PE 1x5 Backplane Yes SYSTEM 5.2.3790.0 10/1/2002 Dell
scsidev.inf Not Available

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Remote Access IP ARP Driver Not Available LEGACYDRIVER Not Available
  Not Available Not Available Not Available Not Available
  ROOT\LEGACY_WANARP\0000
Audio Codecs Yes MEDIA 5.2.3790.0 10/1/2002 (Standard
system devices) wave.inf Not Available ROOT\MEDIA\MS_MMCM
Legacy Audio Drivers Yes MEDIA 5.2.3790.0 10/1/2002
(Standard system devices) wave.inf Not Available
  ROOT\MEDIA\MS_MMDRV
Media Control Devices Yes MEDIA 5.2.3790.0 10/1/2002
(Standard system devices) wave.inf Not Available
  ROOT\MEDIA\MS_MMMCI
Legacy Video Capture Devices Yes MEDIA 5.2.3790.0 10/1/2002
(Standard system devices) wave.inf Not Available
  ROOT\MEDIA\MS_MMVCD
Video Codecs Yes MEDIA 5.2.3790.0 10/1/2002 (Standard
system devices) wave.inf Not Available ROOT\MEDIA\MS_MMVID

WAN Miniport (L2TP) Yes NET 5.2.3790.0 10/1/2002
  Microsoft netrasa.inf Not Available
  ROOT\MS_L2TPMINIPOINT\0000
WAN Miniport (IP) Yes NET 5.2.3790.0 10/1/2002
  Microsoft netrasa.inf Not Available
  ROOT\MS_NDISWANIP\0000
WAN Miniport (PPPOE) Yes NET 5.2.3790.0 10/1/2002
  Microsoft netrasa.inf Not Available
  ROOT\MS_PPPOEMINIPOINT\0000
WAN Miniport (PPTP) Yes NET 5.2.3790.0 10/1/2002
  Microsoft netrasa.inf Not Available
  ROOT\MS_PPTPMINIPOINT\0000
Direct Parallel Yes NET 5.2.3790.0 10/1/2002
  Microsoft netrasa.inf Not Available
  ROOT\MS_PTIMINIPOINT\0000
Terminal Server Device Redirector Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available ROOT\RDPDR\0000
Terminal Server Keyboard Driver Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available ROOT\RDP_KBD\0000
Terminal Server Mouse Driver Yes SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf Not Available
  ROOT\RDP_MOUSE\0000
Plug and Play Software Device Enumerator Yes SYSTEM 5.2.3790.0
10/1/2002 (Standard system devices) machine.inf Not
Available ROOT\SYSTEM\0000
Microcode Update Device Yes SYSTEM 5.2.3790.0 10/1/2002
(Standard system devices) machine.inf Not Available
  ROOT\SYSTEM\0001

[Environment Variables]

Variable Value User Name
ComSpec %SystemRoot%\system32\cmd.exe <SYSTEM>
Path
  %SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;C:\P
rogram Files\Microsoft SQL Server\80\Tools\BINN <SYSTEM>
windir %SystemRoot% <SYSTEM>
OS Windows NT <SYSTEM>
PROCESSOR_ARCHITECTURE x86 <SYSTEM>

```

```

PROCESSOR_LEVEL 15 <SYSTEM>
PROCESSOR_IDENTIFIER x86 Family 15 Model 2 Stepping 9, GenuineIntel
  <SYSTEM>
PROCESSOR_REVISION 0209 <SYSTEM>
NUMBER_OF_PROCESSORS 4 <SYSTEM>
ClusterLog C:\WINDOWS\Cluster\cluster.log <SYSTEM>
PATHEXT .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH <SYSTEM>

TEMP %SystemRoot%\TEMP <SYSTEM>
TMP %SystemRoot%\TEMP <SYSTEM>
TEMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\SYSTEM
TMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\SYSTEM
TEMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\LOCAL SERVICE
TMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\LOCAL SERVICE
TEMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\NETWORK SERVICE
TMP %USERPROFILE%\Local Settings\Temp NT AUTHORITY\NETWORK SERVICE
TEMP %USERPROFILE%\Local Settings\Temp CLIENT8\Administrator
TMP %USERPROFILE%\Local Settings\Temp CLIENT8\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 344 11 204800 1413120 12/2/2003
11:53 AM Not Available Not Available Not Available
csrss.exe Not Available 472 13 Not Available Not Available
12/2/2003 11:53 AM Not Available Not Available Not Available

winlogon.exe c:\windows\system32\winlogon.exe 496 13 204800
1413120 12/2/2003 11:53 AM 5.2.3790.0 (srv03_rtm.030324-2048)
536.50 KB (549,376 bytes) 3/25/2003 11:00 AM
services.exe c:\windows\system32\services.exe 608 9 204800
1413120 12/2/2003 11:53 AM 5.2.3790.0 (srv03_rtm.030324-2048)
102.00 KB (104,448 bytes) 3/25/2003 11:00 AM
lsass.exe c:\windows\system32\lsass.exe 620 9 204800
1413120 12/2/2003 11:53 AM 5.2.3790.0 (srv03_rtm.030324-2048)
13.00 KB (13,312 bytes) 3/25/2003 11:00 AM

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| | | | | | | | | |
|---------------|--|-------------------------------------|---------------|--------------------|----------|--------------------------------------|----------|----------------------------------|
| svchost.exe | c:\windows\system32\svchost.exe | 828 | 8 | 204800 | msvcrt | 7.0.3790.0 (srv03_rtm.030324-2048) | 319.50 | KB (327,168 bytes) |
| | 1413120 12/2/2003 11:53 AM | 5.2.3790.0 (srv03_rtm.030324-2048) | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 13.00 KB (13,312 bytes) | 3/25/2003 11:00 AM | | | | | | c:\windows\system32\msvcrt.dll |
| gnconmgr.exe | c:\windows\system32\gnconmgr.exe | 880 | 8 | 204800 | advapi32 | 5.2.3790.0 (srv03_rtm.030324-2048) | 559.50 | KB (572,928 bytes) |
| | 1413120 12/2/2003 11:53 AM | 4.2.0.75 | 168.05 | KB (172,079 bytes) | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 7/16/2003 6:40 PM | | | | | | | c:\windows\system32\advapi32.dll |
| svchost.exe | c:\windows\system32\svchost.exe | 892 | 8 | 204800 | rpcrt4 | 5.2.3790.59 (srv03_gdr.030614-1004) | 642.50 | KB (657,920 bytes) |
| | 1413120 12/2/2003 11:53 AM | 5.2.3790.0 (srv03_rtm.030324-2048) | | | | 7/5/2003 1:03 PM | | Microsoft Corporation |
| | 13.00 KB (13,312 bytes) | 3/25/2003 11:00 AM | | | | | | c:\windows\system32\rpcrt4.dll |
| mnmsrvc.exe | c:\windows\system32\mnmsrvc.exe | 976 | 8 | 204800 | user32 | 5.2.3790.0 (srv03_rtm.030324-2048) | 562.00 | KB (575,488 bytes) |
| | 1413120 12/2/2003 11:53 AM | 4.4.4000 | 32.00 | KB (32,768 bytes) | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 7/16/2003 3:50 PM | | | | | | | c:\windows\system32\user32.dll |
| rundll32.exe | c:\windows\system32\rundll32.exe | 1008 | 8 | 204800 | gdi32 | 5.2.3790.0 (srv03_rtm.030324-2048) | 263.00 | KB (269,312 bytes) |
| | 1413120 12/2/2003 11:53 AM | 5.2.3790.0 (srv03_rtm.030324-2048) | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 32.00 KB (32,768 bytes) | 3/25/2003 11:00 AM | | | | | | c:\windows\system32\gdi32.dll |
| svchost.exe | Not Available | 1076 | 8 | Not Available | userenv | 5.2.3790.0 (srv03_rtm.030324-2048) | 732.50 | KB (750,080 bytes) |
| | 12/2/2003 11:53 AM | Not Available | Not Available | Not Available | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | | | | | | | | c:\windows\system32\userenv.dll |
| svchost.exe | c:\windows\system32\svchost.exe | 1144 | 8 | 204800 | nddeapi | 5.2.3790.0 (srv03_rtm.030324-2048) | 16.00 | KB (16,384 bytes) |
| | 1413120 12/2/2003 11:53 AM | 5.2.3790.0 (srv03_rtm.030324-2048) | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 13.00 KB (13,312 bytes) | 3/25/2003 11:00 AM | | | | | | c:\windows\system32\nddeapi.dll |
| explorer.exe | c:\windows\explorer.exe | 1420 | 8 | 204800 | crypt32 | 5.131.3790.0 (srv03_rtm.030324-2048) | 598.00 | KB (612,352 bytes) |
| | 1413120 12/2/2003 11:53 AM | 6.00.3790.0 (srv03_rtm.030324-2048) | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 1,008.50 KB (1,032,704 bytes) | 3/25/2003 11:00 AM | | | | | | c:\windows\system32\crypt32.dll |
| rhostsrvr.exe | c:\rhost\rhostsrvr.exe | 1528 | 8 | 204800 | msasn1 | 5.2.3790.0 (srv03_rtm.030324-2048) | 58.00 | KB (59,392 bytes) |
| | 12/2/2003 11:53 AM | Not Available | 54.50 | KB (55,808 bytes) | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 7/16/2003 4:49 PM | | | | | | | c:\windows\system32\msasn1.dll |
| svchost.exe | c:\windows\system32\svchost.exe | 1604 | 8 | 204800 | secur32 | 5.2.3790.0 (srv03_rtm.030324-2048) | 63.00 | KB (64,512 bytes) |
| | 1413120 12/2/2003 11:53 AM | 5.2.3790.0 (srv03_rtm.030324-2048) | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 13.00 KB (13,312 bytes) | 3/25/2003 11:00 AM | | | | | | c:\windows\system32\secur32.dll |
| wmiprvse.exe | Not Available | 2024 | 8 | Not Available | winsta | 5.2.3790.0 (srv03_rtm.030324-2048) | 51.00 | KB (52,224 bytes) |
| | 12/2/2003 11:54 AM | Not Available | Not Available | Not Available | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | | | | | | | | c:\windows\system32\winsta.dll |
| dllhost.exe | c:\windows\system32\dllhost.exe | 1328 | 8 | 204800 | netapi32 | 5.2.3790.0 (srv03_rtm.030324-2048) | 317.00 | KB (324,608 bytes) |
| | 1413120 12/2/2003 11:55 AM | 5.2.3790.0 (srv03_rtm.030324-2048) | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 5.50 KB (5,632 bytes) | 3/25/2003 11:00 AM | | | | | | c:\windows\system32\netapi32.dll |
| msdtc.exe | Not Available | 1672 | 8 | Not Available | profmap | 5.2.3790.0 (srv03_rtm.030324-2048) | 22.00 | KB (22,528 bytes) |
| | 12/2/2003 11:55 AM | Not Available | Not Available | Not Available | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | | | | | | | | c:\windows\system32\profmap.dll |
| msinfo32.exe | c:\program files\common files\microsoft shared\msinfo\msinfo32.exe | 3184 | 8 | 204800 | regapi | 5.2.3790.0 (srv03_rtm.030324-2048) | 48.50 | KB (49,664 bytes) |
| | 1413120 12/2/2003 5:55 PM | 5.2.3790.0 (srv03_rtm.030324-2048) | 40.50 | KB (41,472 bytes) | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | 7/16/2003 3:50 PM | | | | | | | c:\windows\system32\regapi.dll |
| wmiprvse.exe | Not Available | 3228 | 8 | Not Available | ws2_32 | 5.2.3790.0 (srv03_rtm.030324-2048) | 87.50 | KB (89,600 bytes) |
| | 12/2/2003 5:55 PM | Not Available | Not Available | Not Available | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | | | | | | | | c:\windows\system32\ws2_32.dll |
| | | | | | ws2help | 5.2.3790.0 (srv03_rtm.030324-2048) | 19.50 | KB (19,968 bytes) |
| | | | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | | | | | | | | c:\windows\system32\ws2help.dll |
| | | | | | psapi | 5.2.3790.0 (srv03_rtm.030324-2048) | 21.50 | KB (22,016 bytes) |
| | | | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | | | | | | | | c:\windows\system32\psapi.dll |
| | | | | | version | 5.2.3790.0 (srv03_rtm.030324-2048) | 17.00 | KB (17,408 bytes) |
| | | | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | | | | | | | | c:\windows\system32\version.dll |
| | | | | | setupapi | 5.2.3790.0 (srv03_rtm.030324-2048) | 1,014.50 | KB (1,038,848 bytes) |
| | | | | | | 3/25/2003 11:00 AM | | Microsoft Corporation |
| | | | | | | | | c:\windows\system32\setupapi.dll |

[Loaded Modules]

| Name | Version | Size | File | Date | Manufacturer | Path |
|----------|------------------------------------|--------|--------------------|--------------------|-----------------------|----------------------------------|
| winlogon | 5.2.3790.0 (srv03_rtm.030324-2048) | 536.50 | KB (549,376 bytes) | 3/25/2003 11:00 AM | Microsoft Corporation | c:\windows\system32\winlogon.exe |
| ntdll | 5.2.3790.0 (srv03_rtm.030324-2048) | 722.50 | KB (739,840 bytes) | 3/25/2003 11:00 AM | Microsoft Corporation | c:\windows\system32\ntdll.dll |
| kernel32 | 5.2.3790.0 (srv03_rtm.030324-2048) | 965.00 | KB (988,160 bytes) | 3/25/2003 11:00 AM | Microsoft Corporation | c:\windows\system32\kernel32.dll |

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msgina 5.2.3790.0 (srv03_rtm.030324-2048) 1.14 MB (1,191,936 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msgina.dll
shsvcs 6.00.3790.0 (srv03_rtm.030324-2048) 121.50 KB (124,416 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\shsvcs.dll
shlwapi 6.00.3790.0 (srv03_rtm.030324-2048) 281.00 KB (287,744 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\shlwapi.dll
sfc 5.2.3790.0 (srv03_rtm.030324-2048) 4.50 KB (4,608 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\sfc.dll
sfc_os 5.2.3790.0 (srv03_rtm.030324-2048) 133.00 KB (136,192 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\sfc_os.dll
wintrust 5.131.3790.0 (srv03_rtm.030324-2048) 161.50 KB (165,376
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\wintrust.dll
ole32 5.2.3790.68 (srv03_gdr.030614-1004) 1.13 MB (1,182,720 bytes)
7/5/2003 1:03 PM Microsoft Corporation
c:\windows\system32\ole32.dll
imagehlp 5.2.3790.0 (srv03_rtm.030324-2048) 142.50 KB (145,920
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\imagehlp.dll
comctl32 6.0 (srv03_rtm.030324-2048) 907.00 KB (928,768 bytes)
7/16/2003 8:34 AM Microsoft Corporation
c:\windows\winsxs\x86_microsoft.windows.common-
controls_6595b64144ccf1df_6.0.100.0_x-ww_8417450b\comctl32.dll
winscard 5.2.3790.0 (srv03_rtm.030324-2048) 98.50 KB (100,864
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\winscard.dll
wtsapi32 5.2.3790.0 (srv03_rtm.030324-2048) 17.50 KB (17,920
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\wtsapi32.dll
sxs 5.2.3790.0 (srv03_rtm.030324-2048) 733.00 KB (750,592 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\sxs.dll
wldap32 5.2.3790.0 (srv03_rtm.030324-2048) 158.00 KB (161,792 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\wldap32.dll
rsaenh 5.2.3790.0 (srv03_rtm.030324-2048) 176.83 KB (181,072 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\rsaenh.dll
cscdll 5.2.3790.0 (srv03_rtm.030324-2048) 99.00 KB (101,376 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\cscdll.dll
wlnotify 5.2.3790.0 (srv03_rtm.030324-2048) 87.50 KB (89,600
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\wlnotify.dll
winmm 5.2.3790.0 (srv03_rtm.030324-2048) 166.00 KB (169,984 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\winmm.dll
winspool 5.2.3790.0 (srv03_rtm.030324-2048) 140.00 KB (143,360
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\winspool.drv
mpr 5.2.3790.0 (srv03_rtm.030324-2048) 56.00 KB (57,344 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\mpr.dll

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shell32 6.00.3790.0 (srv03_rtm.030324-2048) 7.79 MB (8,166,400 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\shell32.dll
comctl32 5.82 (srv03_rtm.030324-2048) 561.00 KB (574,464 bytes)
7/16/2003 8:34 AM Microsoft Corporation
c:\windows\winsxs\x86_microsoft.windows.common-
controls_6595b64144ccf1df_5.82.0.0_x-ww_8a69ba05\comctl32.dll
uxtheme 6.00.3790.0 (srv03_rtm.030324-2048) 196.00 KB (200,704 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\uxtheme.dll
samlib 5.2.3790.0 (srv03_rtm.030324-2048) 49.00 KB (50,176 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\samlib.dll
cscui 5.2.3790.0 (srv03_rtm.030324-2048) 305.00 KB (312,320 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\cscui.dll
oleaut32 5.2.3790.0 486.00 KB (497,664 bytes) 3/25/2003
11:00 AM Microsoft Corporation c:\windows\system32\oleaut32.dll
clbcatq 2001.12.4720.0 (srv03_rtm.030324-2048) 481.00 KB (492,544
bytes) 7/16/2003 3:47 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 5.2.3790.0 (srv03_rtm.030324-2048) 114.00 KB (116,736 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\ntmarta.dll
wbemprox 5.2.3790.0 (srv03_rtm.030324-2048) 17.50 KB (17,920
bytes) 7/16/2003 3:46 PM Microsoft Corporation
c:\windows\system32\wbem\wbemprox.dll
wbemcomn 5.2.3790.0 (srv03_rtm.030324-2048) 211.50 KB (216,576
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\wbem\wbemcomn.dll
wbemsvc 5.2.3790.0 (srv03_rtm.030324-2048) 42.50 KB (43,520 bytes)
7/16/2003 3:46 PM Microsoft Corporation
c:\windows\system32\wbem\wbemsvc.dll
fastprox 5.2.3790.0 (srv03_rtm.030324-2048) 443.00 KB (453,632
bytes) 7/16/2003 3:46 PM Microsoft Corporation
c:\windows\system32\wbem\fastprox.dll
msvcpc60 6.05.2144.0 388.00 KB (397,312 bytes) 3/25/2003 11:00 AM
Microsoft Corporation c:\windows\system32\msvcpc60.dll
ntdsapi 5.2.3790.0 (srv03_rtm.030324-2048) 76.00 KB (77,824 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\ntdsapi.dll
dnsapi 5.2.3790.0 (srv03_rtm.030324-2048) 147.50 KB (151,040 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\dnsapi.dll
services 5.2.3790.0 (srv03_rtm.030324-2048) 102.00 KB (104,448
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\services.exe
scserv 5.2.3790.0 (srv03_rtm.030324-2048) 316.50 KB (324,096 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\scserv.dll
authz 5.2.3790.0 (srv03_rtm.030324-2048) 67.00 KB (68,608 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\authz.dll

