



TPC Benchmark[™] C Full Disclosure Report

**Unisys ES7000/one
Enterprise Server (8s)**

using

**Microsoft SQL Server 2005,
Enterprise x64 Edition**

on

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

**First Edition
March 23, 2007**

First Edition - March 2007

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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 transaction 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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Abstract

Overview

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

TPC Benchmark Metrics

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

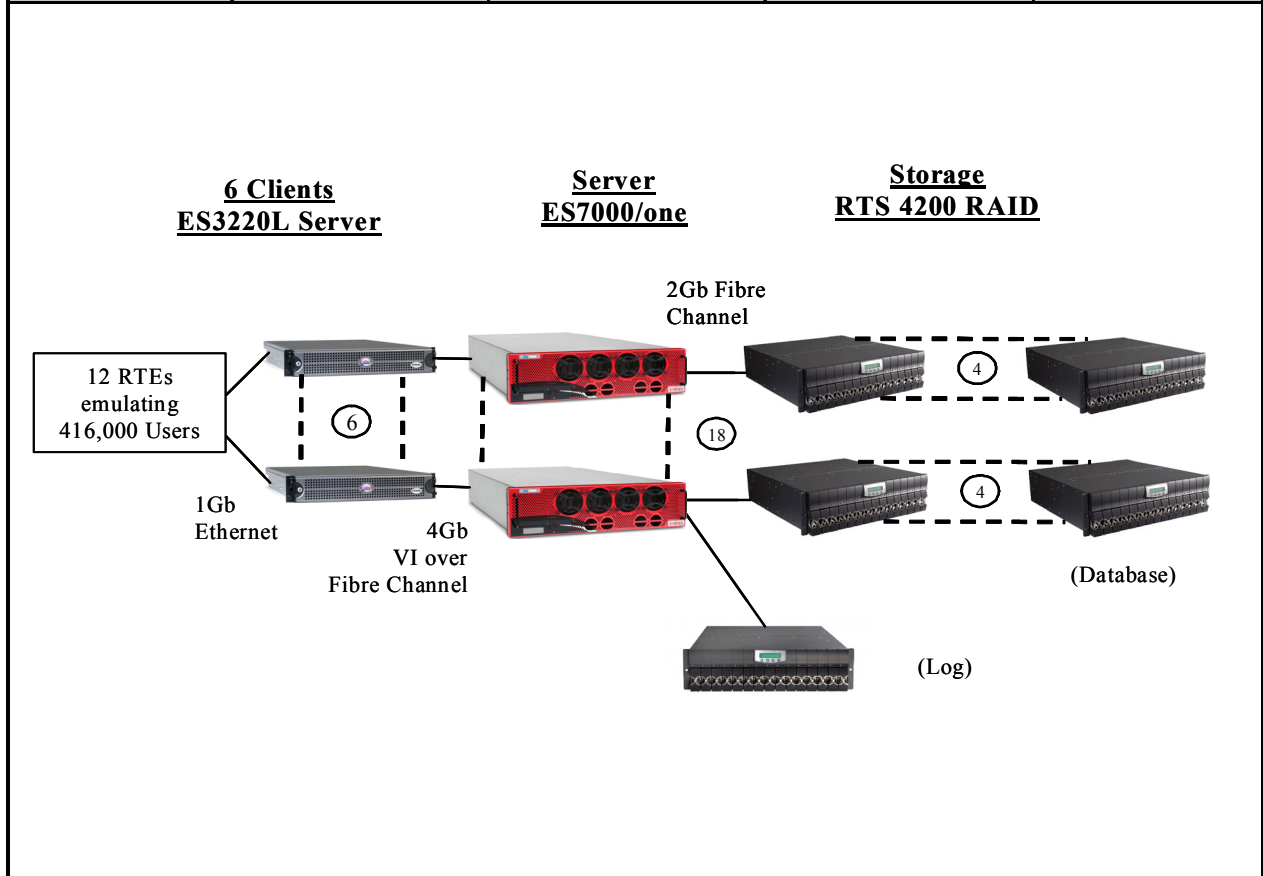
Executive Summary

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

Auditor

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

UNISYS		ES7000/one Enterprise Server (8s)		TPC-C 5.8.0 TPC Pricing 1.1.0	
				Report Date March 23, 2007	
Total System Cost		TPC-C Throughput		Price/Performance	
\$1,420,245 USD		520,467 tpmC		\$2.73 USD/tpmC	
Processors/ Cores/Threads		Database Manager		Operating System	
8/16/32 Database 6/12/12 Clients		Microsoft SQL Server 2005 Enterprise x64 Edition		Microsoft Windows Server 2003, Enterprise x64 Edition	
				Other Software	
				Windows Server 2003 w/ IIS 6.0 and COM+ Microsoft Visual C++	
				Number of Users	
				416,000	
Total System Cost		TPC-C Throughput		Price/Performance	
\$1,420,245 USD		520,467 tpmC		\$2.73 USD/tpmC	
				Availability Date	
				May 1, 2007	



System Components	Server		Each Client (6)	
	Qty.		Qty.	
Processors/Cores/Threads Cache	8/16/32	Intel® Dual-Core Xeon® Processo 7140M 3.4GHz, 16MB L3 Cache	1/2/2	Intel® 64-bit Dual-Core Proc 5140 2.33GHz, 4MB L2 Cache
Memory	1	256GB (4GB DIMMs)	1	2GB (1GB DIMMs)
Disk Controllers	10 1	PCI Fibre Channel PCI SAS RAID (boot)	1	Inbuilt SAS
Disk Drives	1080 26 2	73GB FC 15K rpm 146GB FC 15K rpm 73GB SAS 15K rpm (boot media)	1	73GB SAS 15K rpm
Total Storage		74.4 TB		67.7 GB
Other	4 3 4	Inbuilt 1Gb 2-Port NIC (0 used) PCI VI-over-FC Controller IDE DVD/CD R/RW (1 used)	2 1 1	Inbuilt 1Gb NIC (1 used) PCI VI-over-FC Controller IDE CD-ROM