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umpnpgmr 5.2.3790.0 (srv03_rtm.030324-2048) 121.50 KB (124,416
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\umpnpgmr.dll
ncobjapi 5.2.3790.0 (srv03_rtm.030324-2048) 34.50 KB (35,328
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\ncobjapi.dll
eventlog 5.2.3790.0 (srv03_rtm.030324-2048) 60.50 KB (61,952
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\eventlog.dll
lsass 5.2.3790.0 (srv03_rtm.030324-2048) 13.00 KB (13,312 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\lsass.exe
lsasrv 5.2.3790.0 (srv03_rtm.030324-2048) 780.50 KB (799,232 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\lsasrv.dll
samsrv 5.2.3790.0 (srv03_rtm.030324-2048) 452.00 KB (462,848 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\samsrv.dll
cryptdll 5.2.3790.0 (srv03_rtm.030324-2048) 34.00 KB (34,816
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\cryptdll.dll
msprivs 5.2.3790.0 (srv03_rtm.030324-2048) 46.50 KB (47,616 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msprivs.dll
kerberos 5.2.3790.0 (srv03_rtm.030324-2048) 332.50 KB (340,480
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\kerberos.dll
msv1_0 5.2.3790.0 (srv03_rtm.030324-2048) 127.00 KB (130,048 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msv1_0.dll
netlogon 5.2.3790.0 (srv03_rtm.030324-2048) 409.00 KB (418,816
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\netlogon.dll
w32time 5.2.3790.0 (srv03_rtm.030324-2048) 216.00 KB (221,184 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\w32time.dll
iphlpapi 5.2.3790.0 (srv03_rtm.030324-2048) 82.50 KB (84,480
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\iphlpapi.dll
schannel 5.2.3790.0 (srv03_rtm.030324-2048) 149.50 KB (153,088
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\schannel.dll
wdigest 5.2.3790.0 (srv03_rtm.030324-2048) 61.00 KB (62,464 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\wdigest.dll
rassfm 5.2.3790.0 (srv03_rtm.030324-2048) 20.50 KB (20,992 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\rassfm.dll
kdcsvc 5.2.3790.0 (srv03_rtm.030324-2048) 221.00 KB (226,304 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\kdcsvc.dll
ntdsa 5.2.3790.0 (srv03_rtm.030324-2048) 1.45 MB (1,520,640 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\ntdsa.dll
ntdsatq 5.2.3790.0 (srv03_rtm.030324-2048) 32.00 KB (32,768 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\ntdsatq.dll

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msock 5.2.3790.0 (srv03_rtm.030324-2048) 254.00 KB (260,096 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msock.dll
esent 5.2.3790.0 (srv03_rtm.030324-2048) 1.01 MB (1,056,256 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\esent.dll
scecli 5.2.3790.0 (srv03_rtm.030324-2048) 179.50 KB (183,808 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\scecli.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 5.2.3790.0 (srv03_rtm.030324-2048) 81.00 KB (82,944 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\psbase.dll
dssenh 5.2.3790.0 (srv03_rtm.030324-2048) 131.33 KB (134,480 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\dssenh.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
cryptnet 5.131.3790.0 (srv03_rtm.030324-2048) 59.50 KB (60,928
bytes) 3/25/2003 11:00 AM 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
winhttp 5.2.3790.0 (srv03_rtm.030324-2048) 327.50 KB (335,360 bytes)
7/16/2003 8:34 AM Microsoft Corporation
c:\windows\winsxs\x86_microsoft.windows.winhttp_6595b64144ccf1df_5
.1.0.0_x-ww_e0651936\winhttp.dll
rasapi32 5.2.3790.0 (srv03_rtm.030324-2048) 227.50 KB (232,960
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\rasapi32.dll
rasman 5.2.3790.0 (srv03_rtm.030324-2048) 56.50 KB (57,856 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\rasman.dll
tapi32 5.2.3790.0 (srv03_rtm.030324-2048) 175.00 KB (179,200 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\tapi32.dll
rtutils 5.2.3790.0 (srv03_rtm.030324-2048) 32.00 KB (32,768 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\rtutils.dll
winrnr 5.2.3790.0 (srv03_rtm.030324-2048) 15.00 KB (15,360 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\winrnr.dll
netman 5.2.3790.0 (srv03_rtm.030324-2048) 209.00 KB (214,016 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\netman.dll
mprapi 5.2.3790.0 (srv03_rtm.030324-2048) 81.00 KB (82,944 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\mprapi.dll
activeds 5.2.3790.0 (srv03_rtm.030324-2048) 189.00 KB (193,536
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\activeds.dll
adslldpc 5.2.3790.0 (srv03_rtm.030324-2048) 142.50 KB (145,920 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\adslldpc.dll

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rasppp 5.2.3790.0 (srv03_rtm.030324-2048) 195.00 KB (199,680 bytes)
3/25/2003 11:00 AM 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 5.2.3790.0 (srv03_rtm.030324-2048) 106.00 KB (108,544 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\raschap.dll
rastls 5.2.3790.0 (srv03_rtm.030324-2048) 155.00 KB (158,720 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\rastls.dll
cryptui 5.131.3790.0 (srv03_rtm.030324-2048) 473.50 KB (484,864 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\cryptui.dll
ipbootp 5.2.3790.0 (srv03_rtm.030324-2048) 34.50 KB (35,328 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\ipbootp.dll
rasdlg 5.2.3790.0 (srv03_rtm.030324-2048) 642.00 KB (657,408 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\rasdlg.dll
ncprov 5.2.3790.0 (srv03_rtm.030324-2048) 43.00 KB (44,032 bytes)
7/16/2003 3:46 PM Microsoft Corporation
c:\windows\system32\wbem\ncprov.dll
cryptsvc 5.2.3790.0 (srv03_rtm.030324-2048) 51.00 KB (52,224
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\cryptsvc.dll
certcli 5.2.3790.0 (srv03_rtm.030324-2048) 228.00 KB (233,472 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\certcli.dll
wbemcons 5.2.3790.0 (srv03_rtm.030324-2048) 69.00 KB (70,656
bytes) 7/16/2003 3:46 PM Microsoft Corporation
c:\windows\system32\wbem\wbemcons.dll
mmsrvc 4.4.4000 32.00 KB (32,768 bytes) 7/16/2003 3:50 PM
Microsoft Corporation c:\windows\system32\mmsrvc.exe
nmcom 4.4.4000 72.00 KB (73,728 bytes) 7/16/2003 3:50 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 4.4.4000 248.00 KB (253,952 bytes) 7/16/2003 3:50 PM
Microsoft Corporation c:\program files\netmeeting\mst120.dll

nmas 4.4.4000 216.00 KB (221,184 bytes) 7/16/2003 3:50 PM
Microsoft Corporation c:\program files\netmeeting\nmas.dll
nmasnt 4.4.4000 28.00 KB (28,672 bytes) 7/16/2003 3:50 PM
Microsoft Corporation c:\program files\netmeeting\nmasnt.dll

h323cc 4.4.4000 52.00 KB (53,248 bytes) 7/16/2003 3:50 PM
Microsoft Corporation c:\program files\netmeeting\h323cc.dll

callcont 4.4.4000 356.00 KB (364,544 bytes) 7/16/2003 3:50
PM Microsoft Corporation c:\program files\netmeeting\callcont.dll

nac 4.4.4000 208.00 KB (212,992 bytes) 7/16/2003 3:50 PM
Microsoft Corporation c:\program files\netmeeting\nac.dll
msacm32 5.2.3790.0 (srv03_rtm.030324-2048) 67.50 KB (69,120 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msacm32.dll

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msvfw32 5.2.3790.0 (srv03_rtm.030324-2048) 112.50 KB (115,200 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msvfw32.dll
dcap32 4.4.4000 40.00 KB (40,960 bytes) 7/16/2003 3:50 PM
Microsoft Corporation c:\program files\netmeeting\dcap32.dll

rundll32 5.2.3790.0 (srv03_rtm.030324-2048) 32.00 KB (32,768
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\rundll32.exe
msconf 4.4.4000 68.00 KB (69,632 bytes) 7/16/2003 3:50 PM
Microsoft Corporation c:\windows\system32\msconf.dll
termsrv 5.2.3790.0 (srv03_rtm.030324-2048) 216.50 KB (221,696 bytes)
7/16/2003 3:47 PM Microsoft Corporation
c:\windows\system32\termsrv.dll
icaapi 5.2.3790.0 (srv03_rtm.030324-2048) 10.50 KB (10,752 bytes)
7/16/2003 3:47 PM Microsoft Corporation
c:\windows\system32\icaapi.dll
mstlsapi 5.2.3790.0 (srv03_rtm.030324-2048) 104.50 KB (107,008
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\mstlsapi.dll
rdpwsx 5.2.3790.0 (srv03_rtm.030324-2048) 80.13 KB (82,056 bytes)
7/16/2003 3:47 PM Microsoft Corporation
c:\windows\system32\rdpwsx.dll
explorer 6.00.3790.0 (srv03_rtm.030324-2048) 1,008.50 KB
(1,032,704 bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\explorer.exe
browseui 6.00.3790.0 (srv03_rtm.030324-2048) 1.01 MB (1,057,280
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\browseui.dll
shdocvw 6.00.3790.0 (srv03_rtm.030324-2048) 1.33 MB (1,393,664 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\shdocvw.dll
apphelp 5.2.3790.0 (srv03_rtm.030324-2048) 122.00 KB (124,928 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\apphelp.dll
themeui 6.00.3790.0 (srv03_rtm.030324-2048) 360.50 KB (369,152 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\themeui.dll
msimg32 5.2.3790.0 (srv03_rtm.030324-2048) 4.50 KB (4,608 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\msimg32.dll
actxprxy 6.00.3790.0 (srv03_rtm.030324-2048) 95.00 KB (97,280
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\actxprxy.dll
urlmon 6.00.3790.0 (srv03_rtm.030324-2048) 501.50 KB (513,536 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\urlmon.dll
linkinfo 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\linkinfo.dll
ntshru 6.00.3790.0 (srv03_rtm.030324-2048) 136.00 KB (139,264 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\ntshru.dll
webcheck 6.00.3790.0 (srv03_rtm.030324-2048) 261.50 KB (267,776
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\webcheck.dll
stobject 5.2.3790.0 (srv03_rtm.030324-2048) 117.50 KB (120,320
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\stobject.dll

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batmeter 6.00.3790.0 (srv03_rtm.030324-2048) 28.50 KB (29,184
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\batmeter.dll
powrprof 6.00.3790.0 (srv03_rtm.030324-2048) 14.50 KB (14,848
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\powrprof.dll
printui 5.2.3790.0 (srv03_rtm.030324-2048) 536.50 KB (549,376 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\printui.dll
cfgmgr32 5.2.3790.0 (srv03_rtm.030324-2048) 17.50 KB (17,920
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\cfgmgr32.dll
drprov 5.2.3790.0 (srv03_rtm.030324-2048) 12.50 KB (12,800 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\drprov.dll
ntlanman 5.2.3790.0 (srv03_rtm.030324-2048) 41.00 KB (41,984
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\ntlanman.dll
netui0 5.2.3790.0 (srv03_rtm.030324-2048) 75.50 KB (77,312 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\netui0.dll
netui1 5.2.3790.0 (srv03_rtm.030324-2048) 184.00 KB (188,416 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\netui1.dll
davclnt 5.2.3790.0 (srv03_rtm.030324-2048) 23.50 KB (24,064 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\davclnt.dll
rhostsrv Not Available 54.50 KB (55,808 bytes) 7/16/2003 4:49
PM Not Available c:\rhost\rhostsrv.exe
tapisrv 5.2.3790.0 (srv03_rtm.030324-2048) 238.50 KB (244,224 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\tapisrv.dll
unimdm 5.2.3790.0 (srv03_rtm.030324-2048) 190.50 KB (195,072 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\unimdm.tsp
uniplat 5.2.3790.0 (srv03_rtm.030324-2048) 15.00 KB (15,360 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\uniplat.dll
kmddsp 5.2.3790.0 (srv03_rtm.030324-2048) 34.00 KB (34,816 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\kmddsp.tsp
ndptsp 5.2.3790.0 (srv03_rtm.030324-2048) 54.50 KB (55,808 bytes)
3/25/2003 11:00 AM 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 5.2.3790.0 (srv03_rtm.030324-2048) 250.00 KB (256,000 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\h323.tsp
hidphone 5.2.3790.0 (srv03_rtm.030324-2048) 28.00 KB (28,672
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\hidphone.tsp
hid 5.2.3790.0 (srv03_rtm.030324-2048) 17.50 KB (17,920 bytes)
3/24/2003 5:48 PM Microsoft Corporation
c:\windows\system32\hid.dll
dllhost 5.2.3790.0 (srv03_rtm.030324-2048) 5.50 KB (5,632 bytes)
3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\dllhost.exe

```

```

mtxoci 2001.12.4720.0 (srv03_rtm.030324-2048) 101.00 KB (103,424
bytes) 7/16/2003 3:47 PM Microsoft Corporation
c:\windows\system32\mtxoci.dll
txflog 2001.12.4720.0 (srv03_rtm.030324-2048) 92.50 KB (94,720
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\txflog.dll
xolehlp 2001.12.4720.0 (srv03_rtm.030324-2048) 8.50 KB (8,704 bytes)
7/16/2003 3:47 PM Microsoft Corporation
c:\windows\system32\xolehlp.dll
msdtcprx 2001.12.4720.0 (srv03_rtm.030324-2048) 427.50 KB
(437,760 bytes) 7/16/2003 3:47 PM Microsoft Corporation
c:\windows\system32\msdtcprx.dll
mtxclu 2001.12.4720.0 (srv03_rtm.030324-2048) 74.50 KB (76,288
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\mtxclu.dll
resutils 5.2.3790.0 (srv03_rtm.030324-2048) 59.00 KB (60,416
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\resutils.dll
mfc42u 6.05.3014.0 960.00 KB (983,040 bytes) 3/25/2003 11:00 AM
Microsoft Corporation c:\windows\system32\mfc42u.dll
catsrv 2001.12.4720.0 (srv03_rtm.030324-2048) 256.00 KB (262,144
bytes) 7/16/2003 3:47 PM Microsoft Corporation
c:\windows\system32\catsrv.dll
clbcatex 2001.12.4720.0 (srv03_rtm.030324-2048) 96.00 KB
(98,304 bytes) 7/16/2003 3:47 PM Microsoft Corporation
c:\windows\system32\clbcatex.dll
msinfo32 5.2.3790.0 (srv03_rtm.030324-2048) 40.50 KB (41,472
bytes) 7/16/2003 3:50 PM Microsoft Corporation c:\program
files\common files\microsoft shared\msinfo\msinfo32.exe
msinfo 5.2.3790.0 (srv03_rtm.030324-2048) 358.50 KB (367,104 bytes)
7/16/2003 3:50 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo.dll
comdlg32 6.00.3790.0 (srv03_rtm.030324-2048) 261.00 KB (267,264
bytes) 3/25/2003 11:00 AM Microsoft Corporation
c:\windows\system32\comdlg32.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 5.31.23.1218 406.00 KB (415,744 bytes) 3/25/2003
11:00 AM Microsoft Corporation c:\windows\system32\riched20.dll

```

[Services]

| Display Name | Name | State | Start Mode | Service Type | Path | Error |
|-----------------------------------|--|---------|-------------|------------------------|---|-----------|
| Control Start | Name | Tag ID | | | | |
| Alerter | Alerter | Stopped | Disabled | Share Process | c:\windows\system32\svchost.exe -k localservice | Normal NT |
| AUTHORITY\LocalService | 0 | | | | | |
| Application Layer Gateway Service | | ALG | Stopped | Manual | Own Process | |
| | c:\windows\system32\alg.exe | Normal | NT | AUTHORITY\LocalService | | |
| Application Management AppMgmt | | Stopped | Manual | Share Process | | |
| | c:\windows\system32\svchost.exe -k netsvcs | Normal | LocalSystem | | | |
| Windows Audio | AudioSrv | Stopped | Disabled | Share Process | | |
| | c:\windows\system32\svchost.exe -k netsvcs | Normal | LocalSystem | | | |

```

Background Intelligent Transfer Service BITS Stopped Manual Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Computer Browser Browser Running Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Indexing Service CiSvc Stopped Disabled Share Process
c:\windows\system32\cisvc.exe Normal LocalSystem 0
ClipBook ClipSrv Stopped Disabled Own Process
c:\windows\system32\clipsrv.exe Normal LocalSystem 0

COM+ System Application COMSysApp Running Manual Own Process
c:\windows\system32\dlhhost.exe /processid:{02d4b3f1-fd88-11d1-
960d-00805fc79235} Normal LocalSystem 0
Cryptographic Services CryptSvc Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Distributed File System Dfs Stopped Disabled Own Process
c:\windows\system32\dfssvc.exe Normal LocalSystem 0

DHCP Client Dhcp Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k networkservice Normal NT
AUTHORITY\NetworkService 0
Logical Disk Manager Administrative Service dmadm Stopped Manual Share
Process c:\windows\system32\dmadm.exe /com Normal LocalSystem 0

Logical Disk Manager 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
Error Reporting Service ERSvc Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k winerr Ignore LocalSystem
0
Event Log Eventlog Running Auto Share Process
c:\windows\system32\services.exe Normal LocalSystem 0

COM+ Event System EventSystem Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
cLAN Connection Manager GniConMgr Running Auto Own Process
c:\windows\system32\gnconmgr.exe Normal LocalSystem 0

Help and Support helpsvc Stopped 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
IIS Admin Service IISADMIN Stopped Manual Share Process
c:\windows\system32\inetrv\inetinfo.exe Normal LocalSystem
0
IMAPI CD-Burning COM Service ImapiService Stopped Disabled Own
Process c:\windows\system32\imapi.exe Normal LocalSystem 0

```

```

Intersite Messaging IsmServ Stopped Disabled Own Process
c:\windows\system32\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 Disabled 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 Manual 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 Disabled 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 Connection Manager | RasAuto | Stopped | Manual | Share Process | Performance Logs and Alerts | SysmonLog | Stopped | Manual | Own Process |
| c:\windows\system32\svchost.exe -k netsvcs | | 0 | Normal | LocalSystem | c:\windows\system32\smlogsvc.exe | | Normal | NT | |
| Remote Access Connection Manager | RasMan | Running | Manual | Share Process | Authority\NetworkService | | 0 | | |
| c:\windows\system32\svchost.exe -k netsvcs | | 0 | Normal | LocalSystem | Telephony | TapiSrv | Running | Manual | Share Process |
| c:\windows\system32\svchost.exe | | 0 | | | c:\windows\system32\svchost.exe -k tapisrv | | Normal | LocalSystem | |
| Remote Desktop Help Session Manager | RDSSessMgr | Stopped | Manual | Own Process | Terminal Services | TermService | Running | Manual | Share Process |
| c:\windows\system32\sessmgr.exe | | 0 | Normal | LocalSystem | c:\windows\system32\svchost.exe -k termsvcs | | Normal | LocalSystem | |
| Routing and Remote Access | RemoteAccess | Stopped | Disabled | Share Process | Themes | Themes | Stopped | Disabled | Share Process |
| c:\windows\system32\svchost.exe -k netsvcs | | 0 | Normal | LocalSystem | c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | |
| Remote Registry | RemoteRegistry | Running | Auto | Share Process | Telnet | TlntSvr | Stopped | Disabled | Own Process |
| c:\windows\system32\svchost.exe -k regsvc | | 0 | Normal | NT | c:\windows\system32\tlntsvr.exe | | Normal | NT | |
| AUTHORITY\LocalService | | 0 | | | AUTHORITY\LocalService | | 0 | | |
| Remote Procedure Call (RPC) Locator | RpcLocator | Stopped | Manual | Own Process | Distributed Link Tracking Server | TrkSvr | Stopped | Disabled | Share Process |
| c:\windows\system32\locator.exe | | 0 | Normal | NT | c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | |
| AUTHORITY\NetworkService | | 0 | | | Distributed Link Tracking Client | TrkWks | Stopped | Disabled | Share Process |
| Remote Procedure Call (RPC) | RpcSs | Running | Auto | Share Process | c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | |
| c:\windows\system32\svchost.exe -k rpcss | | 0 | Normal | LocalSystem | Terminal Services Session Directory | Tssdis | Stopped | Disabled | Own Process |
| Resultant Set of Policy Provider | RSOPProv | Stopped | Manual | Share Process | c:\windows\system32\tssdis.exe | | Normal | LocalSystem | 0 |
| c:\windows\system32\rsopprov.exe | | 0 | Normal | LocalSystem | Upload Manager | uploadmgr | Stopped | Manual | Share Process |
| Special Administration Console Helper | sacsrv | Stopped | Manual | Share Process | c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | |
| c:\windows\system32\svchost.exe -k netsvcs | | 0 | Normal | LocalSystem | Uninterruptible Power Supply | UPS | Stopped | Manual | Own Process |
| Security Accounts Manager | SamSs | Running | Auto | Share Process | c:\windows\system32\ups.exe | | Normal | NT | AUTHORITY\LocalService |
| c:\windows\system32\lsass.exe | | 0 | Normal | LocalSystem | Virtual Disk Service | vds | Stopped | Manual | Own Process |
| Smart Card | SCardSvr | Stopped | Manual | Share Process | c:\windows\system32\vds.exe | | Normal | LocalSystem | 0 |
| c:\windows\system32\scardsvr.exe | | 0 | Ignore | NT | Volume Shadow Copy | VSS | Stopped | Manual | Own Process |
| AUTHORITY\LocalService | | 0 | | | c:\windows\system32\vssvc.exe | | Normal | LocalSystem | 0 |
| Task Scheduler | Schedule | Stopped | Manual | Share Process | Windows Time | W32Time | Stopped | Disabled | Share Process |
| c:\windows\system32\svchost.exe -k netsvcs | | 0 | Normal | LocalSystem | c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | |
| Secondary Logon | seclogon | Running | Auto | Share Process | World Wide Web Publishing Service | W3SVC | Stopped | Manual | Share Process |
| c:\windows\system32\svchost.exe -k netsvcs | | 0 | Ignore | LocalSystem | c:\windows\system32\svchost.exe -k iissvcs | | Normal | LocalSystem | |
| System Event Notification | SENS | Running | Auto | Share Process | WebClient | WebClient | Stopped | Disabled | Share Process |
| c:\windows\system32\svchost.exe -k netsvcs | | 0 | Normal | LocalSystem | c:\windows\system32\svchost.exe -k localservice | | Normal | NT | |
| Internet Connection Firewall (ICF) / Internet Connection Sharing (ICS) | SharedAccess | Stopped | Disabled | Share Process | AUTHORITY\LocalService | | 0 | | |
| c:\windows\system32\svchost.exe -k netsvcs | | 0 | Normal | LocalSystem | WinHTTP Web Proxy Auto-Discovery Service | WinHttpAutoProxySvc | Stopped | Manual | Share Process |
| Shell Hardware Detection | ShellHWDetection | Running | Auto | Share Process | localservice | Normal | NT | AUTHORITY\LocalService | 0 |
| c:\windows\system32\svchost.exe -k netsvcs | | 0 | Ignore | LocalSystem | Windows Management Instrumentation | winmgmt | Running | Auto | Share Process |
| Print Spooler | Spooler | Stopped | Manual | Own Process | c:\windows\system32\svchost.exe -k netsvcs | | Ignore | LocalSystem | |
| c:\windows\system32\spoolsv.exe | | 0 | Normal | LocalSystem | Portable Media Serial Number Service | WmdmPmSN | Stopped | Manual | Share Process |
| Windows Image Acquisition (WIA) | stisvc | Stopped | Disabled | Share Process | c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | |
| c:\windows\system32\svchost.exe -k imgsvc | | 0 | Normal | NT | Windows Management Instrumentation Driver Extensions | Wmi | Stopped | Manual | Share Process |
| AUTHORITY\LocalService | | 0 | | | c:\windows\system32\svchost.exe -k netsvcs | | Normal | LocalSystem | 0 |
| Microsoft Software Shadow Copy Provider | swprv | Stopped | Manual | Own Process | WMI Performance Adapter | WmiApSrv | Stopped | Manual | Own Process |
| c:\windows\system32\svchost.exe -k swprv | | 0 | Normal | LocalSystem | c:\windows\system32\wbem\wmiaprsrv.exe | | Normal | LocalSystem | 0 |

```
Automatic Updates      wuauserv      Running Auto      Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Wireless Configuration WZCSVC      Stopped Disabled  Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
```

[Program Groups]

```
Group Name      Name      User Name
Accessories     Default User:Accessories      Default User
Accessories\Accessibility      Default User:Accessories\Accessibility
Default User
Accessories\Entertainment      Default User:Accessories\Entertainment
Default User
Startup Default User:Startup    Default User
Accessories     All Users:Accessories All Users
Accessories\Accessibility      All Users:Accessories\Accessibility All
Users
Accessories\Communications      All Users:Accessories\Communications All
Users
Accessories\Entertainment      All Users:Accessories\Entertainment All
Users
Accessories\System Tools        All Users:Accessories\System Tools All
Users
Administrative Tools All Users:Administrative Tools All Users
Microsoft SQL Server All Users:Microsoft SQL Server All Users
```

```
Startup All Users:Startup All Users
Accessories NT AUTHORITY\SYSTEM:Accessories NT AUTHORITY\SYSTEM
```

```
Accessories\Accessibility NT
AUTHORITY\SYSTEM:Accessories\Accessibility NT AUTHORITY\SYSTEM
Accessories\Entertainment NT
AUTHORITY\SYSTEM:Accessories\Entertainment NT AUTHORITY\SYSTEM
Startup NT AUTHORITY\SYSTEM:Startup NT AUTHORITY\SYSTEM
Accessories CLIENT8\Administrator:Accessories CLIENT8\Administrator
```

```
Accessories\Accessibility
CLIENT8\Administrator:Accessories\Accessibility
CLIENT8\Administrator
Accessories\Entertainment
CLIENT8\Administrator:Accessories\Entertainment
CLIENT8\Administrator
Administrative Tools CLIENT8\Administrator:Administrative Tools
CLIENT8\Administrator
QLogic Corporation CLIENT8\Administrator:QLogic Corporation
CLIENT8\Administrator
QLogic Corporation\SANblade Control VIX CLIENT8\Administrator:QLogic
Corporation\SANblade Control VIX CLIENT8\Administrator
Startup CLIENT8\Administrator:Startup CLIENT8\Administrator
```

[Startup Programs]

```
Program Command User Name      Location      Startup
desktop desktop.ini NT AUTHORITY\SYSTEM Startup
desktop desktop.ini CLIENT8\Administrator Startup
desktop desktop.ini .DEFAULT Startup
```

```
desktop desktop.ini All Users Common Startup
rhostsvr.exe c:\rhost\rhostsvr.exe -d\rhost -crhosthdlr.exe All
Users Common Startup
ShutdownEventCheck %systemroot%\system32\dumpprep 0 -s 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"
Windows Media Services DRM Storage object Not Available
Bitmap Image mspaint.exe
```

[Windows Error Reporting]

```
Time Type Details
```

[Internet Settings]

[Internet Explorer]

[Following are sub-categories of this main category]
[Summary]

```
Item Value
Version 6.0.3790.0
Build 63790
Application Path C:\Program Files\Internet Explorer
Language English (United States)
Active Printer Not Available
```

```
Cipher Strength 128-bit
Content Advisor Disabled
IEAK Install No
```

[File Versions]

```
File Version Size Date Path Company
actxprxy.dll 6.0.3790.0 95 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
advpack.dll 6.0.3790.0 94 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
asctrls.ocx 6.0.3790.0 90 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
browaselc.dll 6.0.3790.0 62 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
browseui.dll 6.0.3790.0 1,033 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
cdfview.dll 6.0.3790.0 144 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
```

```

comctl32.dll 5.82.3790.0 561 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
dxttrans.dll 6.3.3790.0 198 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
dxtmsft.dll 6.3.3790.0 344 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iecont.dll <File Missing> Not Available Not Available Not Available
Not Available
iecontlc.dll <File Missing> Not Available Not Available Not Available
Not Available
iedkcs32.dll 16.0.3790.0 300 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iepeers.dll 6.0.3790.0 230 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iesetup.dll 6.0.3790.0 59 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
ieuinit.inf Not Available 20 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Not Available
iexplore.exe 6.0.3790.0 90 KB 3/25/2003 11:00:00 AM C:\Program
Files\Internet Explorer Microsoft Corporation
imgutil.dll 5.2.3790.0 35 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inetcpl.cpl 6.0.3790.0 303 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inetcplc.dll 6.0.3790.0 109 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inseng.dll 6.0.3790.0 72 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mlang.dll 6.0.3790.0 570 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msencode.dll 2002.10.4.0 112 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Not Available
mshta.exe 6.0.3790.0 26 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll 6.0.3790.0 2,848 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.tlb 6.0.3790.0 1,319 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.ed.dll 6.0.3790.0 444 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtmlr.dll 6.0.3790.0 55 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msident.dll 6.0.3790.0 47 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msidntld.dll 6.0.3790.0 15 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msieftp.dll 6.0.3790.0 230 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msrating.dll 6.0.3790.0 132 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mstime.dll 6.0.3790.0 491 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
occache.dll 6.0.3790.0 89 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
proctexe.ocx 6.3.3790.0 78 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Intel Corporation
sendmail.dll 6.0.3790.0 52 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation

```

```

shdoclc.dll 6.0.3790.0 589 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdocvw.dll 6.0.3790.0 1,361 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shfolder.dll 6.0.3790.0 23 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shlwapi.dll 6.0.3790.0 281 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
tdc.ocx 1.3.0.3130 58 KB 3/25/2003 11:00:00 AM C:\WINDOWS\system32
Microsoft Corporation
url.dll 6.0.3790.0 36 KB 3/25/2003 11:00:00 AM C:\WINDOWS\system32
Microsoft Corporation
urlmon.dll 6.0.3790.0 502 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
webcheck.dll 6.0.3790.0 262 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
wininet.dll 6.0.3790.0 609 KB 3/25/2003 11:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation

```

[Connectivity]

```

Item Value
Connection Preference Never dial

```

LAN Settings

```

AutoConfigProxy Not Available
AutoProxyDetectMode Disabled
AutoConfigURL
Proxy Disabled
ProxyServer
ProxyOverride

```

[Cache]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Page Refresh Type Automatic
Temporary Internet Files Folder C:\Documents and
Settings\NetworkService\Local Settings\Temporary Internet Files
Total Disk Space Not Available
Available Disk Space Not Available
Maximum Cache Size Not Available
Available Cache Size Not Available

```

[List of Objects]

```

Program File Status CodeBase
No cached object information available

```

[Content]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Content Advisor Disabled

```

[Personal Certificates]

Issued To Issued By Validity Signature Algorithm
No personal certificate information available

[Other People Certificates]

Issued To Issued By Validity Signature Algorithm
No other people certificate information available

[Publishers]

Name
No publisher information available

[Security]

Zone Security Level
My Computer Custom
Local intranet Medium-low
Trusted sites Medium
Internet High
Restricted sites High

Client Hyperthreading Information (Common to 8 clients)

C:\DetectHyperthreading>detecthyperthreading
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.

C:\DetectHyperthreading>

Windows 2003 IP Configuration Information

(Common to 8 clients except for Host Name, Physical Address, and IP Address)

Windows IP Configuration

Host Name : client8
Primary Dns Suffix :
Node Type : Unknown
IP Routing Enabled. : No

WINS Proxy Enabled. : No

Ethernet adapter Admin:

Connection-specific DNS Suffix . :
Description : Broadcom NetXtreme Gigabit Ethernet
#3
Physical Address. : 00-06-5B-FE-80-C4
DHCP Enabled. : No
IP Address. : 192.168.91.8
Subnet Mask : 255.255.255.0
Default Gateway :
NetBIOS over Tcpip. : Disabled

Ethernet adapter RTE:

Connection-specific DNS Suffix . :
Description : Broadcom NetXtreme Gigabit Ethernet
#4
Physical Address. : 00-06-5B-FE-80-C5
DHCP Enabled. : No
IP Address. : 192.8.1.1
Subnet Mask : 255.255.255.0
Default Gateway :
NetBIOS over Tcpip. : Disabled

Volume in drive C has no label.
Volume Serial Number is 7433-AD41

Directory of C:\inetpub\wwwroot

11/11/2003 07:02 PM 274,511 tpcc.dll
1 File(s) 274,511 bytes
0 Dir(s) 13,167,804,416 bytes free
Volume in drive C has no label.
Volume Serial Number is 7433-AD41

Directory of C:\inetpub\wwwroot

11/11/2003 07:00 PM 295,002 tpcc_com_all.dll
1 File(s) 295,002 bytes

0 Dir(s) 13,167,804,416 bytes free
Volume in drive C has no label.
Volume Serial Number is 7433-AD41

Directory of C:\inetpub\wwwroot

```
11/11/2003 06:59 PM          102,488 tpcc_com_ps.dll
              1 File(s)          102,488 bytes
              0 Dir(s) 13,167,804,416 bytes free
```

Component Services Configuration

Component Services Configuration

COM+ Component TPCC.AllTxns Settings:

Transactions not supported
Enable object pooling
Minimum pool size 76
Maximum pool size 76
Creation timeout 120,000
Enable object construction
Enable just in time activation
Concurrency required

CurrentControlSet\Services\w3svc

\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 0x00070061 0x00000001 0x00000001 0x00000001 0x00000001
ASP
NOTE = This is for backward compatibility only.
Parameters
Parameters
MajorVersion = REG_DWORD 0x00000005
MinorVersion = REG_DWORD 0x00000000
InstallPath = C:\WINNT\System32\inetpub
AccessDeniedMessage = Error: Access is Denied.
ServiceDll = REG_EXPAND_SZ
C:\WINDOWS\system32\inetpub\iisw3adm.dll
CertMapList = C:\WINNT\System32\inetpub\iisw3adm.dll
Filter DLLs =
LogFileDirectory = C:\WINNT\System32\LogFiles
AcceptExOutStanding = REG_DWORD 0x00000028

ADCLaunch
AdvancedDataFactory
RDSDataFactory
Script Map
Virtual Roots
/ = c:\inetpub\wwwroot,,207
/Scripts = c:\inetpub\scripts,,204
/IISHelp = c:\winnt\help\iishelp,,201
/IISAdmin = C:\WINNT\System32\inetpub\iisadmin,,201
/IISamples = c:\inetpub\iissamples,,201
/MSADC = c:\program files\common files\system\msadc,,205
/Printers = C:\WINNT\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 = 5082 5256
Library Validation Code = REG_BINARY 0x00000010 0xc18a727c
0x01c026d2 0x000003d10 0x00000000
WbemAdapFileSignature = REG_BINARY 0x00000010 0x2c6ce339
0xf559beb4 0xd5c47c17 0x1af7dc2f
WbemAdapFileTime = REG_BINARY 0x00000008 0x964e6000 0x01bf40aa
WbemAdapFileSize = REG_DWORD 0x000003d10
WbemAdapStatus = REG_DWORD 0x00000000