UNISYS	ES7000/one Enterprise Server (8s)		TPC-C 5.8.0 TPC Pricing 1.0.1			
			Report Date March 23, 2007			
Description	Part Number	Price Source	Unit Price	Qty.	Extended Price	3-yr.Maint. Price
Server Hardware:						
40U Rack with top and Rear Doors	RCK4019421-FSS	1	\$2,470	1	\$2,470	
Rack Open Fron Trim Kit	RCK4019421-OTK	1	\$238	1	\$238	
4 Outlet PDU with Cord	PWR4201-220	1	\$189	4	\$756	
Information Kit	CTM6005-CBI	1	\$1	1	\$1	
ES7000/one (8 Processors 32 GB Memory)	ES7112086-700	1	\$144,875	1	\$144,875	\$6,840
VI Interface to Client, dual port	FCH7440231-PCX	1	\$1,900	3	\$5,700	
Fibre Channel HBA, dual port	FC76222-P64	1	\$2,850	10	\$28,500	
Boot Disk (2x73GB LSI Disk)	FAC7100722-IDK	1	\$1,853	1	\$1,853	
Initial Memory (8 GB)	FAC7102402-ICA	1	\$9,880	4	\$39,520	
Memory Expansion (64 GB)	FAC7116402-64G	1	\$59,584	3	\$178,752	
SWTCH: KVM 16-Port PS/2-Cat5	KVM9163101-SWC	1	\$1,805	1	\$1,805	
Adapter PS2 to CAT5	KVM9001301-CNV	1	\$114	1	\$114	
I/F: Monitor, 17-inch LCD, Kybrd, Mse & Cable	ES70004-UIF	1	\$618	1	\$618	
Subtotal					\$405,202	\$6,840
Server Software:						
O/S: Windows 2003 Srvr, EE x64 Edtn, 8P	P72-00274	2	\$2,334	1	\$2,334	\$0
Microsoft SQL Server 2005 Enterprise x64 Edtn.	810-03150	2	\$23,911	8	\$191,288	
SRVC: Microsoft Problem Resolution Services **		2	\$245	1		\$245
Subtotal					\$193,622	\$245
Storage Hardware:						
CAB: 36U x 19" x 41" Open Front Cabinet	HRT361941-OFT	1	\$1,425	7	\$9,975	
Power Strip (8 Outlet)	SFR9-PWR	1	\$162	21	\$3,402	
Power Cord	USE1936-LC6	1	\$86	21	\$1,806	
FC Cable (20m)	GCFAZLLM20-M	3	\$35	25	\$868	
Ethernet Cables	GCP0888925-BK	3	\$4	22	\$84	
Netgear 16 Port Switch	FS116	4	\$60	4	\$240	Spared
Basic Enclosure (50 Pkg)	RTS412880-P50	1	\$212,548	1	\$212,548	
Basic Enclosure (5 Pkg)	RTS412880-P05	1	\$41,539	1	\$41,539	
RAID Controller	RTS422880-P01	1	\$13,544	3	\$40,632	
RAID Controller (15 Pkg)	RTS422880-P15	1	\$57,807	1	\$57,807	
Link Cable -1 Meter	RTS400650-P01	1	\$108	1	\$108	
Link Cable (5 Pkg)	RTS400650-P05	1	\$521	1	\$521	
Link Cable (50 Pkg)	RTS400650-P50	1	\$2,896	1	\$2,896	
Optical Transceiver	RTS400150-P01	1	\$203	2	\$406	
Optical Transceiver (10 Pkg)	RTS400150-P10	1	\$1,874	1	\$1,874	
Optical Transceiver (60 Pkg)	RTS400150-P60	1	\$6,005	2	\$12,010	
Power Cord	RTS400740-1	1	\$13	148	\$1,924	
Rack Mount Kit	RTS400012-P01	1	\$813	2	\$1,626	
Rack Mount Kit (5 Pkg)	RTS400012-P05	1	\$1,800	1	\$1,800	
Rack Mount Kit (10 Pkg)	RTS400012-P10	1	\$6,152	1	\$6,152	
Rack Mount Kit (20 Pkg)	RTS400012-P20	1	\$7,915	1	\$7,915	
Battery Backup	RTS420020-BAT	1	\$542	1	\$542	
73 GB Disk Drive(70 Pkgs with 15 drives in each)	RTS4307315-P70	1	\$486,802	1	\$486,802	
73 GB Disk Drive (15 Drives)	RTS4307315-P01	1	\$14,118	2	\$28,236	
SAN Manager Software	RTS44101-SAN	1	\$4,334	1	\$4,334	
Dual Controller RAID Enclosure	RTS422880-2X2	1	\$21,129	1	\$21,129	
146 GB Disk Drive (Pkg of 30 drives)	RTS4314615-P30	1	\$23,077	1	\$23,077	
UPS	RTS412120-UPS	1	\$2,438	1	\$2,438	
Subtotal					\$972,690	\$0
Client Hardware:						
Single 2.33 Ghz Processor System with 4 MB cache	ESL3220201-233	1	\$2,180	6	\$13,080	\$3,042
Brand Kit	ESL322001-UNI	1	\$26	6	\$156	
Internal CD ROM	CDR3220650-INT	1	\$40	6	\$240	
CD ROM Cable	CBL322001-CD	1	\$26	6	\$156	
SAS Disk Controller	SAL322001-S5I	1	\$91	6	\$546	
73 GB Hard Drive	HDP73110-SAS	1	\$398	6	\$2,388	
PCI-X Riser	PWA322001-PCX	1	\$53	6	\$318	
USB PS2	ADP3000-U2P	1	\$26	6	\$156	
2 GB Memory Kit	DIM3220042-2GB	1	\$862	6	\$5,172	
Mounting Rails for Rack Mount	ESL322001-RVR	1	\$332	6	\$1,992	
KVM Switch Cable	CBL12161-KVM	1	\$80	6	\$480	
Bezel	ESL322001-BZL	1	\$26	6	\$156	
Fiber Channel Card to Database	FCH7440231-PCX	1	\$1,900	6	\$11,400	
Subtotal					\$36,240	\$3,042
Client Software:						
O/S: Windows Server 2003, Standard Edition	P73-00295	2	\$719	6	\$4,314	** Inc. above
ACC: Microsoft Visual C++ Standard Edition	254-00170	2	\$109	1	\$109	** Inc. above
Subtotal					\$4,423	\$0
Computer Resolutions Inc. 15% Volume Cash Discount (Ext.Price where Price Source=1)					(\$211,941)	
Benchmark results and test methodology audited by Lorna Livingtree of Performance Metrics, Inc.					Total USD	\$1,410,363
						\$9,882
Notes: 1. * 10% or minimum 2 spares are added in place of onsite service.				3-Year Cost of Ownership: \$1,420,245 USD		
2. HW & SW maintenance at 24 x 7 w/ 4 hr. max. response time for spares.				tpmC Rating: 520,467		
3. Price Source: 1 = CRI/Unisys Maint 2 = Microsoft 3 = GoCables 4 = NewEgg.com				\$ / tpmC: \$2.73 USD		
Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on assumption about past or future purchases are not permitted. All discounts reflect standard pricing policies for the listed components. For complete details, see the pricing sections of the TPC benchmarks specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank You.						