Security [17 1]

Security = REG_BINARY 0x000000b8 0x80140001 0x000000a0 0x000000ac
0x00000014 0x00000030 0x001c0002 0x00000001 0x00148002 0x000f01ff
0x00000101 0x01000000 0x00000000 0x00070002 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

Internet Information Server Registry Parameters

\registry\machine\system\currentcontrolset\services\inetinfo
Parameters

ListenBackLog = REG_DWORD 0x00000019
MaxConnections = REG_DWORD 0x0000ffff
BandwidthLevel = REG_DWORD 0xffffffff
ThreadTimeout = REG_DWORD 0x00015180
DisableMemoryCache = REG_DWORD 0x00000001
MemoryCacheSize = REG_DWORD 0x00000000

```

PoolThreadLimit = REG_DWORD 0x00000096
ObjectCacheTTL = REG_DWORD 0xffffffff
Performance
Library = infoctrs.dll
Open = OpenINFOPerformanceData
Close = CloseINFOPerformanceData
Collect = CollectINFOPerformanceData
PerfIniFile = infoctrs.ini
Last Counter = REG_DWORD 0x000013d8
Last Help = REG_DWORD 0x000013d9
First Counter = REG_DWORD 0x00001398
First Help = REG_DWORD 0x00001399
Object List = 5016
Library Validation Code = REG_BINARY 0x00000010 0x2d24d700
0x01c34fe5 0x00002000 0x00000000
WbemAdapFileSignature = REG_BINARY 0x00000010 0xe7d3c34c
0xe056ca44 0x14a0e8f3 0x0ffb2652
WbemAdapFileTime = REG_BINARY 0x00000008 0x2c2ce270 0x01c34fe5
WbemAdapFileSize = REG_DWORD 0x00002000
WbemAdapStatus = REG_DWORD 0x00000000

```

MSSQL Server Registry Parameters

```

\registry\machine\software\microsoft\microsoft\sqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:mv-tpcc-cassin,1421,0

\registry\machine\software\microsoft\microsoft\sqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:mv-tpcc-cassin,1422,0

\registry\machine\software\microsoft\microsoft\sqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:mv-tpcc-cassin,1423,0

\registry\machine\software\microsoft\microsoft\sqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:mv-tpcc-cassin,1424,0

\registry\machine\software\microsoft\microsoft\sqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:mv-tpcc-cassin,1425,0

\registry\machine\software\microsoft\microsoft\sqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:mv-tpcc-cassin,1426,0

\registry\machine\software\microsoft\microsoft\sqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:mv-tpcc-cassin,1427,0

\registry\machine\software\microsoft\microsoft\sqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:mv-tpcc-cassin,1428,0

```

Start World Wide Web Server Registry Parameters

```

\registry\machine\system\currentcontrolset\services\w3svc
Type = REG_DWORD 0x00000020
Start = REG_DWORD 0x00000003
ErrorControl = REG_DWORD 0x00000001
ImagePath = REG_EXPAND_SZ C:\WINNT\System32\inetrv\inetinfo.exe
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.
ASP
NOTE = This is for backward compatibility only.
Parameters
Parameters
MajorVersion = REG_DWORD 0x00000005
MinorVersion = REG_DWORD 0x00000000
InstallPath = C:\WINNT\System32\inetrv
CertMapList = C:\WINNT\System32\inetrv\iisrmap.dll
AccessDeniedMessage = Error: Access is Denied.
Filter DLLs =
LogFileDirectory = C:\WINNT\System32\LogFiles
AcceptExOutstanding = REG_DWORD 0x00000028
ADCLaunch
AdvancedDataFactory
RDSDataFactory
Script Map
Virtual Roots
/ = c:\inetpub\wwwroot,,207
/Scripts = c:\inetpub\scripts,,204
/IISShelp = c:\winnt\help\iisshelp,,201
/IISAdmin = C:\WINNT\System32\inetrv\iisadmin,,201
/IISSamples = c:\inetpub\iissamples,,201
/MSADC = c:\program files\common files\system\msadc,,205
/Printers = C:\WINNT\web\printers,,201
Performance
Library = w3ctrs.dll
Open = OpenW3PerformanceData
Close = CloseW3PerformanceData
Collect = CollectW3PerformanceData
WbemAdapFileTime = REG_BINARY 0x00000008 0x1160d800 0x01c231bb
WbemAdapFileSize = REG_DWORD 0x00001d10
WbemAdapStatus = REG_DWORD 0x00000000
Last Counter = REG_DWORD 0x000008e6
Last Help = REG_DWORD 0x000008e7
First Counter = REG_DWORD 0x00000844
First Help = REG_DWORD 0x00000845
Library Validation Code = REG_BINARY 0x00000010 0xc18a727c
0x01c026d2 0x000003d10 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
```

```
SERVERNAME = DBSERVER
DATABASE = tpcc
```

TPCC Application Settings

```
\registry\machine\software\unisis
TPCC
MAXTERMS = 60000
DELIVERYTHREADS = 20
```

Appendix D - RTE Code

Admin Environment

```
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 1200
INITTSCALE 100
INITRWID 1,24700
INITFIXEDWID 1
INITCCLAST 208
INITCCID 208
INITCITEMID 208
//
//Configuration Driver 1
//
1 INITIPADDR 192.168.93.1
1 INITIISADDR 192.1.1.1
1 INITIISPORT 80
```

```
1 INITBROWSERS 1010
1 INITMYWID 1,101
//
//Configuration Driver 2
//
2 INITIPADDR 192.168.93.1
2 INITIISADDR 192.1.1.1
2 INITIISPORT 80
2 INITBROWSERS 1010
2 INITMYWID 102,202
//
//Configuration Driver 3
//
3 INITIPADDR 192.168.93.1
3 INITIISADDR 192.1.1.1
3 INITIISPORT 80
3 INITBROWSERS 1010
3 INITMYWID 203,303
//
//Configuration Driver 4
//
4 INITIPADDR 192.168.93.1
4 INITIISADDR 192.1.1.1
4 INITIISPORT 80
4 INITBROWSERS 1010
4 INITMYWID 304,404
//
//Configuration Driver 5
//
5 INITIPADDR 192.168.93.1
5 INITIISADDR 192.1.1.1
5 INITIISPORT 80
5 INITBROWSERS 1010
5 INITMYWID 405,505
//
//Configuration Driver 6
//
6 INITIPADDR 192.168.93.1
6 INITIISADDR 192.1.1.1
6 INITIISPORT 80
6 INITBROWSERS 1010
6 INITMYWID 506,606
//
//Configuration Driver 7
//
7 INITIPADDR 192.168.93.1
7 INITIISADDR 192.1.1.1
7 INITIISPORT 80
7 INITBROWSERS 1010
7 INITMYWID 607,707
//
//Configuration Driver 8
//
8 INITIPADDR 192.168.93.1
```

```

8 INITIISADDR 192.1.1.1
8 INITIISPORT 80
8 INITBROWSERS 1010
8 INITMYWID 708,808
//
//Configuration Driver 9
//
9 INITIPADDR 192.168.93.1
9 INITIISADDR 192.1.1.1
9 INITIISPORT 80
9 INITBROWSERS 1010
9 INITMYWID 809,909
//
//Configuration Driver 10
//
10 INITIPADDR 192.168.93.1
10 INITIISADDR 192.1.1.1
10 INITIISPORT 80
10 INITBROWSERS 1010
10 INITMYWID 910,1010
//
//Configuration Driver 11
//
11 INITIPADDR 192.168.93.1
11 INITIISADDR 192.1.1.1
11 INITIISPORT 80
11 INITBROWSERS 1010
11 INITMYWID 1011,1111
//
//Configuration Driver 12
//
12 INITIPADDR 192.168.93.1
12 INITIISADDR 192.1.1.1
12 INITIISPORT 80
12 INITBROWSERS 1010
12 INITMYWID 1112,1212
//
//Configuration Driver 13
//
13 INITIPADDR 192.168.93.1
13 INITIISADDR 192.1.1.1
13 INITIISPORT 80
13 INITBROWSERS 1010
13 INITMYWID 1213,1313
//
//Configuration Driver 14
//
14 INITIPADDR 192.168.93.1
14 INITIISADDR 192.1.1.1
14 INITIISPORT 80
14 INITBROWSERS 1010
14 INITMYWID 1314,1414
//
//Configuration Driver 15
//
15 INITIPADDR 192.168.93.1
15 INITIISADDR 192.1.1.1
15 INITIISPORT 80
15 INITBROWSERS 1010

```

```

15 INITMYWID 1415,1515
//
//Configuration Driver 16
//
16 INITIPADDR 192.168.93.1
16 INITIISADDR 192.1.1.1
16 INITIISPORT 80
16 INITBROWSERS 1010
16 INITMYWID 1516,1616
//
//Configuration Driver 17
//
17 INITIPADDR 192.168.93.1
17 INITIISADDR 192.1.1.1
17 INITIISPORT 80
17 INITBROWSERS 1010
17 INITMYWID 1617,1717
//
//Configuration Driver 18
//
18 INITIPADDR 192.168.93.1
18 INITIISADDR 192.1.1.1
18 INITIISPORT 80
18 INITBROWSERS 1010
18 INITMYWID 1718,1818
//
//Configuration Driver 19
//
19 INITIPADDR 192.168.93.1
19 INITIISADDR 192.1.1.1
19 INITIISPORT 80
19 INITBROWSERS 1010
19 INITMYWID 1819,1919
//
//Configuration Driver 20
//
20 INITIPADDR 192.168.93.1
20 INITIISADDR 192.1.1.1
20 INITIISPORT 80
20 INITBROWSERS 1010
20 INITMYWID 1920,2020
//
//Configuration Driver 21
//
21 INITIPADDR 192.168.93.1
21 INITIISADDR 192.1.1.1
21 INITIISPORT 80
21 INITBROWSERS 1010
21 INITMYWID 2021,2121
//
//Configuration Driver 22
//
22 INITIPADDR 192.168.93.1
22 INITIISADDR 192.1.1.1
22 INITIISPORT 80
22 INITBROWSERS 1010
22 INITMYWID 2122,2222
//
//Configuration Driver 23

```

```

//
23 INITIPADDR 192.168.93.1
23 INITIISADDR 192.1.1.1
23 INITIISPORT 80
23 INITBROWSERS 1010
23 INITMYWID 2223,2323
//
//Configuration Driver 24
//
24 INITIPADDR 192.168.93.1
24 INITIISADDR 192.1.1.1
24 INITIISPORT 80
24 INITBROWSERS 1010
24 INITMYWID 2324,2424
//
//Configuration Driver 25
//
25 INITIPADDR 192.168.93.1
25 INITIISADDR 192.1.1.1
25 INITIISPORT 80
25 INITBROWSERS 1010
25 INITMYWID 2425,2525
//
//Configuration Driver 26
//
26 INITIPADDR 192.168.93.1
26 INITIISADDR 192.1.1.1
26 INITIISPORT 80
26 INITBROWSERS 1010
26 INITMYWID 2526,2626
//
//Configuration Driver 27
//
27 INITIPADDR 192.168.93.1
27 INITIISADDR 192.1.1.1
27 INITIISPORT 80
27 INITBROWSERS 1010
27 INITMYWID 2627,2727
//
//Configuration Driver 28
//
28 INITIPADDR 192.168.93.1
28 INITIISADDR 192.1.1.1
28 INITIISPORT 80
28 INITBROWSERS 1010
28 INITMYWID 2728,2828
//
//Configuration Driver 29
//
29 INITIPADDR 192.168.93.1
29 INITIISADDR 192.1.1.1
29 INITIISPORT 80
29 INITBROWSERS 1010
29 INITMYWID 2829,2929
//
//Configuration Driver 30
//
30 INITIPADDR 192.168.93.1
30 INITIISADDR 192.1.1.1

```

```

30 INITIISPORT 80
30 INITBROWSERS 1010
30 INITMYWID 2930,3030
//
//Configuration Driver 31
//
31 INITIPADDR 192.168.93.2
31 INITIISADDR 192.2.1.1
31 INITIISPORT 80
31 INITBROWSERS 1060
31 INITMYWID 3031,3136
//
//Configuration Driver 32
//
32 INITIPADDR 192.168.93.2
32 INITIISADDR 192.2.1.1
32 INITIISPORT 80
32 INITBROWSERS 1060
32 INITMYWID 3137,3242
//
//Configuration Driver 33
//
33 INITIPADDR 192.168.93.2
33 INITIISADDR 192.2.1.1
33 INITIISPORT 80
33 INITBROWSERS 1060
33 INITMYWID 3243,3348
//
//Configuration Driver 34
//
34 INITIPADDR 192.168.93.2
34 INITIISADDR 192.2.1.1
34 INITIISPORT 80
34 INITBROWSERS 1060
34 INITMYWID 3349,3454
//
//Configuration Driver 35
//
35 INITIPADDR 192.168.93.2
35 INITIISADDR 192.2.1.1
35 INITIISPORT 80
35 INITBROWSERS 1060
35 INITMYWID 3455,3560
//
//Configuration Driver 36
//
36 INITIPADDR 192.168.93.2
36 INITIISADDR 192.2.1.1
36 INITIISPORT 80
36 INITBROWSERS 1060
36 INITMYWID 3561,3666
//
//Configuration Driver 37
//
37 INITIPADDR 192.168.93.2
37 INITIISADDR 192.2.1.1
37 INITIISPORT 80
37 INITBROWSERS 1060
37 INITMYWID 3667,3772