Numerical Quantities Summary

MQTh, Computed Maximum Qualified Throughput: 520,467 tpmC

Response Times, in seconds

Transaction	90th %ile	Average	Maximum
New-Order	0.50	0.30	5.39
Payment	0.48	0.28	5.44
Order-Status	0.50	0.29	5.23
Delivery (interactive portion)	0.42	0.23	1.56
Delivery (deferred portion)	0.17	0.13	5.63
Stock-Level	0.81	0.54	2.23
Menu	0.42	0.23	1.92

Response time delay added for emulated components, in seconds

RT Response time	0.1
Menu Response time	0.1

Transaction Mix, in percent of total transactions

New Order	44.92%
Payment	43.03%
Order-Status	4.01%
Delivery (interactive portion)	4.00%
Stock-Level	4.02%

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	85 minutes
Measurement interval (M)	120 minutes
Transactions (all types) completed during measurement interval	139,013,734
Ramp-down time	3 minutes

Checkpointing:

Number of checkpoints	4
Checkpoint interval	30 minutes

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Preface

Document Structure

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

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

TPC Benchmark C Overview

The Transaction Processing Performance Council (TPC) developed The TPC Benchmark™ C Standard Specification Revision 5.8.0. 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.

Clause 0: General Items

0.1. Order and Titles

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

The order and titles of the sections in this report correspond with those from the TPC-C standard specification and the TPC specification (Clause 7 only).

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)

- o Measurement interval in minutes,
- o Number of checkpoints in the measurement interval,
- o Longest checkpoint interval in minutes,
- o Number of transactions (all types) completed within the measurement interval,
- o Computed Maximum Qualified Throughput in tpmC,
- o Ninetieth percentile, average and maximum response times for the New-Order, Payment, Order-Status, Stock-Level, Delivery (deferred and interactive) and Menu transactions,
- o Time in seconds added to response time to compensate for delays associated with emulated components,
- o 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 application program (as defined in Clause 2.1.7) must be disclosed. This includes, but is not limited to, the code implementing the five transactions and the terminal input 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)

- o Database tuning options.
- o Recovery/commit options.
- o Consistency/locking options.
- o Operating system and application configuration parameters.
- o Compilation and linkage options and run-time optimizations used to create/install applications, OS, and/or databases.

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

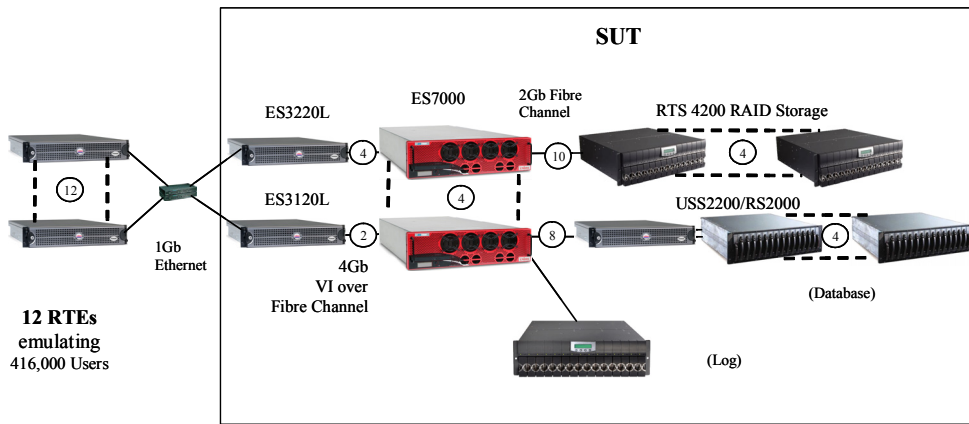
Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences. This includes, but is not limited to: (8.1.1.7)

- o Number of processors/cores/threads and type of processors.
- o Size of allocated memory, and any specific mapping/partitioning of memory unique to the test.
- o Number and type of disk units (and controllers, if applicable).
- o Number of channels or bus connections to disk units, including their protocol type.
- o 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).
- o Type and the run-time execution location of software components (e.g., DBMS, client processes, transaction monitors, software drivers, etc.).

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

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

Figure 0-1: Benchmarked Configuration



Clients (each of 4)

ES3220L Server
 1 x 2.33GHz Intel® Dual-core Xeon™ w/ 4MB L2 cache, 2 GB memory, 1 x 73GB internal disk, 1 x PCI VI controller, 2 Inbuilt 1Gb Eth. cntrls. (1 used).

Clients (each of 2)

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

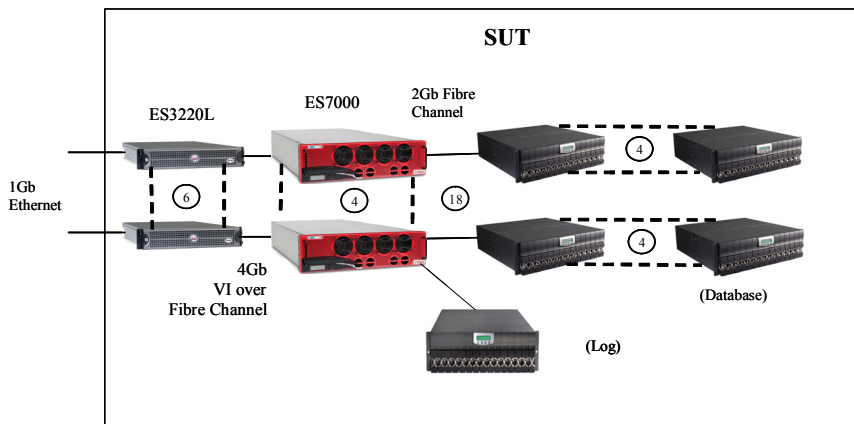
Server

ES7000
 8 x Intel® Dual-Core Xeon™ 3.4GHz w/ 16MB L3 cache, 256 GB memory, 2 x 36GB SAS disk, internal, 1 x PCI SAS RAID cntrl, internal, 10 x PCI Fibre Channel cntrls, 3 x PCI VI-over-FC cntrls, 4 Inbuilt 1Gb Eth. cntrls. (0 used).

Storage

RTS 4200 RAID Storage & USS2200/RS2000
 600 x 73GB + 448 x 18GB 26 x 146GB External Fibre Channel disks, 20 x FC RAID controllers

Figure 0-2: Priced Configuration



Clients (each of 6)

ES3220L Server
 1 x 2.33GHz Intel® Dual-core Xeon™ w/ 4MB L2 cache, 2 GB memory, 1 x 73GB internal disk, 1 x PCI VI controller, 2 Inbuilt 1Gb Eth. cntrls. (1 used).

Server

ES7000
 8 x Intel® Dual-Core Xeon™ 3.4GHz w/ 16MB L3 cache, 256 GB memory, 2 x 73GB SAS disk, internal, 1 x PCI SAS RAID cntrl, internal, 10 x PCI Fibre Channel cntrls, 3 x PCI VI-over-FC cntrls, 4 Inbuilt 1Gb Eth. cntrls. (0 used).

Storage

RTS 4200 RAID Storage
 1080 x 73GB 26 x 146GB External Fibre Channel disks, 20 x FC RAID controllers

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.

Clause 2: Transaction & Terminal Profiles

2.1. Random Number Generation

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

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

2.2. Input/Output Screen Layout

The actual layouts 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.

The percentage of New-Order transactions that were rolled back as a result of an unused item number must be disclosed. (8.1.3.5) (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.

Clause 3: Transaction & Terminal Profiles

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 database transaction to take the database from one consistent state to another, assuming that the database 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 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 5,262 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 52,620 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 52,620 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 five additional minutes of operation, a hot-pluggable data disk was removed from the disk cabinet.
6. Windows Enterprise x64 Edition 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 the disk's System Manager, was used to recreate the stripe set containing the new data disk. (The missing log drive was not replaced.)
10. The SUT was restarted, SQL Server was then restarted, and a new (empty) database created as part of the restore database process. That process loaded the initial database into the new database, but did not perform any recovery. Next the transaction log was restored, followed by transaction recovery. The latter step restored all committed transactions to the database.
11. Consistency condition 3 of Clause 3.3.2.3 was executed to verify database consistency.
12. Step 2 was repeated to determine the total number of orders. This number was subtracted from the count obtained previously in Step 2 to determine the number of additional orders added to the database.
13. The contents of the "success" files on the drivers were sampled to verify that the records in the "success" file for committed New-Order transactions had corresponding records in the ORDER table. Step 1 was repeated to determine the total number of orders (count2). Count2 minus count1 was not less than the number of committed New-Order records in the "success" file from the drivers.

3.5.2. Instantaneous Interruption and Loss of Memory

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

1. The D_NEXT_O_ID fields for all rows in the district table were summed up to determine the initial count of orders present in the database (count1).
2. On the driver systems, committed and rolled back New-Order transactions were recorded in a "success" file.
3. The benchmark was executed at full load with all emulated users for a minimum of five 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.

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 42,500 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	42,500
District	425,000
Customer	1,275,000,000
History	1,275,000,000
Order	1,275,000,000
New-Order	382,500,000
Order Line	12,749,953,860
Stock	4,250,000,000
Item	100,000

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

4.2. Constant Values

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

Table 4.2: Constant C for NURand

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

4.3. Database Layout

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

Tables 4.3 and 4.5 list the distribution of the database over 1080 73GB disks and the transaction log over 13 mirrored pairs of 146GB disks for both the priced and tested databases. In addition, there were two 73GB mirrored disks in the host server containing Windows Server 2003, Enterprise x64 Edition and SQL Server 2005 Enterprise x64 Edition code and the master database plus the paging file. Unused-space partitions on the database drives were used for database backup. These partitions were not used during the measurements.

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

A statement must be provided that describes: (8.1.5.3)

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

Microsoft SQL Server 2005 is a relational DBMS.

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

4.5. DBMS Partitions/Replications

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

No table partitioning or replication was done.

4.6. DBMS Space Requirements

Details of the 60-day space computations 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

CELL-3	2x3.4GHz DC Xeon Processor MP	FC-HBA-IQST7	FC-HBA-IQST8			FC-HBA-IQST9
	64GB RAM					
CELL-2	2x3.4GHz DC Xeon Processor MP	VI-Controller-3	FC-HBA-IQST5			FC-HBA-IQST6
	64GB RAM					
CELL-1	2x3.4GHz DC Xeon Processor MP	VI-Controller-2	FC-HBA-IQST3			FC-HBA-IQST4
	64GB RAM					
CELL-0	2x3.4GHz DC Xeon Processor MP	VI-Controller-1	FC-HBA-LOG	FC-HBA-IQST1		FC-HBA-IQST2
	64GB RAM					

Table 4.5: Disk Management Configuration

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

Controller	HBA	Logical Disk#	Partition 1 Size=1.72TB FS=Raw Junction Point
DKcont1-2	1	1	C:\BigDb\dbLogs\tpcclog1