```

```
//  
//Configuration Driver 38  
//  
38 INITIPADDR 192.168.93.2  
38 INITIISADDR 192.2.1.1  
38 INITIISPORT 80  
38 INITBROWSERS 1060  
38 INITMYWID 3773,3878  
//  
//Configuration Driver 39  
//  
39 INITIPADDR 192.168.93.2  
39 INITIISADDR 192.2.1.1  
39 INITIISPORT 80  
39 INITBROWSERS 1060  
39 INITMYWID 3879,3984  
//  
//Configuration Driver 40  
//  
40 INITIPADDR 192.168.93.2  
40 INITIISADDR 192.2.1.1  
40 INITIISPORT 80  
40 INITBROWSERS 1060  
40 INITMYWID 3985,4090  
//  
//Configuration Driver 41  
//  
41 INITIPADDR 192.168.93.2  
41 INITIISADDR 192.2.1.1  
41 INITIISPORT 80  
41 INITBROWSERS 1060  
41 INITMYWID 4091,4196  
//  
//Configuration Driver 42  
//  
42 INITIPADDR 192.168.93.2  
42 INITIISADDR 192.2.1.1  
42 INITIISPORT 80  
42 INITBROWSERS 1060  
42 INITMYWID 4197,4302  
//  
//Configuration Driver 43  
//  
43 INITIPADDR 192.168.93.2  
43 INITIISADDR 192.2.1.1  
43 INITIISPORT 80  
43 INITBROWSERS 1060  
43 INITMYWID 4303,4408  
//  
//Configuration Driver 44  
//  
44 INITIPADDR 192.168.93.2  
44 INITIISADDR 192.2.1.1  
44 INITIISPORT 80  
44 INITBROWSERS 1060  
44 INITMYWID 4409,4514  
//  
//Configuration Driver 45  
//
```

```
45 INITIPADDR 192.168.93.2  
45 INITIISADDR 192.2.1.1  
45 INITIISPORT 80  
45 INITBROWSERS 1060  
45 INITMYWID 4515,4620  
//  
//Configuration Driver 46  
//  
46 INITIPADDR 192.168.93.2  
46 INITIISADDR 192.2.1.1  
46 INITIISPORT 80  
46 INITBROWSERS 1060  
46 INITMYWID 4621,4726  
//  
//Configuration Driver 47  
//  
47 INITIPADDR 192.168.93.2  
47 INITIISADDR 192.2.1.1  
47 INITIISPORT 80  
47 INITBROWSERS 1060  
47 INITMYWID 4727,4832  
//  
//Configuration Driver 48  
//  
48 INITIPADDR 192.168.93.2  
48 INITIISADDR 192.2.1.1  
48 INITIISPORT 80  
48 INITBROWSERS 1060  
48 INITMYWID 4833,4938  
//  
//Configuration Driver 49  
//  
49 INITIPADDR 192.168.93.2  
49 INITIISADDR 192.2.1.1  
49 INITIISPORT 80  
49 INITBROWSERS 1060  
49 INITMYWID 4939,5044  
//  
//Configuration Driver 50  
//  
50 INITIPADDR 192.168.93.2  
50 INITIISADDR 192.2.1.1  
50 INITIISPORT 80  
50 INITBROWSERS 1060  
50 INITMYWID 5045,5150  
//  
//Configuration Driver 51  
//  
51 INITIPADDR 192.168.93.2  
51 INITIISADDR 192.2.1.1  
51 INITIISPORT 80  
51 INITBROWSERS 1060  
51 INITMYWID 5151,5256  
//  
//Configuration Driver 52  
//  
52 INITIPADDR 192.168.93.2  
52 INITIISADDR 192.2.1.1  
52 INITIISPORT 80
```

```
52 INITBROWSERS 1060
52 INITMYWID 5257,5362
//
//Configuration Driver 53
//
53 INITIPADDR 192.168.93.2
53 INITIISADDR 192.2.1.1
53 INITIISPORT 80
53 INITBROWSERS 1060
53 INITMYWID 5363,5468
//
//Configuration Driver 54
//
54 INITIPADDR 192.168.93.2
54 INITIISADDR 192.2.1.1
54 INITIISPORT 80
54 INITBROWSERS 1060
54 INITMYWID 5469,5574
//
//Configuration Driver 55
//
55 INITIPADDR 192.168.93.2
55 INITIISADDR 192.2.1.1
55 INITIISPORT 80
55 INITBROWSERS 1060
55 INITMYWID 5575,5680
//
//Configuration Driver 56
//
56 INITIPADDR 192.168.93.2
56 INITIISADDR 192.2.1.1
56 INITIISPORT 80
56 INITBROWSERS 1060
56 INITMYWID 5681,5786
//
//Configuration Driver 57
//
57 INITIPADDR 192.168.93.2
57 INITIISADDR 192.2.1.1
57 INITIISPORT 80
57 INITBROWSERS 1060
57 INITMYWID 5787,5892
//
//Configuration Driver 58
//
58 INITIPADDR 192.168.93.2
58 INITIISADDR 192.2.1.1
58 INITIISPORT 80
58 INITBROWSERS 1060
58 INITMYWID 5893,5998
//
//Configuration Driver 59
//
59 INITIPADDR 192.168.93.2
59 INITIISADDR 192.2.1.1
59 INITIISPORT 80
59 INITBROWSERS 1060
59 INITMYWID 5999,6104
//
```

```
//Configuration Driver 60
//
60 INITIPADDR 192.168.93.2
60 INITIISADDR 192.2.1.1
60 INITIISPORT 80
60 INITBROWSERS 1060
60 INITMYWID 6105,6210
//
//Configuration Driver 61
//
61 INITIPADDR 192.168.93.3
61 INITIISADDR 192.3.1.1
61 INITIISPORT 80
61 INITBROWSERS 1020
61 INITMYWID 6211,6312
//
//Configuration Driver 62
//
62 INITIPADDR 192.168.93.3
62 INITIISADDR 192.3.1.1
62 INITIISPORT 80
62 INITBROWSERS 1010
62 INITMYWID 6313,6413
//
//Configuration Driver 63
//
63 INITIPADDR 192.168.93.3
63 INITIISADDR 192.3.1.1
63 INITIISPORT 80
63 INITBROWSERS 1020
63 INITMYWID 6414,6515
//
//Configuration Driver 64
//
64 INITIPADDR 192.168.93.3
64 INITIISADDR 192.3.1.1
64 INITIISPORT 80
64 INITBROWSERS 1010
64 INITMYWID 6516,6616
//
//Configuration Driver 65
//
65 INITIPADDR 192.168.93.3
65 INITIISADDR 192.3.1.1
65 INITIISPORT 80
65 INITBROWSERS 1020
65 INITMYWID 6617,6718
//
//Configuration Driver 66
//
66 INITIPADDR 192.168.93.3
66 INITIISADDR 192.3.1.1
66 INITIISPORT 80
66 INITBROWSERS 1010
66 INITMYWID 6719,6819
//
//Configuration Driver 67
//
67 INITIPADDR 192.168.93.3
```

```
67 INITIISADDR 192.3.1.1
67 INITIISPORT 80
67 INITBROWSERS 1020
67 INITMYWID 6820,6921
//
//Configuration Driver 68
//
68 INITIPADDR 192.168.93.3
68 INITIISADDR 192.3.1.1
68 INITIISPORT 80
68 INITBROWSERS 1010
68 INITMYWID 6922,7022
//
//Configuration Driver 69
//
69 INITIPADDR 192.168.93.3
69 INITIISADDR 192.3.1.1
69 INITIISPORT 80
69 INITBROWSERS 1020
69 INITMYWID 7023,7124
//
//Configuration Driver 70
//
70 INITIPADDR 192.168.93.3
70 INITIISADDR 192.3.1.1
70 INITIISPORT 80
70 INITBROWSERS 1010
70 INITMYWID 7125,7225
//
//Configuration Driver 71
//
71 INITIPADDR 192.168.93.3
71 INITIISADDR 192.3.1.1
71 INITIISPORT 80
71 INITBROWSERS 1020
71 INITMYWID 7226,7327
//
//Configuration Driver 72
//
72 INITIPADDR 192.168.93.3
72 INITIISADDR 192.3.1.1
72 INITIISPORT 80
72 INITBROWSERS 1010
72 INITMYWID 7328,7428
//
//Configuration Driver 73
//
73 INITIPADDR 192.168.93.3
73 INITIISADDR 192.3.1.1
73 INITIISPORT 80
73 INITBROWSERS 1020
73 INITMYWID 7429,7530
//
//Configuration Driver 74
//
74 INITIPADDR 192.168.93.3
74 INITIISADDR 192.3.1.1
74 INITIISPORT 80
74 INITBROWSERS 1010
```

```
74 INITMYWID 7531,7631
//
//Configuration Driver 75
//
75 INITIPADDR 192.168.93.3
75 INITIISADDR 192.3.1.1
75 INITIISPORT 80
75 INITBROWSERS 1020
75 INITMYWID 7632,7733
//
//Configuration Driver 76
//
76 INITIPADDR 192.168.93.3
76 INITIISADDR 192.3.1.1
76 INITIISPORT 80
76 INITBROWSERS 1010
76 INITMYWID 7734,7834
//
//Configuration Driver 77
//
77 INITIPADDR 192.168.93.3
77 INITIISADDR 192.3.1.1
77 INITIISPORT 80
77 INITBROWSERS 1020
77 INITMYWID 7835,7936
//
//Configuration Driver 78
//
78 INITIPADDR 192.168.93.3
78 INITIISADDR 192.3.1.1
78 INITIISPORT 80
78 INITBROWSERS 1010
78 INITMYWID 7937,8037
//
//Configuration Driver 79
//
79 INITIPADDR 192.168.93.3
79 INITIISADDR 192.3.1.1
79 INITIISPORT 80
79 INITBROWSERS 1020
79 INITMYWID 8038,8139
//
//Configuration Driver 80
//
80 INITIPADDR 192.168.93.3
80 INITIISADDR 192.3.1.1
80 INITIISPORT 80
80 INITBROWSERS 1010
80 INITMYWID 8140,8240
//
//Configuration Driver 81
//
81 INITIPADDR 192.168.93.3
81 INITIISADDR 192.3.1.1
81 INITIISPORT 80
81 INITBROWSERS 1020
81 INITMYWID 8241,8342
//
//Configuration Driver 82
```

```
//
82 INITIPADDR 192.168.93.3
82 INITIISADDR 192.3.1.1
82 INITIISPORT 80
82 INITBROWSERS 1010
82 INITMYWID 8343,8443
//
//Configuration Driver 83
//
83 INITIPADDR 192.168.93.3
83 INITIISADDR 192.3.1.1
83 INITIISPORT 80
83 INITBROWSERS 1020
83 INITMYWID 8444,8545
//
//Configuration Driver 84
//
84 INITIPADDR 192.168.93.3
84 INITIISADDR 192.3.1.1
84 INITIISPORT 80
84 INITBROWSERS 1010
84 INITMYWID 8546,8646
//
//Configuration Driver 85
//
85 INITIPADDR 192.168.93.3
85 INITIISADDR 192.3.1.1
85 INITIISPORT 80
85 INITBROWSERS 1020
85 INITMYWID 8647,8748
//
//Configuration Driver 86
//
86 INITIPADDR 192.168.93.3
86 INITIISADDR 192.3.1.1
86 INITIISPORT 80
86 INITBROWSERS 1010
86 INITMYWID 8749,8849
//
//Configuration Driver 87
//
87 INITIPADDR 192.168.93.3
87 INITIISADDR 192.3.1.1
87 INITIISPORT 80
87 INITBROWSERS 1020
87 INITMYWID 8850,8951
//
//Configuration Driver 88
//
88 INITIPADDR 192.168.93.3
88 INITIISADDR 192.3.1.1
88 INITIISPORT 80
88 INITBROWSERS 1010
88 INITMYWID 8952,9052
//
//Configuration Driver 89
//
89 INITIPADDR 192.168.93.3
89 INITIISADDR 192.3.1.1
```

```
89 INITIISPORT 80
89 INITBROWSERS 1020
89 INITMYWID 9053,9154
//
//Configuration Driver 90
//
90 INITIPADDR 192.168.93.3
90 INITIISADDR 192.3.1.1
90 INITIISPORT 80
90 INITBROWSERS 1010
90 INITMYWID 9155,9255
//
//Configuration Driver 91
//
91 INITIPADDR 192.168.93.4
91 INITIISADDR 192.4.1.1
91 INITIISPORT 80
91 INITBROWSERS 1020
91 INITMYWID 9256,9357
//
//Configuration Driver 92
//
92 INITIPADDR 192.168.93.4
92 INITIISADDR 192.4.1.1
92 INITIISPORT 80
92 INITBROWSERS 1010
92 INITMYWID 9358,9458
//
//Configuration Driver 93
//
93 INITIPADDR 192.168.93.4
93 INITIISADDR 192.4.1.1
93 INITIISPORT 80
93 INITBROWSERS 1020
93 INITMYWID 9459,9560
//
//Configuration Driver 94
//
94 INITIPADDR 192.168.93.4
94 INITIISADDR 192.4.1.1
94 INITIISPORT 80
94 INITBROWSERS 1010
94 INITMYWID 9561,9661
//
//Configuration Driver 95
//
95 INITIPADDR 192.168.93.4
95 INITIISADDR 192.4.1.1
95 INITIISPORT 80
95 INITBROWSERS 1020
95 INITMYWID 9662,9763
//
//Configuration Driver 96
//
96 INITIPADDR 192.168.93.4
96 INITIISADDR 192.4.1.1
96 INITIISPORT 80
96 INITBROWSERS 1010
96 INITMYWID 9764,9864
```

```

//
//Configuration Driver 97
//
97 INITIPADDR 192.168.93.4
97 INITIISADDR 192.4.1.1
97 INITIISPORT 80
97 INITBROWSERS 1020
97 INITMYWID 9865,9966
//
//Configuration Driver 98
//
98 INITIPADDR 192.168.93.4
98 INITIISADDR 192.4.1.1
98 INITIISPORT 80
98 INITBROWSERS 1010
98 INITMYWID 9967,10067
//
//Configuration Driver 99
//
99 INITIPADDR 192.168.93.4
99 INITIISADDR 192.4.1.1
99 INITIISPORT 80
99 INITBROWSERS 1020
99 INITMYWID 10068,10169
//
//Configuration Driver 100
//
100 INITIPADDR 192.168.93.4
100 INITIISADDR 192.4.1.1
100 INITIISPORT 80
100 INITBROWSERS 1010
100 INITMYWID 10170,10270
//
//Configuration Driver 101
//
101 INITIPADDR 192.168.93.4
101 INITIISADDR 192.4.1.1
101 INITIISPORT 80
101 INITBROWSERS 1020
101 INITMYWID 10271,10372
//
//Configuration Driver 102
//
102 INITIPADDR 192.168.93.4
102 INITIISADDR 192.4.1.1
102 INITIISPORT 80
102 INITBROWSERS 1010
102 INITMYWID 10373,10473
//
//Configuration Driver 103
//
103 INITIPADDR 192.168.93.4
103 INITIISADDR 192.4.1.1
103 INITIISPORT 80
103 INITBROWSERS 1020
103 INITMYWID 10474,10575
//
//Configuration Driver 104
//

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```

104 INITIPADDR 192.168.93.4
104 INITIISADDR 192.4.1.1
104 INITIISPORT 80
104 INITBROWSERS 1010
104 INITMYWID 10576,10676
//
//Configuration Driver 105
//
105 INITIPADDR 192.168.93.4
105 INITIISADDR 192.4.1.1
105 INITIISPORT 80
105 INITBROWSERS 1020
105 INITMYWID 10677,10778
//
//Configuration Driver 106
//
106 INITIPADDR 192.168.93.4
106 INITIISADDR 192.4.1.1
106 INITIISPORT 80
106 INITBROWSERS 1010
106 INITMYWID 10779,10879
//
//Configuration Driver 107
//
107 INITIPADDR 192.168.93.4
107 INITIISADDR 192.4.1.1
107 INITIISPORT 80
107 INITBROWSERS 1020
107 INITMYWID 10880,10981
//
//Configuration Driver 108
//
108 INITIPADDR 192.168.93.4
108 INITIISADDR 192.4.1.1
108 INITIISPORT 80
108 INITBROWSERS 1010
108 INITMYWID 10982,11082
//
//Configuration Driver 109
//
109 INITIPADDR 192.168.93.4
109 INITIISADDR 192.4.1.1
109 INITIISPORT 80
109 INITBROWSERS 1020
109 INITMYWID 11083,11184
//
//Configuration Driver 110
//
110 INITIPADDR 192.168.93.4
110 INITIISADDR 192.4.1.1
110 INITIISPORT 80
110 INITBROWSERS 1010
110 INITMYWID 11185,11285
//
//Configuration Driver 111
//
111 INITIPADDR 192.168.93.4
111 INITIISADDR 192.4.1.1
111 INITIISPORT 80

```

```
111 INITBROWSERS 1020
111 INITMYWID 11286,11387
//
//Configuration Driver 112
//
112 INITIPADDR 192.168.93.4
112 INITIISADDR 192.4.1.1
112 INITIISPORT 80
112 INITBROWSERS 1010
112 INITMYWID 11388,11488
//
//Configuration Driver 113
//
113 INITIPADDR 192.168.93.4
113 INITIISADDR 192.4.1.1
113 INITIISPORT 80
113 INITBROWSERS 1020
113 INITMYWID 11489,11590
//
//Configuration Driver 114
//
114 INITIPADDR 192.168.93.4
114 INITIISADDR 192.4.1.1
114 INITIISPORT 80
114 INITBROWSERS 1010
114 INITMYWID 11591,11691
//
//Configuration Driver 115
//
115 INITIPADDR 192.168.93.4
115 INITIISADDR 192.4.1.1
115 INITIISPORT 80
115 INITBROWSERS 1020
115 INITMYWID 11692,11793
//
//Configuration Driver 116
//
116 INITIPADDR 192.168.93.4
116 INITIISADDR 192.4.1.1
116 INITIISPORT 80
116 INITBROWSERS 1010
116 INITMYWID 11794,11894
//
//Configuration Driver 117
//
117 INITIPADDR 192.168.93.4
117 INITIISADDR 192.4.1.1
117 INITIISPORT 80
117 INITBROWSERS 1020
117 INITMYWID 11895,11996
//
//Configuration Driver 118
//
118 INITIPADDR 192.168.93.4
118 INITIISADDR 192.4.1.1
118 INITIISPORT 80
118 INITBROWSERS 1010
118 INITMYWID 11997,12097
//
```

```
//Configuration Driver 119
//
119 INITIPADDR 192.168.93.4
119 INITIISADDR 192.4.1.1
119 INITIISPORT 80
119 INITBROWSERS 1020
119 INITMYWID 12098,12199
//
//Configuration Driver 120
//
120 INITIPADDR 192.168.93.4
120 INITIISADDR 192.4.1.1
120 INITIISPORT 80
120 INITBROWSERS 1010
120 INITMYWID 12200,12300
//
//Configuration Driver 121
//
121 INITIPADDR 192.168.93.5
121 INITIISADDR 192.5.1.1
121 INITIISPORT 80
121 INITBROWSERS 1060
121 INITMYWID 12301,12406
//
//Configuration Driver 122
//
122 INITIPADDR 192.168.93.5
122 INITIISADDR 192.5.1.1
122 INITIISPORT 80
122 INITBROWSERS 1060
122 INITMYWID 12407,12512
//
//Configuration Driver 123
//
123 INITIPADDR 192.168.93.5
123 INITIISADDR 192.5.1.1
123 INITIISPORT 80
123 INITBROWSERS 1060
123 INITMYWID 12513,12618
//
//Configuration Driver 124
//
124 INITIPADDR 192.168.93.5
124 INITIISADDR 192.5.1.1
124 INITIISPORT 80
124 INITBROWSERS 1060
124 INITMYWID 12619,12724
//
//Configuration Driver 125
//
125 INITIPADDR 192.168.93.5
125 INITIISADDR 192.5.1.1
125 INITIISPORT 80
125 INITBROWSERS 1060
125 INITMYWID 12725,12830
//
//Configuration Driver 126
//
126 INITIPADDR 192.168.93.5
```

```

126 INITIISADDR 192.5.1.1
126 INITIISPORT 80
126 INITBROWSERS 1060
126 INITMYWID 12831,12936
//
//Configuration Driver 127
//
127 INITIPADDR 192.168.93.5
127 INITIISADDR 192.5.1.1
127 INITIISPORT 80
127 INITBROWSERS 1060
127 INITMYWID 12937,13042
//
//Configuration Driver 128
//
128 INITIPADDR 192.168.93.5
128 INITIISADDR 192.5.1.1
128 INITIISPORT 80
128 INITBROWSERS 1060
128 INITMYWID 13043,13148
//
//Configuration Driver 129
//
129 INITIPADDR 192.168.93.5
129 INITIISADDR 192.5.1.1
129 INITIISPORT 80
129 INITBROWSERS 1060
129 INITMYWID 13149,13254
//
//Configuration Driver 130
//
130 INITIPADDR 192.168.93.5
130 INITIISADDR 192.5.1.1
130 INITIISPORT 80
130 INITBROWSERS 1060
130 INITMYWID 13255,13360
//
//Configuration Driver 131
//
131 INITIPADDR 192.168.93.5
131 INITIISADDR 192.5.1.1
131 INITIISPORT 80
131 INITBROWSERS 1060
131 INITMYWID 13361,13466
//
//Configuration Driver 132
//
132 INITIPADDR 192.168.93.5
132 INITIISADDR 192.5.1.1
132 INITIISPORT 80
132 INITBROWSERS 1060
132 INITMYWID 13467,13572
//
//Configuration Driver 133
//
133 INITIPADDR 192.168.93.5
133 INITIISADDR 192.5.1.1
133 INITIISPORT 80
133 INITBROWSERS 1060