Disk Management Priced Configuration							
Controller	HBA	Logical Disk#	Partition 1 Size=17.11GB FS=Raw Junction Point	Partition 2 Size=24.92GB FS=Raw Junction Point	Partition 3 Size=12.71GB FS=Raw Junction Point	Partition 4 Size=953.20GB FS=NTFS Junction Point	
DKcont3	2-port1	2	C:\BigDb\cabA\ord1	C:\BigDb\cabA\es1	C:\BigDb\cabA\misc1	C:\BigDb\dbBackups\backupA1	
		3	C:\BigDb\cabA\ord2	C:\BigDb\cabA\es2	C:\BigDb\cabA\misc2	C:\BigDb\dbBackups\backupA2	
		4	C:\BigDb\cabA\ord3	C:\BigDb\cabA\es3	C:\BigDb\cabA\misc3	C:\BigDb\dbBackups\backupA3	
		5	C:\BigDb\cabA\ord4	C:\BigDb\cabA\es4	C:\BigDb\cabA\misc4	C:\BigDb\dbBackups\backupA4	
DKcont4	2-port2	6	C:\BigDb\cabB\ord1	C:\BigDb\cabB\es1	C:\BigDb\cabB\misc1	C:\BigDb\dbBackups\backupB1	
		7	C:\BigDb\cabB\ord2	C:\BigDb\cabB\es2	C:\BigDb\cabB\misc2	C:\BigDb\dbBackups\backupB2	
		8	C:\BigDb\cabB\ord3	C:\BigDb\cabB\es3	C:\BigDb\cabB\misc3	C:\BigDb\dbBackups\backupB3	
		9	C:\BigDb\cabB\ord4	C:\BigDb\cabB\es4	C:\BigDb\cabB\misc4	C:\BigDb\dbBackups\backupB4	
DKcont5	3-port1	10	C:\BigDb\cabC\ord1	C:\BigDb\cabC\es1	C:\BigDb\cabC\misc1	C:\BigDb\dbBackups\backupC1	
		11	C:\BigDb\cabC\ord2	C:\BigDb\cabC\es2	C:\BigDb\cabC\misc2	C:\BigDb\dbBackups\backupC2	
		12	C:\BigDb\cabC\ord3	C:\BigDb\cabC\es3	C:\BigDb\cabC\misc3	C:\BigDb\dbBackups\backupC3	
		13	C:\BigDb\cabC\ord4	C:\BigDb\cabC\es4	C:\BigDb\cabC\misc4	C:\BigDb\dbBackups\backupC4	
DKcont6	3-port2	14	C:\BigDb\cabD\ord1	C:\BigDb\cabD\es1	C:\BigDb\cabD\misc1	C:\BigDb\dbBackups\backupD1	
		15	C:\BigDb\cabD\ord2	C:\BigDb\cabD\es2	C:\BigDb\cabD\misc2	C:\BigDb\dbBackups\backupD2	
		16	C:\BigDb\cabD\ord3	C:\BigDb\cabD\es3	C:\BigDb\cabD\misc3	C:\BigDb\dbBackups\backupD3	
		17	C:\BigDb\cabD\ord4	C:\BigDb\cabD\es4	C:\BigDb\cabD\misc4	C:\BigDb\dbBackups\backupD4	
DKcont7	4-port1	18	C:\BigDb\cabE\ord1	C:\BigDb\cabE\es1	C:\BigDb\cabE\misc1	C:\BigDb\dbBackups\backupE1	
		19	C:\BigDb\cabE\ord2	C:\BigDb\cabE\es2	C:\BigDb\cabE\misc2	C:\BigDb\dbBackups\backupE2	
		20	C:\BigDb\cabE\ord3	C:\BigDb\cabE\es3	C:\BigDb\cabE\misc3	C:\BigDb\dbBackups\backupE3	
		21	C:\BigDb\cabE\ord4	C:\BigDb\cabE\es4	C:\BigDb\cabE\misc4	C:\BigDb\dbBackups\backupE4	
DKcont8	4-port2	22	C:\BigDb\cabF\ord1	C:\BigDb\cabF\es1	C:\BigDb\cabF\misc1	C:\BigDb\dbBackups\backupF1	
		23	C:\BigDb\cabF\ord2	C:\BigDb\cabF\es2	C:\BigDb\cabF\misc2	C:\BigDb\dbBackups\backupF2	
		24	C:\BigDb\cabF\ord3	C:\BigDb\cabF\es3	C:\BigDb\cabF\misc3	C:\BigDb\dbBackups\backupF3	
		25	C:\BigDb\cabF\ord4	C:\BigDb\cabF\es4	C:\BigDb\cabF\misc4	C:\BigDb\dbBackups\backupF4	
DKcont9	5-port1	26	C:\BigDb\cabG\ord1	C:\BigDb\cabG\es1	C:\BigDb\cabG\misc1	C:\BigDb\dbBackups\backupG1	
		27	C:\BigDb\cabG\ord2	C:\BigDb\cabG\es2	C:\BigDb\cabG\misc2	C:\BigDb\dbBackups\backupG2	
		28	C:\BigDb\cabG\ord3	C:\BigDb\cabG\es3	C:\BigDb\cabG\misc3	C:\BigDb\dbBackups\backupG3	
		29	C:\BigDb\cabG\ord4	C:\BigDb\cabG\es4	C:\BigDb\cabG\misc4	C:\BigDb\dbBackups\backupG4	
DKcont10	5-port2	30	C:\BigDb\cabH\ord1	C:\BigDb\cabH\es1	C:\BigDb\cabH\misc1	C:\BigDb\dbBackups\backupH1	
		31	C:\BigDb\cabH\ord2	C:\BigDb\cabH\es2	C:\BigDb\cabH\misc2	C:\BigDb\dbBackups\backupH2	
		32	C:\BigDb\cabH\ord3	C:\BigDb\cabH\es3	C:\BigDb\cabH\misc3	C:\BigDb\dbBackups\backupH3	
		33	C:\BigDb\cabH\ord4	C:\BigDb\cabH\es4	C:\BigDb\cabH\misc4	C:\BigDb\dbBackups\backupH4	
DKcont11	6-port1	34	C:\BigDb\cabI\ord1	C:\BigDb\cabI\es1	C:\BigDb\cabI\misc1	C:\BigDb\dbBackups\backupI1	
		35	C:\BigDb\cabI\ord2	C:\BigDb\cabI\es2	C:\BigDb\cabI\misc2	C:\BigDb\dbBackups\backupI2	
		36	C:\BigDb\cabI\ord3	C:\BigDb\cabI\es3	C:\BigDb\cabI\misc3	C:\BigDb\dbBackups\backupI3	
		37	C:\BigDb\cabI\ord4	C:\BigDb\cabI\es4	C:\BigDb\cabI\misc4	C:\BigDb\dbBackups\backupI4	
DKcont12	6-port2	38	C:\BigDb\cabJ\ord1	C:\BigDb\cabJ\es1	C:\BigDb\cabJ\misc1	C:\BigDb\dbBackups\backupJ1	
		39	C:\BigDb\cabJ\ord2	C:\BigDb\cabJ\es2	C:\BigDb\cabJ\misc2	C:\BigDb\dbBackups\backupJ2	
		40	C:\BigDb\cabJ\ord3	C:\BigDb\cabJ\es3	C:\BigDb\cabJ\misc3	C:\BigDb\dbBackups\backupJ3	
		41	C:\BigDb\cabJ\ord4	C:\BigDb\cabJ\es4	C:\BigDb\cabJ\misc4	C:\BigDb\dbBackups\backupJ4	
DKcont13	7-port1	42	C:\BigDb\cabK\ord1	C:\BigDb\cabK\es1	C:\BigDb\cabK\misc1	C:\BigDb\dbBackups\backupK1	
		43	C:\BigDb\cabK\ord2	C:\BigDb\cabK\es2	C:\BigDb\cabK\misc2	C:\BigDb\dbBackups\backupK2	
		44	C:\BigDb\cabK\ord3	C:\BigDb\cabK\es3	C:\BigDb\cabK\misc3	C:\BigDb\dbBackups\backupK3	
		45	C:\BigDb\cabK\ord4	C:\BigDb\cabK\es4	C:\BigDb\cabK\misc4	C:\BigDb\dbBackups\backupK4	
DKcont14	7-port2	46	C:\BigDb\cabL\ord1	C:\BigDb\cabL\es1	C:\BigDb\cabL\misc1	C:\BigDb\dbBackups\backupL1	
		47	C:\BigDb\cabL\ord2	C:\BigDb\cabL\es2	C:\BigDb\cabL\misc2	C:\BigDb\dbBackups\backupL2	
		48	C:\BigDb\cabL\ord3	C:\BigDb\cabL\es3	C:\BigDb\cabL\misc3	C:\BigDb\dbBackups\backupL3	
		49	C:\BigDb\cabL\ord4	C:\BigDb\cabL\es4	C:\BigDb\cabL\misc4	C:\BigDb\dbBackups\backupL4	

Table 4.5: Disk Management Configuration (Continued)

Disk Management Priced Configuration						
Controller	HBA	Logical Disk#	Partition 1	Partition 2	Partition 3	Partition 4
			Size=17.11GB FS=Raw Junction Point	Size=24.92GB FS=Raw Junction Point	Size=12.71GB FS=Raw Junction Point	Size=953.20GB FS=NTFS Junction Point
DKcont15	8-port1	50	C:\BigDb\cabMord1	C:\BigDb\cabMcs1	C:\BigDb\cabMmisc1	C:\BigDb\dbBackups\backupM1
		51	C:\BigDb\cabMord2	C:\BigDb\cabMcs2	C:\BigDb\cabMmisc2	C:\BigDb\dbBackups\backupM2
		52	C:\BigDb\cabMord3	C:\BigDb\cabMcs3	C:\BigDb\cabMmisc3	C:\BigDb\dbBackups\backupM3
		53	C:\BigDb\cabMord4	C:\BigDb\cabMcs4	C:\BigDb\cabMmisc4	C:\BigDb\dbBackups\backupM4
DKcont16	8-port2	54	C:\BigDb\cabNord1	C:\BigDb\cabNcs1	C:\BigDb\cabNmisc1	C:\BigDb\dbBackups\backupN1
		55	C:\BigDb\cabNord2	C:\BigDb\cabNcs2	C:\BigDb\cabNmisc2	C:\BigDb\dbBackups\backupN2
		56	C:\BigDb\cabNord3	C:\BigDb\cabNcs3	C:\BigDb\cabNmisc3	C:\BigDb\dbBackups\backupN3
		57	C:\BigDb\cabNord4	C:\BigDb\cabNcs4	C:\BigDb\cabNmisc4	C:\BigDb\dbBackups\backupN4
DKcont17	9-port1	58	C:\BigDb\cabOord1	C:\BigDb\cabOcs1	C:\BigDb\cabOmisc1	C:\BigDb\dbBackups\backupO1
		59	C:\BigDb\cabOord2	C:\BigDb\cabOcs2	C:\BigDb\cabOmisc2	C:\BigDb\dbBackups\backupO2
		60	C:\BigDb\cabOord3	C:\BigDb\cabOcs3	C:\BigDb\cabOmisc3	C:\BigDb\dbBackups\backupO3
		61	C:\BigDb\cabOord4	C:\BigDb\cabOcs4	C:\BigDb\cabOmisc4	C:\BigDb\dbBackups\backupO4
DKcont18	9-port2	62	C:\BigDb\cabPord1	C:\BigDb\cabPcs1	C:\BigDb\cabPmisc1	C:\BigDb\dbBackups\backupP1
		63	C:\BigDb\cabPord2	C:\BigDb\cabPcs2	C:\BigDb\cabPmisc2	C:\BigDb\dbBackups\backupP2
		64	C:\BigDb\cabPord3	C:\BigDb\cabPcs3	C:\BigDb\cabPmisc3	C:\BigDb\dbBackups\backupP3
		65	C:\BigDb\cabPord4	C:\BigDb\cabPcs4	C:\BigDb\cabPmisc4	C:\BigDb\dbBackups\backupP4
DKcont19	10-port1	66	C:\BigDb\cabQord1	C:\BigDb\cabQcs1	C:\BigDb\cabQmisc1	C:\BigDb\dbBackups\backupQ1
		67	C:\BigDb\cabQord2	C:\BigDb\cabQcs2	C:\BigDb\cabQmisc2	C:\BigDb\dbBackups\backupQ2
		68	C:\BigDb\cabQord3	C:\BigDb\cabQcs3	C:\BigDb\cabQmisc3	C:\BigDb\dbBackups\backupQ3
		69	C:\BigDb\cabQord4	C:\BigDb\cabQcs4	C:\BigDb\cabQmisc4	C:\BigDb\dbBackups\backupQ4
DKcont20	10-port2	70	C:\BigDb\cabRord1	C:\BigDb\cabRcs1	C:\BigDb\cabRmisc1	C:\BigDb\dbBackups\backupR1
		71	C:\BigDb\cabRord2	C:\BigDb\cabRcs2	C:\BigDb\cabRmisc2	C:\BigDb\dbBackups\backupR2
		72	C:\BigDb\cabRord3	C:\BigDb\cabRcs3	C:\BigDb\cabRmisc3	C:\BigDb\dbBackups\backupR3
		73	C:\BigDb\cabRord4	C:\BigDb\cabRcs4	C:\BigDb\cabRmisc4	C:\BigDb\dbBackups\backupR4

Table 4.5: Disk Management Configuration (Continued)

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

Controller	HBA	Logical Disk#	Partition 1 Size=1.72TB FS=Raw Junction Point
DKcont1-2	1	1	C:\BigDb\dbLogs\tpcclog1