```

```

133 INITMYWID 13573,13678
//
//Configuration Driver 134
//
134 INITIPADDR 192.168.93.5
134 INITIISADDR 192.5.1.1
134 INITIISPORT 80
134 INITBROWSERS 1060
134 INITMYWID 13679,13784
//
//Configuration Driver 135
//
135 INITIPADDR 192.168.93.5
135 INITIISADDR 192.5.1.1
135 INITIISPORT 80
135 INITBROWSERS 1060
135 INITMYWID 13785,13890
//
//Configuration Driver 136
//
136 INITIPADDR 192.168.93.5
136 INITIISADDR 192.5.1.1
136 INITIISPORT 80
136 INITBROWSERS 1060
136 INITMYWID 13891,13996
//
//Configuration Driver 137
//
137 INITIPADDR 192.168.93.5
137 INITIISADDR 192.5.1.1
137 INITIISPORT 80
137 INITBROWSERS 1060
137 INITMYWID 13997,14102
//
//Configuration Driver 138
//
138 INITIPADDR 192.168.93.5
138 INITIISADDR 192.5.1.1
138 INITIISPORT 80
138 INITBROWSERS 1060
138 INITMYWID 14103,14208
//
//Configuration Driver 139
//
139 INITIPADDR 192.168.93.5
139 INITIISADDR 192.5.1.1
139 INITIISPORT 80
139 INITBROWSERS 1060
139 INITMYWID 14209,14314
//
//Configuration Driver 140
//
140 INITIPADDR 192.168.93.5
140 INITIISADDR 192.5.1.1
140 INITIISPORT 80
140 INITBROWSERS 1060
140 INITMYWID 14315,14420
//
//Configuration Driver 141

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```
//
141 INITIPADDR 192.168.93.5
141 INITIISADDR 192.5.1.1
141 INITIISPORT 80
141 INITBROWSERS 1060
141 INITMYWID 14421,14526
//
//Configuration Driver 142
//
142 INITIPADDR 192.168.93.5
142 INITIISADDR 192.5.1.1
142 INITIISPORT 80
142 INITBROWSERS 1060
142 INITMYWID 14527,14632
//
//Configuration Driver 143
//
143 INITIPADDR 192.168.93.5
143 INITIISADDR 192.5.1.1
143 INITIISPORT 80
143 INITBROWSERS 1060
143 INITMYWID 14633,14738
//
//Configuration Driver 144
//
144 INITIPADDR 192.168.93.5
144 INITIISADDR 192.5.1.1
144 INITIISPORT 80
144 INITBROWSERS 1060
144 INITMYWID 14739,14844
//
//Configuration Driver 145
//
145 INITIPADDR 192.168.93.5
145 INITIISADDR 192.5.1.1
145 INITIISPORT 80
145 INITBROWSERS 1060
145 INITMYWID 14845,14950
//
//Configuration Driver 146
//
146 INITIPADDR 192.168.93.5
146 INITIISADDR 192.5.1.1
146 INITIISPORT 80
146 INITBROWSERS 1060
146 INITMYWID 14951,15056
//
//Configuration Driver 147
//
147 INITIPADDR 192.168.93.5
147 INITIISADDR 192.5.1.1
147 INITIISPORT 80
147 INITBROWSERS 1060
147 INITMYWID 15057,15162
//
//Configuration Driver 148
//
148 INITIPADDR 192.168.93.5
148 INITIISADDR 192.5.1.1
```

```
148 INITIISPORT 80
148 INITBROWSERS 1060
148 INITMYWID 15163,15268
//
//Configuration Driver 149
//
149 INITIPADDR 192.168.93.5
149 INITIISADDR 192.5.1.1
149 INITIISPORT 80
149 INITBROWSERS 1060
149 INITMYWID 15269,15374
//
//Configuration Driver 150
//
150 INITIPADDR 192.168.93.5
150 INITIISADDR 192.5.1.1
150 INITIISPORT 80
150 INITBROWSERS 1060
150 INITMYWID 15375,15480
//
//Configuration Driver 151
//
151 INITIPADDR 192.168.93.6
151 INITIISADDR 192.6.1.1
151 INITIISPORT 80
151 INITBROWSERS 1050
151 INITMYWID 15481,15585
//
//Configuration Driver 152
//
152 INITIPADDR 192.168.93.6
152 INITIISADDR 192.6.1.1
152 INITIISPORT 80
152 INITBROWSERS 1050
152 INITMYWID 15586,15690
//
//Configuration Driver 153
//
153 INITIPADDR 192.168.93.6
153 INITIISADDR 192.6.1.1
153 INITIISPORT 80
153 INITBROWSERS 1050
153 INITMYWID 15691,15795
//
//Configuration Driver 154
//
154 INITIPADDR 192.168.93.6
154 INITIISADDR 192.6.1.1
154 INITIISPORT 80
154 INITBROWSERS 1050
154 INITMYWID 15796,15900
//
//Configuration Driver 155
//
155 INITIPADDR 192.168.93.6
155 INITIISADDR 192.6.1.1
155 INITIISPORT 80
155 INITBROWSERS 1050
155 INITMYWID 15901,16005
```

```

//
//Configuration Driver 156
//
156 INITIPADDR 192.168.93.6
156 INITIISADDR 192.6.1.1
156 INITIISPORT 80
156 INITBROWSERS 1050
156 INITMYWID 16006,16110
//
//Configuration Driver 157
//
157 INITIPADDR 192.168.93.6
157 INITIISADDR 192.6.1.1
157 INITIISPORT 80
157 INITBROWSERS 1050
157 INITMYWID 16111,16215
//
//Configuration Driver 158
//
158 INITIPADDR 192.168.93.6
158 INITIISADDR 192.6.1.1
158 INITIISPORT 80
158 INITBROWSERS 1050
158 INITMYWID 16216,16320
//
//Configuration Driver 159
//
159 INITIPADDR 192.168.93.6
159 INITIISADDR 192.6.1.1
159 INITIISPORT 80
159 INITBROWSERS 1050
159 INITMYWID 16321,16425
//
//Configuration Driver 160
//
160 INITIPADDR 192.168.93.6
160 INITIISADDR 192.6.1.1
160 INITIISPORT 80
160 INITBROWSERS 1050
160 INITMYWID 16426,16530
//
//Configuration Driver 161
//
161 INITIPADDR 192.168.93.6
161 INITIISADDR 192.6.1.1
161 INITIISPORT 80
161 INITBROWSERS 1050
161 INITMYWID 16531,16635
//
//Configuration Driver 162
//
162 INITIPADDR 192.168.93.6
162 INITIISADDR 192.6.1.1
162 INITIISPORT 80
162 INITBROWSERS 1050
162 INITMYWID 16636,16740
//
//Configuration Driver 163
//

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163 INITIPADDR 192.168.93.6
163 INITIISADDR 192.6.1.1
163 INITIISPORT 80
163 INITBROWSERS 1050
163 INITMYWID 16741,16845
//
//Configuration Driver 164
//
164 INITIPADDR 192.168.93.6
164 INITIISADDR 192.6.1.1
164 INITIISPORT 80
164 INITBROWSERS 1050
164 INITMYWID 16846,16950
//
//Configuration Driver 165
//
165 INITIPADDR 192.168.93.6
165 INITIISADDR 192.6.1.1
165 INITIISPORT 80
165 INITBROWSERS 1050
165 INITMYWID 16951,17055
//
//Configuration Driver 166
//
166 INITIPADDR 192.168.93.6
166 INITIISADDR 192.6.1.1
166 INITIISPORT 80
166 INITBROWSERS 1050
166 INITMYWID 17056,17160
//
//Configuration Driver 167
//
167 INITIPADDR 192.168.93.6
167 INITIISADDR 192.6.1.1
167 INITIISPORT 80
167 INITBROWSERS 1050
167 INITMYWID 17161,17265
//
//Configuration Driver 168
//
168 INITIPADDR 192.168.93.6
168 INITIISADDR 192.6.1.1
168 INITIISPORT 80
168 INITBROWSERS 1050
168 INITMYWID 17266,17370
//
//Configuration Driver 169
//
169 INITIPADDR 192.168.93.6
169 INITIISADDR 192.6.1.1
169 INITIISPORT 80
169 INITBROWSERS 1050
169 INITMYWID 17371,17475
//
//Configuration Driver 170
//
170 INITIPADDR 192.168.93.6
170 INITIISADDR 192.6.1.1
170 INITIISPORT 80

```

```

170 INITBROWSERS 1050
170 INITMYWID 17476,17580
//
//Configuration Driver 171
//
171 INITIPADDR 192.168.93.6
171 INITIISADDR 192.6.1.1
171 INITIISPORT 80
171 INITBROWSERS 1050
171 INITMYWID 17581,17685
//
//Configuration Driver 172
//
172 INITIPADDR 192.168.93.6
172 INITIISADDR 192.6.1.1
172 INITIISPORT 80
172 INITBROWSERS 1050
172 INITMYWID 17686,17790
//
//Configuration Driver 173
//
173 INITIPADDR 192.168.93.6
173 INITIISADDR 192.6.1.1
173 INITIISPORT 80
173 INITBROWSERS 1050
173 INITMYWID 17791,17895
//
//Configuration Driver 174
//
174 INITIPADDR 192.168.93.6
174 INITIISADDR 192.6.1.1
174 INITIISPORT 80
174 INITBROWSERS 1050
174 INITMYWID 17896,18000
//
//Configuration Driver 175
//
175 INITIPADDR 192.168.93.6
175 INITIISADDR 192.6.1.1
175 INITIISPORT 80
175 INITBROWSERS 1050
175 INITMYWID 18001,18105
//
//Configuration Driver 176
//
176 INITIPADDR 192.168.93.6
176 INITIISADDR 192.6.1.1
176 INITIISPORT 80
176 INITBROWSERS 1050
176 INITMYWID 18106,18210
//
//Configuration Driver 177
//
177 INITIPADDR 192.168.93.6
177 INITIISADDR 192.6.1.1
177 INITIISPORT 80
177 INITBROWSERS 1050
177 INITMYWID 18211,18315
//

```

```

//Configuration Driver 178
//
178 INITIPADDR 192.168.93.6
178 INITIISADDR 192.6.1.1
178 INITIISPORT 80
178 INITBROWSERS 1050
178 INITMYWID 18316,18420
//
//Configuration Driver 179
//
179 INITIPADDR 192.168.93.6
179 INITIISADDR 192.6.1.1
179 INITIISPORT 80
179 INITBROWSERS 1050
179 INITMYWID 18421,18525
//
//Configuration Driver 180
//
180 INITIPADDR 192.168.93.6
180 INITIISADDR 192.6.1.1
180 INITIISPORT 80
180 INITBROWSERS 1050
180 INITMYWID 18526,18630
//
//Configuration Driver 181
//
181 INITIPADDR 192.168.93.7
181 INITIISADDR 192.7.1.1
181 INITIISPORT 80
181 INITBROWSERS 1020
181 INITMYWID 18631,18732
//
//Configuration Driver 182
//
182 INITIPADDR 192.168.93.7
182 INITIISADDR 192.7.1.1
182 INITIISPORT 80
182 INITBROWSERS 1010
182 INITMYWID 18733,18833
//
//Configuration Driver 183
//
183 INITIPADDR 192.168.93.7
183 INITIISADDR 192.7.1.1
183 INITIISPORT 80
183 INITBROWSERS 1020
183 INITMYWID 18834,18935
//
//Configuration Driver 184
//
184 INITIPADDR 192.168.93.7
184 INITIISADDR 192.7.1.1
184 INITIISPORT 80
184 INITBROWSERS 1010
184 INITMYWID 18936,19036
//
//Configuration Driver 185
//
185 INITIPADDR 192.168.93.7

```

```

185 INITIISADDR 192.7.1.1
185 INITIISPORT 80
185 INITBROWSERS 1020
185 INITMYWID 19037,19138
//
//Configuration Driver 186
//
186 INITIPADDR 192.168.93.7
186 INITIISADDR 192.7.1.1
186 INITIISPORT 80
186 INITBROWSERS 1010
186 INITMYWID 19139,19239
//
//Configuration Driver 187
//
187 INITIPADDR 192.168.93.7
187 INITIISADDR 192.7.1.1
187 INITIISPORT 80
187 INITBROWSERS 1020
187 INITMYWID 19240,19341
//
//Configuration Driver 188
//
188 INITIPADDR 192.168.93.7
188 INITIISADDR 192.7.1.1
188 INITIISPORT 80
188 INITBROWSERS 1010
188 INITMYWID 19342,19442
//
//Configuration Driver 189
//
189 INITIPADDR 192.168.93.7
189 INITIISADDR 192.7.1.1
189 INITIISPORT 80
189 INITBROWSERS 1020
189 INITMYWID 19443,19544
//
//Configuration Driver 190
//
190 INITIPADDR 192.168.93.7
190 INITIISADDR 192.7.1.1
190 INITIISPORT 80
190 INITBROWSERS 1010
190 INITMYWID 19545,19645
//
//Configuration Driver 191
//
191 INITIPADDR 192.168.93.7
191 INITIISADDR 192.7.1.1
191 INITIISPORT 80
191 INITBROWSERS 1020
191 INITMYWID 19646,19747
//
//Configuration Driver 192
//
192 INITIPADDR 192.168.93.7
192 INITIISADDR 192.7.1.1
192 INITIISPORT 80
192 INITBROWSERS 1010

```

```

192 INITMYWID 19748,19848
//
//Configuration Driver 193
//
193 INITIPADDR 192.168.93.7
193 INITIISADDR 192.7.1.1
193 INITIISPORT 80
193 INITBROWSERS 1020
193 INITMYWID 19849,19950
//
//Configuration Driver 194
//
194 INITIPADDR 192.168.93.7
194 INITIISADDR 192.7.1.1
194 INITIISPORT 80
194 INITBROWSERS 1010
194 INITMYWID 19951,20051
//
//Configuration Driver 195
//
195 INITIPADDR 192.168.93.7
195 INITIISADDR 192.7.1.1
195 INITIISPORT 80
195 INITBROWSERS 1020
195 INITMYWID 20052,20153
//
//Configuration Driver 196
//
196 INITIPADDR 192.168.93.7
196 INITIISADDR 192.7.1.1
196 INITIISPORT 80
196 INITBROWSERS 1010
196 INITMYWID 20154,20254
//
//Configuration Driver 197
//
197 INITIPADDR 192.168.93.7
197 INITIISADDR 192.7.1.1
197 INITIISPORT 80
197 INITBROWSERS 1020
197 INITMYWID 20255,20356
//
//Configuration Driver 198
//
198 INITIPADDR 192.168.93.7
198 INITIISADDR 192.7.1.1
198 INITIISPORT 80
198 INITBROWSERS 1010
198 INITMYWID 20357,20457
//
//Configuration Driver 199
//
199 INITIPADDR 192.168.93.7
199 INITIISADDR 192.7.1.1
199 INITIISPORT 80
199 INITBROWSERS 1020
199 INITMYWID 20458,20559
//
//Configuration Driver 200

```

```

//
200 INITIPADDR 192.168.93.7
200 INITIISADDR 192.7.1.1
200 INITIISPORT 80
200 INITBROWSERS 1010
200 INITMYWID 20560,20660
//
//Configuration Driver 201
//
201 INITIPADDR 192.168.93.7
201 INITIISADDR 192.7.1.1
201 INITIISPORT 80
201 INITBROWSERS 1020
201 INITMYWID 20661,20762
//
//Configuration Driver 202
//
202 INITIPADDR 192.168.93.7
202 INITIISADDR 192.7.1.1
202 INITIISPORT 80
202 INITBROWSERS 1010
202 INITMYWID 20763,20863
//
//Configuration Driver 203
//
203 INITIPADDR 192.168.93.7
203 INITIISADDR 192.7.1.1
203 INITIISPORT 80
203 INITBROWSERS 1020
203 INITMYWID 20864,20965
//
//Configuration Driver 204
//
204 INITIPADDR 192.168.93.7
204 INITIISADDR 192.7.1.1
204 INITIISPORT 80
204 INITBROWSERS 1010
204 INITMYWID 20966,21066
//
//Configuration Driver 205
//
205 INITIPADDR 192.168.93.7
205 INITIISADDR 192.7.1.1
205 INITIISPORT 80
205 INITBROWSERS 1020
205 INITMYWID 21067,21168
//
//Configuration Driver 206
//
206 INITIPADDR 192.168.93.7
206 INITIISADDR 192.7.1.1
206 INITIISPORT 80
206 INITBROWSERS 1010
206 INITMYWID 21169,21269
//
//Configuration Driver 207
//
207 INITIPADDR 192.168.93.7
207 INITIISADDR 192.7.1.1

```

```

207 INITIISPORT 80
207 INITBROWSERS 1020
207 INITMYWID 21270,21371
//
//Configuration Driver 208
//
208 INITIPADDR 192.168.93.7
208 INITIISADDR 192.7.1.1
208 INITIISPORT 80
208 INITBROWSERS 1010
208 INITMYWID 21372,21472
//
//Configuration Driver 209
//
209 INITIPADDR 192.168.93.7
209 INITIISADDR 192.7.1.1
209 INITIISPORT 80
209 INITBROWSERS 1020
209 INITMYWID 21473,21574
//
//Configuration Driver 210
//
210 INITIPADDR 192.168.93.7
210 INITIISADDR 192.7.1.1
210 INITIISPORT 80
210 INITBROWSERS 1010
210 INITMYWID 21575,21675
//
//Configuration Driver 211
//
211 INITIPADDR 192.168.93.8
211 INITIISADDR 192.8.1.1
211 INITIISPORT 80
211 INITBROWSERS 1020
211 INITMYWID 21676,21777
//
//Configuration Driver 212
//
212 INITIPADDR 192.168.93.8
212 INITIISADDR 192.8.1.1
212 INITIISPORT 80
212 INITBROWSERS 1010
212 INITMYWID 21778,21878
//
//Configuration Driver 213
//
213 INITIPADDR 192.168.93.8
213 INITIISADDR 192.8.1.1
213 INITIISPORT 80
213 INITBROWSERS 1020
213 INITMYWID 21879,21980
//
//Configuration Driver 214
//
214 INITIPADDR 192.168.93.8
214 INITIISADDR 192.8.1.1
214 INITIISPORT 80
214 INITBROWSERS 1010
214 INITMYWID 21981,22081