Disk Management Tested Configuration							
Controller	HBA	Logical Disk#	Partition 1 Size=17.11GB FS=Raw Junction Point	Partition 2 Size=24.92GB FS=Raw Junction Point	Partition 3 Size=12.71GB FS=Raw Junction Point	Partition 4 Size=953.20GB FS=NTFS Junction Point	
DKcont3	2-port1	2	C:\BigDb\cabAord1	C:\BigDb\cabAcs1	C:\BigDb\cabAmisc1	C:\BigDb\dbBackups\backupA1	
		3	C:\BigDb\cabAord2	C:\BigDb\cabAcs2	C:\BigDb\cabAmisc2	C:\BigDb\dbBackups\backupA2	
		4	C:\BigDb\cabAord3	C:\BigDb\cabAcs3	C:\BigDb\cabAmisc3	C:\BigDb\dbBackups\backupA3	
		5	C:\BigDb\cabAord4	C:\BigDb\cabAcs4	C:\BigDb\cabAmisc4	C:\BigDb\dbBackups\backupA4	
DKcont4	2-port2	6	C:\BigDb\cabBord1	C:\BigDb\cabBcs1	C:\BigDb\cabBmisc1	C:\BigDb\dbBackups\backupB1	
		7	C:\BigDb\cabBord2	C:\BigDb\cabBcs2	C:\BigDb\cabBmisc2	C:\BigDb\dbBackups\backupB2	
		8	C:\BigDb\cabBord3	C:\BigDb\cabBcs3	C:\BigDb\cabBmisc3	C:\BigDb\dbBackups\backupB3	
		9	C:\BigDb\cabBord4	C:\BigDb\cabBcs4	C:\BigDb\cabBmisc4	C:\BigDb\dbBackups\backupB4	
DKcont5	3-port1	10	C:\BigDb\cabCord1	C:\BigDb\cabCcs1	C:\BigDb\cabCmisc1	C:\BigDb\dbBackups\backupC1	
		11	C:\BigDb\cabCord2	C:\BigDb\cabCcs2	C:\BigDb\cabCmisc2	C:\BigDb\dbBackups\backupC2	
		12	C:\BigDb\cabCord3	C:\BigDb\cabCcs3	C:\BigDb\cabCmisc3	C:\BigDb\dbBackups\backupC3	
		13	C:\BigDb\cabCord4	C:\BigDb\cabCcs4	C:\BigDb\cabCmisc4	C:\BigDb\dbBackups\backupC4	
DKcont6	3-port2	14	C:\BigDb\cabDord1	C:\BigDb\cabDcs1	C:\BigDb\cabDmisc1	C:\BigDb\dbBackups\backupD1	
		15	C:\BigDb\cabDord2	C:\BigDb\cabDcs2	C:\BigDb\cabDmisc2	C:\BigDb\dbBackups\backupD2	
		16	C:\BigDb\cabDord3	C:\BigDb\cabDcs3	C:\BigDb\cabDmisc3	C:\BigDb\dbBackups\backupD3	
		17	C:\BigDb\cabDord4	C:\BigDb\cabDcs4	C:\BigDb\cabDmisc4	C:\BigDb\dbBackups\backupD4	
DKcont7	4-port1	18	C:\BigDb\cabEord1	C:\BigDb\cabEcs1	C:\BigDb\cabEmisc1	C:\BigDb\dbBackups\backupE1	
		19	C:\BigDb\cabEord2	C:\BigDb\cabEcs2	C:\BigDb\cabEmisc2	C:\BigDb\dbBackups\backupE2	
		20	C:\BigDb\cabEord3	C:\BigDb\cabEcs3	C:\BigDb\cabEmisc3	C:\BigDb\dbBackups\backupE3	
		21	C:\BigDb\cabEord4	C:\BigDb\cabEcs4	C:\BigDb\cabEmisc4	C:\BigDb\dbBackups\backupE4	
DKcont8	4-port2	22	C:\BigDb\cabFord1	C:\BigDb\cabFcs1	C:\BigDb\cabFmisc1	C:\BigDb\dbBackups\backupF1	
		23	C:\BigDb\cabFord2	C:\BigDb\cabFcs2	C:\BigDb\cabFmisc2	C:\BigDb\dbBackups\backupF2	
		24	C:\BigDb\cabFord3	C:\BigDb\cabFcs3	C:\BigDb\cabFmisc3	C:\BigDb\dbBackups\backupF3	
		25	C:\BigDb\cabFord4	C:\BigDb\cabFcs4	C:\BigDb\cabFmisc4	C:\BigDb\dbBackups\backupF4	
DKcont9	5-port1	26	C:\BigDb\cabGord1	C:\BigDb\cabGcs1	C:\BigDb\cabGmisc1	C:\BigDb\dbBackups\backupG1	
		27	C:\BigDb\cabGord2	C:\BigDb\cabGcs2	C:\BigDb\cabGmisc2	C:\BigDb\dbBackups\backupG2	
		28	C:\BigDb\cabGord3	C:\BigDb\cabGcs3	C:\BigDb\cabGmisc3	C:\BigDb\dbBackups\backupG3	
		29	C:\BigDb\cabGord4	C:\BigDb\cabGcs4	C:\BigDb\cabGmisc4	C:\BigDb\dbBackups\backupG4	
DKcont10	5-port2	30	C:\BigDb\cabHord1	C:\BigDb\cabHcs1	C:\BigDb\cabHmisc1	C:\BigDb\dbBackups\backupH1	
		31	C:\BigDb\cabHord2	C:\BigDb\cabHcs2	C:\BigDb\cabHmisc2	C:\BigDb\dbBackups\backupH2	
		32	C:\BigDb\cabHord3	C:\BigDb\cabHcs3	C:\BigDb\cabHmisc3	C:\BigDb\dbBackups\backupH3	
		33	C:\BigDb\cabHord4	C:\BigDb\cabHcs4	C:\BigDb\cabHmisc4	C:\BigDb\dbBackups\backupH4	
DKcont11	6-port1	34	C:\BigDb\cabIord1	C:\BigDb\cabIcs1	C:\BigDb\cabImisc1	C:\BigDb\dbBackups\backupI1	
		35	C:\BigDb\cabIord2	C:\BigDb\cabIcs2	C:\BigDb\cabImisc2	C:\BigDb\dbBackups\backupI2	
		36	C:\BigDb\cabIord3	C:\BigDb\cabIcs3	C:\BigDb\cabImisc3	C:\BigDb\dbBackups\backupI3	
		37	C:\BigDb\cabIord4	C:\BigDb\cabIcs4	C:\BigDb\cabImisc4	C:\BigDb\dbBackups\backupI4	
DKcont12	6-port2	38	C:\BigDb\cabJord1	C:\BigDb\cabJcs1	C:\BigDb\cabJmisc1	C:\BigDb\dbBackups\backupJ1	
		39	C:\BigDb\cabJord2	C:\BigDb\cabJcs2	C:\BigDb\cabJmisc2	C:\BigDb\dbBackups\backupJ2	
		40	C:\BigDb\cabJord3	C:\BigDb\cabJcs3	C:\BigDb\cabJmisc3	C:\BigDb\dbBackups\backupJ3	
		41	C:\BigDb\cabJord4	C:\BigDb\cabJcs4	C:\BigDb\cabJmisc4	C:\BigDb\dbBackups\backupJ4	

Table 4.5: Disk Management Configuration (Continued)