```

```

//
//Configuration Driver 215
//
215 INITIPADDR 192.168.93.8
215 INITIISADDR 192.8.1.1
215 INITIISPORT 80
215 INITBROWSERS 1020
215 INITMYWID 22082,22183
//
//Configuration Driver 216
//
216 INITIPADDR 192.168.93.8
216 INITIISADDR 192.8.1.1
216 INITIISPORT 80
216 INITBROWSERS 1010
216 INITMYWID 22184,22284
//
//Configuration Driver 217
//
217 INITIPADDR 192.168.93.8
217 INITIISADDR 192.8.1.1
217 INITIISPORT 80
217 INITBROWSERS 1020
217 INITMYWID 22285,22386
//
//Configuration Driver 218
//
218 INITIPADDR 192.168.93.8
218 INITIISADDR 192.8.1.1
218 INITIISPORT 80
218 INITBROWSERS 1010
218 INITMYWID 22387,22487
//
//Configuration Driver 219
//
219 INITIPADDR 192.168.93.8
219 INITIISADDR 192.8.1.1
219 INITIISPORT 80
219 INITBROWSERS 1020
219 INITMYWID 22488,22589
//
//Configuration Driver 220
//
220 INITIPADDR 192.168.93.8
220 INITIISADDR 192.8.1.1
220 INITIISPORT 80
220 INITBROWSERS 1010
220 INITMYWID 22590,22690
//
//Configuration Driver 221
//
221 INITIPADDR 192.168.93.8
221 INITIISADDR 192.8.1.1
221 INITIISPORT 80
221 INITBROWSERS 1020
221 INITMYWID 22691,22792
//
//Configuration Driver 222
//

```

```

222 INITIPADDR 192.168.93.8
222 INITIISADDR 192.8.1.1
222 INITIISPORT 80
222 INITBROWSERS 1010
222 INITMYWID 22793,22893
//
//Configuration Driver 223
//
223 INITIPADDR 192.168.93.8
223 INITIISADDR 192.8.1.1
223 INITIISPORT 80
223 INITBROWSERS 1020
223 INITMYWID 22894,22995
//
//Configuration Driver 224
//
224 INITIPADDR 192.168.93.8
224 INITIISADDR 192.8.1.1
224 INITIISPORT 80
224 INITBROWSERS 1010
224 INITMYWID 22996,23096
//
//Configuration Driver 225
//
225 INITIPADDR 192.168.93.8
225 INITIISADDR 192.8.1.1
225 INITIISPORT 80
225 INITBROWSERS 1020
225 INITMYWID 23097,23198
//
//Configuration Driver 226
//
226 INITIPADDR 192.168.93.8
226 INITIISADDR 192.8.1.1
226 INITIISPORT 80
226 INITBROWSERS 1010
226 INITMYWID 23199,23299
//
//Configuration Driver 227
//
227 INITIPADDR 192.168.93.8
227 INITIISADDR 192.8.1.1
227 INITIISPORT 80
227 INITBROWSERS 1020
227 INITMYWID 23300,23401
//
//Configuration Driver 228
//
228 INITIPADDR 192.168.93.8
228 INITIISADDR 192.8.1.1
228 INITIISPORT 80
228 INITBROWSERS 1010
228 INITMYWID 23402,23502
//
//Configuration Driver 229
//
229 INITIPADDR 192.168.93.8
229 INITIISADDR 192.8.1.1
229 INITIISPORT 80

```

```

229 INITBROWSERS 1020
229 INITMYWID 23503,23604
//
//Configuration Driver 230
//
230 INITIPADDR 192.168.93.8
230 INITIISADDR 192.8.1.1
230 INITIISPORT 80
230 INITBROWSERS 1010
230 INITMYWID 23605,23705
//
//Configuration Driver 231
//
231 INITIPADDR 192.168.93.8
231 INITIISADDR 192.8.1.1
231 INITIISPORT 80
231 INITBROWSERS 1020
231 INITMYWID 23706,23807
//
//Configuration Driver 232
//
232 INITIPADDR 192.168.93.8
232 INITIISADDR 192.8.1.1
232 INITIISPORT 80
232 INITBROWSERS 1010
232 INITMYWID 23808,23908
//
//Configuration Driver 233
//
233 INITIPADDR 192.168.93.8
233 INITIISADDR 192.8.1.1
233 INITIISPORT 80
233 INITBROWSERS 1020
233 INITMYWID 23909,24010
//
//Configuration Driver 234
//
234 INITIPADDR 192.168.93.8
234 INITIISADDR 192.8.1.1
234 INITIISPORT 80
234 INITBROWSERS 1010
234 INITMYWID 24011,24111
//
//Configuration Driver 235
//
235 INITIPADDR 192.168.93.8
235 INITIISADDR 192.8.1.1
235 INITIISPORT 80
235 INITBROWSERS 1020
235 INITMYWID 24112,24213
//
//Configuration Driver 236
//
236 INITIPADDR 192.168.93.8
236 INITIISADDR 192.8.1.1
236 INITIISPORT 80
236 INITBROWSERS 1010
236 INITMYWID 24214,24314
//

```

```

//Configuration Driver 237
//
237 INITIPADDR 192.168.93.8
237 INITIISADDR 192.8.1.1
237 INITIISPORT 80
237 INITBROWSERS 1020
237 INITMYWID 24315,24416
//
//Configuration Driver 238
//
238 INITIPADDR 192.168.93.8
238 INITIISADDR 192.8.1.1
238 INITIISPORT 80
238 INITBROWSERS 1010
238 INITMYWID 24417,24517
//
//Configuration Driver 239
//
239 INITIPADDR 192.168.93.8
239 INITIISADDR 192.8.1.1
239 INITIISPORT 80
239 INITBROWSERS 1020
239 INITMYWID 24518,24619
//
//Configuration Driver 240
//
240 INITIPADDR 192.168.93.8
240 INITIISADDR 192.8.1.1
240 INITIISPORT 80
240 INITBROWSERS 810
240 INITMYWID 24620,24700

```

Driver Environment

```

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

```

C:\rhost>if 'ipconfig' == '' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all

```

Windows IP Configuration

```

Host Name . . . . . : RTE1
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

```

Ethernet adapter Admin:

```

Connection-specific DNS Suffix . . :
Description . . . . . : Intel 8255x-based PCI Ethernet
Adapter (10/100)
Physical Address. . . . . : 00-06-5B-39-9A-82
DHCP Enabled. . . . . : No

```

```

IP Address. . . . . : 192.158.2.101
Subnet Mask . . . . . : 255.255.255.0

IP Address. . . . . : 192.168.93.1
Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :

NetBIOS over Tcpi. . . . . : Disabled

```

Ethernet adapter Client:

```

Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-39-9A-83
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.1.1.2
Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :

NetBIOS over Tcpi. . . . . : Disabled

```

```

C:\webdriver>goto end
C:\rhost>if 'ipconfig' == '' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all

```

Windows IP Configuration

```

Host Name . . . . . : RTE2
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No

```

WINS Proxy Enabled. : No

Ethernet adapter Admin:

Connection-specific DNS Suffix . . :
Description : Intel 8255x-based PCI Ethernet Adapter (10/100)
Physical Address. : 00-06-5B-39-9B-EF
DHCP Enabled. : No
IP Address. : 192.158.2.102
Subnet Mask : 255.255.255.0
IP Address. : 192.168.93.2
Subnet Mask : 255.255.255.0
Default Gateway :
NetBIOS over Tcpi. : Disabled

Ethernet adapter Client:

Connection-specific DNS Suffix . . :
Description : Broadcom NetXtreme Gigabit Ethernet
Physical Address. : 00-06-5B-39-9B-F0
DHCP Enabled. : No
IP Address. : 192.1.1.22
Subnet Mask : 255.255.255.0
IP Address. : 192.2.1.2
Subnet Mask : 255.255.255.0
Default Gateway :
NetBIOS over Tcpi. : Disabled

C:\webdriver>goto end

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

C:\rhost>c:

C:\rhost>cd \webdriver

C:\webdriver>call ipconfig /all

Windows IP Configuration

Host Name : RTE3
Primary Dns Suffix :
Node Type : Unknown
IP Routing Enabled. : No
WINS Proxy Enabled. : No

Ethernet adapter Admin:

Connection-specific DNS Suffix . . :
Description : Intel 8255x-based PCI Ethernet Adapter (10/100)
Physical Address. : 00-06-5B-39-9C-DB
DHCP Enabled. : No
IP Address. : 192.158.2.103
Subnet Mask : 255.255.255.0
IP Address. : 192.168.93.3
Subnet Mask : 255.255.255.0
Default Gateway :
NetBIOS over Tcpi. : Disabled

Ethernet adapter Client:

Connection-specific DNS Suffix . . :
Description : Broadcom NetXtreme Gigabit Ethernet

```
Physical Address. . . . . : 00-06-5B-39-9C-DC
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.2.1.23
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.3.1.2
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpi. . . . . : Disabled
```

```
C:\webdriver>goto end
C:\rhost>if 'ipconfig' == '' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : RTE4
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Intel 8255x-based PCI Ethernet
Adapter (10/100)
Physical Address. . . . . : 00-06-5B-39-9E-FD
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.158.2.104
```

```
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.168.93.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpi. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-39-9E-FE
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.2.1.24
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.4.1.2
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpi. . . . . : Disabled
```

```
C:\webdriver>goto end
C:\rhost>if 'ipconfig' == '' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : RTE5
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
```

```
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel 8255x-based PCI Ethernet
Adapter (10/100)
Physical Address. . . . . : 00-06-5B-39-9C-D7
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.158.2.105
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.168.93.5
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-39-9C-D8
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.3.1.25
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.5.1.2
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 . . . . . : RTE6
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel 8255x-based PCI Ethernet
Adapter (10/100)
Physical Address. . . . . : 00-06-5B-39-96-6D
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.158.2.106
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.168.93.6
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . :
```

```
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-39-96-6E
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.3.1.26
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.6.1.2
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 . . . . . : RTE7
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Intel 8255x-based PCI Ethernet
Adapter (10/100)
Physical Address. . . . . : 00-06-5B-39-9E-DA
DHCP Enabled. . . . . : No
```

```
IP Address. . . . . : 192.158.2.107
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.168.93.7
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
NetBIOS over Tcpip. . . . . : Disabled
```

Ethernet adapter Client:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-39-9E-DB
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.4.1.27
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.7.1.2
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 . . . . . : RTE8
Primary Dns Suffix . . . . . :
```

```

Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Ethernet adapter Admin:

    Connection-specific DNS Suffix  . :
    Description . . . . . : Intel 8255x-based PCI Ethernet
Adapter (10/100)
    Physical Address. . . . . : 00-06-5B-39-1E-64
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.158.2.108
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : 192.168.93.8
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
    NetBIOS over Tcpip. . . . . : Disabled

Ethernet adapter Client:

    Connection-specific DNS Suffix  . :
    Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
    Physical Address. . . . . : 00-06-5B-39-1E-65
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.4.1.28
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : 192.8.1.2
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
    NetBIOS over Tcpip. . . . . : Disabled

```

```

C:\webdriver>goto end
Volume in drive \\rte1\c$ has no label.
Volume Serial Number is EC05-D30B

Directory of \\rte1\c$\webdriver
10/01/2003  05:23p                107,008  webdriver.exe
             1 File(s)            107,008 bytes
             0 Dir(s)  12,785,717,248 bytes free
Volume in drive \\rte2\c$ has no label.
Volume Serial Number is EC05-D30B

Directory of \\rte2\c$\webdriver
10/01/2003  05:23p                107,008  webdriver.exe
             1 File(s)            107,008 bytes
             0 Dir(s)  12,669,259,776 bytes free
Volume in drive \\rte3\c$ has no label.
Volume Serial Number is EC05-D30B

Directory of \\rte3\c$\webdriver
10/01/2003  05:23p                107,008  webdriver.exe
             1 File(s)            107,008 bytes
             0 Dir(s)  12,767,506,432 bytes free
Volume in drive \\rte4\c$ has no label.
Volume Serial Number is EC05-D30B

Directory of \\rte4\c$\webdriver
10/01/2003  05:23p                107,008  webdriver.exe
             1 File(s)            107,008 bytes
             0 Dir(s)  12,766,240,768 bytes free
Volume in drive \\rte5\c$ has no label.
Volume Serial Number is EC05-D30B

Directory of \\rte5\c$\webdriver
10/01/2003  05:23p                107,008  webdriver.exe
             1 File(s)            107,008 bytes
             0 Dir(s)  12,710,825,984 bytes free
Volume in drive \\rte6\c$ has no label.
Volume Serial Number is EC05-D30B

Directory of \\rte6\c$\webdriver
10/01/2003  05:23p                107,008  webdriver.exe
             1 File(s)            107,008 bytes
             0 Dir(s)  12,758,978,560 bytes free
Volume in drive \\rte7\c$ has no label.
Volume Serial Number is EC05-D30B

Directory of \\rte7\c$\webdriver
10/01/2003  05:23p                107,008  webdriver.exe
             1 File(s)            107,008 bytes
             0 Dir(s)  12,769,730,560 bytes free
Volume in drive \\rte8\c$ has no label.

```

Volume Serial Number is EC05-D30B

Directory of \\rte8\c\$\webdriver

```
10/01/2003  05:23p          107,008 webdriver.exe
             1 File(s)      107,008 bytes
             0 Dir(s)    12,780,736,512 bytes free
```

Start RTE Cmd

```
start " D1 RTE1 " /MIN webdriver.cmd 1
start " D1 RTE2 " /MIN webdriver.cmd 2
start " D1 RTE3 " /MIN webdriver.cmd 3
start " D1 RTE4 " /MIN webdriver.cmd 4
start " D1 RTE5 " /MIN webdriver.cmd 5
start " D1 RTE6 " /MIN webdriver.cmd 6
start " D1 RTE7 " /MIN webdriver.cmd 7
start " D1 RTE8 " /MIN webdriver.cmd 8
start " D1 RTE9 " /MIN webdriver.cmd 9
start " D1 RTE10 " /MIN webdriver.cmd 10
start " D1 RTE11 " /MIN webdriver.cmd 11
start " D1 RTE12 " /MIN webdriver.cmd 12
start " D1 RTE13 " /MIN webdriver.cmd 13
start " D1 RTE14 " /MIN webdriver.cmd 14
start " D1 RTE15 " /MIN webdriver.cmd 15
start " D1 RTE16 " /MIN webdriver.cmd 16
start " D1 RTE17 " /MIN webdriver.cmd 17
start " D1 RTE18 " /MIN webdriver.cmd 18
start " D1 RTE19 " /MIN webdriver.cmd 19
start " D1 RTE20 " /MIN webdriver.cmd 20
start " D1 RTE21 " /MIN webdriver.cmd 21
start " D1 RTE22 " /MIN webdriver.cmd 22
start " D1 RTE23 " /MIN webdriver.cmd 23
start " D1 RTE24 " /MIN webdriver.cmd 24
start " D1 RTE25 " /MIN webdriver.cmd 25
start " D1 RTE26 " /MIN webdriver.cmd 26
start " D1 RTE27 " /MIN webdriver.cmd 27
start " D1 RTE28 " /MIN webdriver.cmd 28
start " D1 RTE29 " /MIN webdriver.cmd 29
start " D1 RTE30 " /MIN webdriver.cmd 30
start " D2 RTE31 " /MIN webdriver.cmd 31
start " D2 RTE32 " /MIN webdriver.cmd 32
start " D2 RTE33 " /MIN webdriver.cmd 33
start " D2 RTE34 " /MIN webdriver.cmd 34
start " D2 RTE35 " /MIN webdriver.cmd 35
start " D2 RTE36 " /MIN webdriver.cmd 36
start " D2 RTE37 " /MIN webdriver.cmd 37
start " D2 RTE38 " /MIN webdriver.cmd 38
start " D2 RTE39 " /MIN webdriver.cmd 39
start " D2 RTE40 " /MIN webdriver.cmd 40
start " D2 RTE41 " /MIN webdriver.cmd 41
start " D2 RTE42 " /MIN webdriver.cmd 42
start " D2 RTE43 " /MIN webdriver.cmd 43
start " D2 RTE44 " /MIN webdriver.cmd 44
start " D2 RTE45 " /MIN webdriver.cmd 45
start " D2 RTE46 " /MIN webdriver.cmd 46
start " D2 RTE47 " /MIN webdriver.cmd 47
start " D2 RTE48 " /MIN webdriver.cmd 48
```

```
start " D2 RTE49 " /MIN webdriver.cmd 49
start " D2 RTE50 " /MIN webdriver.cmd 50
start " D2 RTE51 " /MIN webdriver.cmd 51
start " D2 RTE52 " /MIN webdriver.cmd 52
start " D2 RTE53 " /MIN webdriver.cmd 53
start " D2 RTE54 " /MIN webdriver.cmd 54
start " D2 RTE55 " /MIN webdriver.cmd 55
start " D2 RTE56 " /MIN webdriver.cmd 56
start " D2 RTE57 " /MIN webdriver.cmd 57
start " D2 RTE58 " /MIN webdriver.cmd 58
start " D2 RTE59 " /MIN webdriver.cmd 59
start " D2 RTE60 " /MIN webdriver.cmd 60
start " D3 RTE61 " /MIN webdriver.cmd 61
start " D3 RTE62 " /MIN webdriver.cmd 62
start " D3 RTE63 " /MIN webdriver.cmd 63
start " D3 RTE64 " /MIN webdriver.cmd 64
start " D3 RTE65 " /MIN webdriver.cmd 65
start " D3 RTE66 " /MIN webdriver.cmd 66
start " D3 RTE67 " /MIN webdriver.cmd 67
start " D3 RTE68 " /MIN webdriver.cmd 68
start " D3 RTE69 " /MIN webdriver.cmd 69
start " D3 RTE70 " /MIN webdriver.cmd 70
start " D3 RTE71 " /MIN webdriver.cmd 71
start " D3 RTE72 " /MIN webdriver.cmd 72
start " D3 RTE73 " /MIN webdriver.cmd 73
start " D3 RTE74 " /MIN webdriver.cmd 74
start " D3 RTE75 " /MIN webdriver.cmd 75
start " D3 RTE76 " /MIN webdriver.cmd 76
start " D3 RTE77 " /MIN webdriver.cmd 77
start " D3 RTE78 " /MIN webdriver.cmd 78
start " D3 RTE79 " /MIN webdriver.cmd 79
start " D3 RTE80 " /MIN webdriver.cmd 80
start " D3 RTE81 " /MIN webdriver.cmd 81
start " D3 RTE82 " /MIN webdriver.cmd 82
start " D3 RTE83 " /MIN webdriver.cmd 83
start " D3 RTE84 " /MIN webdriver.cmd 84
start " D3 RTE85 " /MIN webdriver.cmd 85
start " D3 RTE86 " /MIN webdriver.cmd 86
start " D3 RTE87 " /MIN webdriver.cmd 87
start " D3 RTE88 " /MIN webdriver.cmd 88
start " D3 RTE89 " /MIN webdriver.cmd 89
start " D3 RTE90 " /MIN webdriver.cmd 90
start " D4 RTE91 " /MIN webdriver.cmd 91
start " D4 RTE92 " /MIN webdriver.cmd 92
start " D4 RTE93 " /MIN webdriver.cmd 93
start " D4 RTE94 " /MIN webdriver.cmd 94
start " D4 RTE95 " /MIN webdriver.cmd 95
start " D4 RTE96 " /MIN webdriver.cmd 96
start " D4 RTE97 " /MIN webdriver.cmd 97
start " D4 RTE98 " /MIN webdriver.cmd 98
start " D4 RTE99 " /MIN webdriver.cmd 99
start " D4 RTE100 " /MIN webdriver.cmd 100
start " D4 RTE101 " /MIN webdriver.cmd 101
start " D4 RTE102 " /MIN webdriver.cmd 102
start " D4 RTE103 " /MIN webdriver.cmd 103
start " D4 RTE104 " /MIN webdriver.cmd 104
start " D4 RTE105 " /MIN webdriver.cmd 105
start " D4 RTE106 " /MIN webdriver.cmd 106
start " D4 RTE107 " /MIN webdriver.cmd 107
```



```
start " D8 RTE226 " /MIN webdriver.cmd 226
start " D8 RTE227 " /MIN webdriver.cmd 227
start " D8 RTE228 " /MIN webdriver.cmd 228
start " D8 RTE229 " /MIN webdriver.cmd 229
start " D8 RTE230 " /MIN webdriver.cmd 230
start " D8 RTE231 " /MIN webdriver.cmd 231
start " D8 RTE232 " /MIN webdriver.cmd 232
start " D8 RTE233 " /MIN webdriver.cmd 233
start " D8 RTE234 " /MIN webdriver.cmd 234
start " D8 RTE235 " /MIN webdriver.cmd 235
start " D8 RTE236 " /MIN webdriver.cmd 236
start " D8 RTE237 " /MIN webdriver.cmd 237
start " D8 RTE238 " /MIN webdriver.cmd 238
start " D8 RTE239 " /MIN webdriver.cmd 239
start " D8 RTE240 " /MIN webdriver.cmd 240
```

Appendix E - Disk Storage

| TPC-C 60-Day Disk Space Requirements | | | | | |
|--------------------------------------|---------------------|--|-------------------------------------|----------------------|-------------------------|
| Warehouses | 24,700 | tpmC | 309,036.53 | tpmC/W | 12.51 |
| Table | Initial Rows | Data KB | Index KB | Extra 5% KB | Total With 5% KB |
| Warehouse | 24,700 | 2,672 | 488 | 158 | 3,318 |
| District | 247,000 | 27,832 | 944 | 1,439 | 30,215 |
| Customer | 741,000,000 | 152,000,000 | 32,762,696 | 9,238,135 | 194,000,831 |
| Customer.Text | 741,000,000 | 443,215,848 | | 22,160,792 | 465,376,640 |
| History (D) | 741,000,000 | 44,238,808 | 173,240 | | 44,412,048 |
| Order (D) | 741,000,000 | 24,195,920 | 56,032 | | 24,251,952 |
| New-Order | 222,300,000 | 4,391,112 | 12,672 | 220,189 | 4,623,973 |
| Order-Line (D) | 7,409,978,444 | 493,998,568 | 1,169,616 | | 495,168,184 |
| Item | 100,000 | 9,528 | 872 | 520 | 10,920 |
| Stock | 2,470,000,000 | 790,400,000 | 1,673,680 | 39,603,684 | 831,677,364 |
| Totals KB | | 1,952,480,288 | 35,850,240 | 71,224,917 | 2,059,555,445 |
| 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 | 110 | 4,875 | 536,250 | 497,884 | 507,427 |
| mssql70_cs_fg | 110 | 9,600 | 1,056,000 | 1,001,639 | 1,001,639 |
| mssql70_ord_fg | 110 | 6,300 | 693,000 | 511,762 | 637,967 |
| Total Allocated MB | | | 2,285,292 | 2,011,327 | 2,147,075 |
| MB | | | | | |
| Dynamic Space MB | 549,251 | Sum of data for orders, order_line & history | | | |
| Static Space | 1,462,033 | Sum of data+index+5% - Dynamic Space | | | |
| Free Space | 274,007 | Total allocated space - (Dynamic & Static Spaces) | | | |
| Daily Growth | 109,952 | (Dynamic Space / (W * 62.5)) * tpmC | | | |
| Daily Spread | 109,079 | Free space - 1.5 * Daily growth (zero if negative) | | | |
| | | 0 SQL Server can be configured to eliminate Daily Spread | | | |
| 60 Day Space MB | 8,059,165 | Static Space + 60 * (Daily Growth + Daily Spread) | | | |
| 60 Day Space GB | 7,870.28 | | | | |
| 8 hr log GB | 676.06 | (need double for mirroring) | | | |
| Disk Capacity MB | 16744 | 16.352 GB | Capacity of 18GB disks (15,000 RPM) | | |
| | 68204 | 66.605 GB | Capacity of 73GB disks (10,000 RPM) | | |
| Space Usage | GB Needed | Disks Priced | GB Priced | | |
| 60-day space DB | 7870.28 GB | 770 | 12590.70 GB | 18GB drives | |
| Total DB | | 770 | 12590.70 GB | | |
| 8-hr log+mirror | 1352.12 GB | 24 | 1523.98 GB | 73GB drives | |
| OS, SQL Server | 14.00 GB | 2 | 33.47 GB | 36GB drive, mirrored | |
| Total space | 9236.39 GB | 796 | 14148.15 GB | 13.8 TB | |

| TPC-C Dynamic Table Growth Rates for 8 Hours | | | | | 309,036.53 tpmC | |
|--|--------------------|--------------------|-------------------|----------------|-------------------|-------------------|
| Tables | Initial (KB) | Final (KB) | Change(KB) | KB / New-Order | 8-Hr MB | |
| History | 44,412,048 | 48,643,744 | 4,231,696 | 0.0659 | 52,913.97 | |
| Orders | 24,251,952 | 30,169,360 | 5,917,408 | 0.1130 | 40,055.39 | |
| Order_line | 495,168,184 | 542,591,872 | 47,423,688 | 0.7383 | 590,507.07 | |
| Dynamic | 563,832,184 | 621,404,976 | 57,572,792 | 0.9171 | 683,476.42 | |
| New_order | 4,403,784 | 5,780,208 | 1,376,424 | 0.0214 | 7,404.52 | |
| Static | | | | | | |
| Log | 10,523,008 | 312,953,847 | 302,430,839 | 4.7080 | 692,283.23 | 676.058 GB |
| SUM(d_next_o_id) | 741,247,000 | 805,484,471 | 64,237,471 | | | |

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

December 15, 2003

Unisys Corporation
Glenn Weeks
MS237
25725 Jeronimo Road
Mission Viejo, CA 92691

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 |
|--------------------|---|-------------------|-----------------|--------------|
| P73-00295 | Windows Server 2003, Standard Edition <i>Server license only - No CALs</i> <i>Discount Schedule: Open Program - No Level</i> <i>Unit Price reflects a 26% discount from the</i> <i>retail unit price of \$999.</i> | \$738 | 8 | \$5,904 |
| 254-00170 | Visual C++ Standard <i>No discounts applied</i> | \$109 | 1 | \$109 |
| PRO-PRORS-16U-01 | Database Server Support Package <i>1 Year Term</i> | \$1,950 | 3 | \$5,850 |

All products are currently orderable through Microsoft's normal distribution channels.

This quote is valid for the next 90 days.

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

Reference ID: PCglwe0315125498

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



Phone: 800-848-7185
 Fax: 203-384-0473
 35 Benham Avenue
 Bridgeport, CT 06605
 www.cril.com

| SALES QUOTE | |
|-------------|--------------|
| SQ-16669 | Dec 09, 2003 |

| | | | | | | | |
|--|--|------------------|--------------------|--|----------------|-----------------|---------------|
| 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 Dat | | | |
| UNIMISSI | NET 30 | Jan 08, 2004 | John Palmieri | | | | |
| Quotation | PO # | Reference | Ship VIA | Pag | Printed | | |
| SQ-16669 | | | UPS GROUND | 1 | 01/15/0412:04 | | |
| L Item | Description | Qty | Ship | Price | M | Discount | Amount |
| 1 | ES7000-420 Server | | | | | | |
| 2 | ES7420166-111 SYS:ES7000-420-16X 1.5HZ/64MB, 64-GM | 1 | | 287328.00 | EA | | 287328.00 |
| 3 | MEM162-32G MEM:16X2GB DIMMS, 32GB | 2 | | 30400.0 | EA | | 60800.00 |
| 4 | MOD3133-PCI MOD: I/F, 2-PORT 10 MODUEL, 133 MHZ | 3 | | 1805.00 | EA | | 5415.00 |
| 5 | FC76222-P64 CTRL: 2 GB FC, INTELLIFIBRE | 7 | | 2850.00 | EA | | 19950.00 |
| 6 | ES70003-OIF RCK:105 KBRD/MOUSE/MON | 1 | | 570.00 | EA | | 570.00 |
| 7 | WND2316-TSP O/S:WINDOWS 2003 SERVER, DC, 16P,1YR | 1 | | 35112.0 | EA | | 35112.00 |
| 8 | DUS200316-TSP O/S:DC 16X LTD. SUB 1 YR | 2 | | 3173.00 | EA | | 6346.00 |
| 9 | GTS7524016-SSA O/S:WINDOWS SERVER 2003. DC SUPPORT | 3 | | 12574.0 | EA | | 37722.00 |
| 10 | DQL200316-LX SW:16X SQL+NO SUBCRIP | 1 | | 212800.00 | EA | | 212800.00 |
| 11 | USS2200/RS200 Storage | | | | | | |
| 12 | JBD201815-P84 6 RACKS - 84 X 18GB 15K RPM | 10 | | 29839.0 | EA | | 298390.00 |
| 13 | JBD201815-2F DISK: 18GB 15K RPM | 7 | | 578.00 | EA | | 4046.00 |
| 14 | CXR7310-2GF EMC DISK:73 GB, 10K DRIVE, FACT | 27 | | 1568.00 | EA | | 42336.00 |
| 15 | JBD2002-SA DISK:NON-HA ENCLOSURE WITH 14 DRIVE | 33 | | 3010.00 | EA | | 99330.00 |
| 16 | JBD2011-SA DISK:NON-HA ENCLOSURE WITH 14 DRIVE | 22 | | 3214.00 | EA | | 70708.00 |
| 17 | RMM20103-ELS SAN:SYMM DISK VIRT SRVR II-ELS | 11 | | 4559.00 | EA | | 50149.00 |
| 18 | RMM20701-TAR SAN:HBA,ATTO PCI3300 | 33 | | 1805.00 | EA | | 59565.00 |
| 19 | USS10300-SW SAN:USS2100 SW & PROD INF | 1 | | 5472.00 | EA | | 5472.00 |
| 20 | USS20320-LIC SAN:USS2100 20 TBYTE LIC | 1 | | 37484.0 | EA | | 37484.00 |
| 21 | JBD20003-CCL DISK:.3 METER 2GB FIBRE CHANNEL | 33 | | 54.00 | EA | | 1782.00 |
| 22 | JBD2001-RMK DISK:ENCLOSURE RACK MOUNT KIT FOR | 55 | | 190.00 | EA | | 10450.00 |
| 23 | CX200-DPE EMC:DISK:3U DPE, HA, W/SPS, FIELD | 1 | | 19000.0 | EA | | 19000.00 |
| 24 | CX600-DAE RCK:FC 2GB STORAGE, OPTICAL I/F, DAE | 1 | | 7600.00 | EA | | 7600.00 |
| 25 | CXN600-WIN EMC SW:NAVISPHERE AGENT NT/W2K | 1 | | 646.00 | EA | | 646.00 |
| 26 | CX2002-DPE EMC SW: NAVISPHERE MANAGER BASE FOR | 1 | | 1549.00 | EA | | 1549.00 |
| | | | | | | Page 1 | |
| | | | | | | SubTotal | 1374550.00 |

COMPUTER RESOLUTIONS®

Taking IT Personally™

Phone: 800-848-7185
 Fax: 203-384-0473
 35 Benham Avenue
 Bridgeport, CT 06605
 www.cril.com

SALES QUOTE

SQ-16669

Dec 09, 2003

| 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 Dat | | | |
| UNIMISSI | NET 30 | Jan 08, 2004 | John Palmieri | | | | |
| Quotation | PO # | Reference | Ship VIA | Pag | Printed | | |
| SQ-16669 | | | UPS GROUND | 2 | 01/15/0412:04 | | |
| L Item | Description | Qty | Ship | Price | M | Discount | Amount |
| 27 | CX200-DAE | 1 | | 7695.00 | EA | | 7695.00 |
| 28 | GS516-T16 | 1 | | 2850.00 | EA | | 2850.00 |
| 29 | SWC81-SXR | 3 | | 1520.00 | EA | | 4560.00 |
| 30 | CBL121-SWC | 19 | | 143.00 | EA | | 2717.00 |
| 31 | KBR28301-SXR | 2 | | 333.00 | EA | | 666.00 |
| 32 | MON2145-LCD | 2 | | 2565.00 | EA | | 5130.00 |
| 33 | SFR9-PWR | 18 | | 162.00 | EA | | 2916.00 |
| 34 | USE1936-LC6 | 18 | | 86.00 | EA | | 1548.00 |
| 35 | HRT361941-OFT | 6 | | 1425.00 | EA | | 8550.00 |
| 36 | | | | | | | |
| 37 | ESL30202-240 | 8 | | 1204.00 | EA | | 9632.00 |
| 38 | CPL3020242-512 | 8 | | 532.00 | EA | | 4256.00 |
| 39 | DIM3020022-1GB | 8 | | 799.00 | EA | | 6392.00 |
| 40 | HBP3020101-51 | 8 | | 265.00 | EA | | 2120.00 |
| 41 | HDP18115-DC4 | 8 | | 333.00 | EA | | 2664.00 |
| 42 | ESL3020-VRL | 8 | | 333.00 | EA | | 2664.00 |
| 43 | | | | | | | |
| 44 | DISCOUNT | 1 | | -187058.00 | EA | | -187058.00 |
| 45 | | | | | | | |
| 46 | | | | | | | |
| 47 | | | | | | | |
| 48 | | | | | | | |
| 49 | | | | | | | |
| 50 | | | | | | | |
| | | | | | | Taxable | 0.00 |
| | | | | | | Tax | 0.00 |
| | | | | | | Exempt | 1251852.00 |
| | | | | | | Total | 1251852.00 |
| | | | | | | Paid | 0.00 |
| | | | | | | Tr Disc | 0.00 |
| | | | | | | Balance | 1251852.00 |
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GCPO8889

CAT 5e Patch Cable designed for high performance in a CAT 5e link. CAT 5e Patch Cables come with standard T568B Wiring. Available in 5 colors Black, Blue, Gray, White, and Yellow.

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| Part No. | Length | Each | 10 - 19 20% Off | 20 or More 35% Off |
|------------|--------|--------|--------------------|-----------------------|
| GCPO888903 | 3 ft | \$0.91 | \$0.73 | \$0.59 |
| GCPO888905 | 5 ft | \$1.22 | \$0.98 | \$0.79 |
| GCPO888907 | 7 ft | \$1.53 | \$1.22 | \$0.99 |
| GCPO888910 | 10 ft | \$1.99 | \$1.59 | \$1.29 |
| GCPO888914 | 14 ft | \$2.80 | \$2.08 | \$1.69 |
| GCPO888920 | 20 ft | \$3.52 | \$2.82 | \$2.29 |
| GCPO888925 | 25 ft | \$4.29 | \$3.43 | \$2.79 |

GCPO8859

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LC to LC - Multimode Duplex Fiber Optic Patch Cable. LC cables are available in 50µ and 62.5µ (62.5 is Standard) and in any cable length.

The LC fiber optic connector interface is based on a 1.25mm ceramic ferrule and the familiar latching mechanism of the RJ-45 modular plug and jack. The LC connector is a small-form-factor connector that offers a port density equal to the modular jack.

| Part # | Cable Length | Unit Price | 8-9 20% Off | 10-19 25% Off | 20 or more 30% Off |
|-----------|--------------|------------|----------------|------------------|-----------------------|
| GCFAZLL01 | 1 m | 43.94 | 35.15 | 32.95 | 30.76 |
| GCFAZLL02 | 2 m | 45.70 | 36.56 | 34.27 | 31.99 |
| GCFAZLL03 | 3 m | 47.46 | 37.97 | 35.59 | 33.22 |
| GCFAZLL05 | 5 m | 50.98 | 40.78 | 38.23 | 36.68 |
| GCFAZLL10 | 10 m | 59.78 | 47.82 | 44.83 | 41.84 |

Standard Length Cable Pricing

Custom Length Cable Pricing

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The GoCables production facility is well equipped with Videonn(TM) video inspection scope and monitor for easy detection of scratches, cracks, dirt and any other undesirable conditions during production. Optical fiber inspection scopes are used for final inspection. Polishing of the ceramic ferrule

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