Disk Management Tested Configuration						
Controller	HBA	Logical Disk#	Partition 1 Size=17.11GB FS=Raw Junction Point	Partition 2 Size=24.92GB FS=Raw Junction Point	Partition 3 Size=12.71GB FS=Raw Junction Point	Partition 4 Size=184.52GB FS=NTFS Junction Point
USS1	7-port1	42	C:\BigDb\cabK\ord1	C:\BigDb\cabK\cs1	C:\BigDb\cabK\misc1	C:\BigDb\dbBackups\backupK1
		43	C:\BigDb\cabK\ord2	C:\BigDb\cabK\cs2	C:\BigDb\cabK\misc2	C:\BigDb\dbBackups\backupK2
		44	C:\BigDb\cabK\ord3	C:\BigDb\cabK\cs3	C:\BigDb\cabK\misc3	C:\BigDb\dbBackups\backupK3
		45	C:\BigDb\cabK\ord4	C:\BigDb\cabK\cs4	C:\BigDb\cabK\misc4	C:\BigDb\dbBackups\backupK4
USS2	7-port2	46	C:\BigDb\cabL\ord1	C:\BigDb\cabL\cs1	C:\BigDb\cabL\misc1	C:\BigDb\dbBackups\backupL1
		47	C:\BigDb\cabL\ord2	C:\BigDb\cabL\cs2	C:\BigDb\cabL\misc2	C:\BigDb\dbBackups\backupL2
		48	C:\BigDb\cabL\ord3	C:\BigDb\cabL\cs3	C:\BigDb\cabL\misc3	C:\BigDb\dbBackups\backupL3
		49	C:\BigDb\cabL\ord4	C:\BigDb\cabL\cs4	C:\BigDb\cabL\misc4	C:\BigDb\dbBackups\backupL4
USS3	8-port1	50	C:\BigDb\cabM\ord1	C:\BigDb\cabM\cs1	C:\BigDb\cabM\misc1	C:\BigDb\dbBackups\backupM1
		51	C:\BigDb\cabM\ord2	C:\BigDb\cabM\cs2	C:\BigDb\cabM\misc2	C:\BigDb\dbBackups\backupM2
		52	C:\BigDb\cabM\ord3	C:\BigDb\cabM\cs3	C:\BigDb\cabM\misc3	C:\BigDb\dbBackups\backupM3
		53	C:\BigDb\cabM\ord4	C:\BigDb\cabM\cs4	C:\BigDb\cabM\misc4	C:\BigDb\dbBackups\backupM4
USS4	8-port2	54	C:\BigDb\cabN\ord1	C:\BigDb\cabN\cs1	C:\BigDb\cabN\misc1	C:\BigDb\dbBackups\backupN1
		55	C:\BigDb\cabN\ord2	C:\BigDb\cabN\cs2	C:\BigDb\cabN\misc2	C:\BigDb\dbBackups\backupN2
		56	C:\BigDb\cabN\ord3	C:\BigDb\cabN\cs3	C:\BigDb\cabN\misc3	C:\BigDb\dbBackups\backupN3
		57	C:\BigDb\cabN\ord4	C:\BigDb\cabN\cs4	C:\BigDb\cabN\misc4	C:\BigDb\dbBackups\backupN4
USS5	9-port1	58	C:\BigDb\cabO\ord1	C:\BigDb\cabO\cs1	C:\BigDb\cabO\misc1	C:\BigDb\dbBackups\backupO1
		59	C:\BigDb\cabO\ord2	C:\BigDb\cabO\cs2	C:\BigDb\cabO\misc2	C:\BigDb\dbBackups\backupO2
		60	C:\BigDb\cabO\ord3	C:\BigDb\cabO\cs3	C:\BigDb\cabO\misc3	C:\BigDb\dbBackups\backupO3
		61	C:\BigDb\cabO\ord4	C:\BigDb\cabO\cs4	C:\BigDb\cabO\misc4	C:\BigDb\dbBackups\backupO4
USS6	9-port2	62	C:\BigDb\cabP\ord1	C:\BigDb\cabP\cs1	C:\BigDb\cabP\misc1	C:\BigDb\dbBackups\backupP1
		63	C:\BigDb\cabP\ord2	C:\BigDb\cabP\cs2	C:\BigDb\cabP\misc2	C:\BigDb\dbBackups\backupP2
		64	C:\BigDb\cabP\ord3	C:\BigDb\cabP\cs3	C:\BigDb\cabP\misc3	C:\BigDb\dbBackups\backupP3
		65	C:\BigDb\cabP\ord4	C:\BigDb\cabP\cs4	C:\BigDb\cabP\misc4	C:\BigDb\dbBackups\backupP4
USS7	10-port1	66	C:\BigDb\cabQ\ord1	C:\BigDb\cabQ\cs1	C:\BigDb\cabQ\misc1	C:\BigDb\dbBackups\backupQ1
		67	C:\BigDb\cabQ\ord2	C:\BigDb\cabQ\cs2	C:\BigDb\cabQ\misc2	C:\BigDb\dbBackups\backupQ2
		68	C:\BigDb\cabQ\ord3	C:\BigDb\cabQ\cs3	C:\BigDb\cabQ\misc3	C:\BigDb\dbBackups\backupQ3
		69	C:\BigDb\cabQ\ord4	C:\BigDb\cabQ\cs4	C:\BigDb\cabQ\misc4	C:\BigDb\dbBackups\backupQ4
USS8	10-port2	70	C:\BigDb\cabR\ord1	C:\BigDb\cabR\cs1	C:\BigDb\cabR\misc1	C:\BigDb\dbBackups\backupR1
		71	C:\BigDb\cabR\ord2	C:\BigDb\cabR\cs2	C:\BigDb\cabR\misc2	C:\BigDb\dbBackups\backupR2
		72	C:\BigDb\cabR\ord3	C:\BigDb\cabR\cs3	C:\BigDb\cabR\misc3	C:\BigDb\dbBackups\backupR3
		73	C:\BigDb\cabR\ord4	C:\BigDb\cabR\cs4	C:\BigDb\cabR\misc4	C:\BigDb\dbBackups\backupR4

Clause 5: Performance Metrics & Response Time

5.1. Measured Throughput (tpmC)

Measured tpmC must be reported. (8.1.6.1)

The measured tpmC was 520,467

5.2. Response Times

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

Table 5.1: Response Time Data

Transaction	Average	Maximum	90th %ile
New-Order	0.30	5.39	0.50
Payment	0.28	5.44	0.48
Order Status	0.29	5.23	0.50
Delivery (interactive)	0.23	1.56	0.42
Delivery (deferred)	0.13	5.63	0.17
Stock-Level	0.54	2.23	0.81
Menu	0.23	1.92	0.42

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

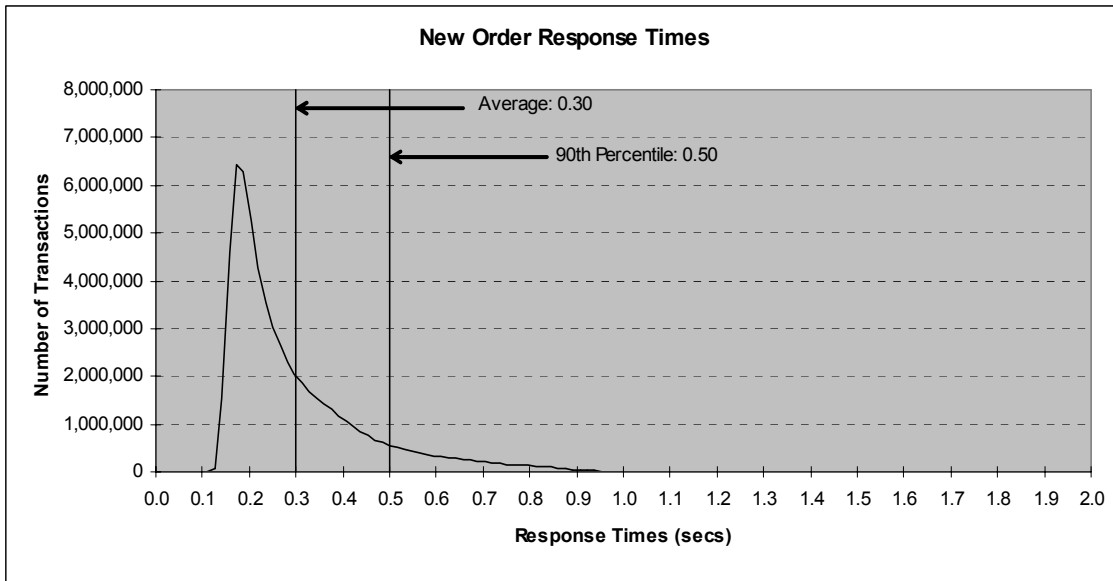


Figure 5.2: Payment Response Time Distribution

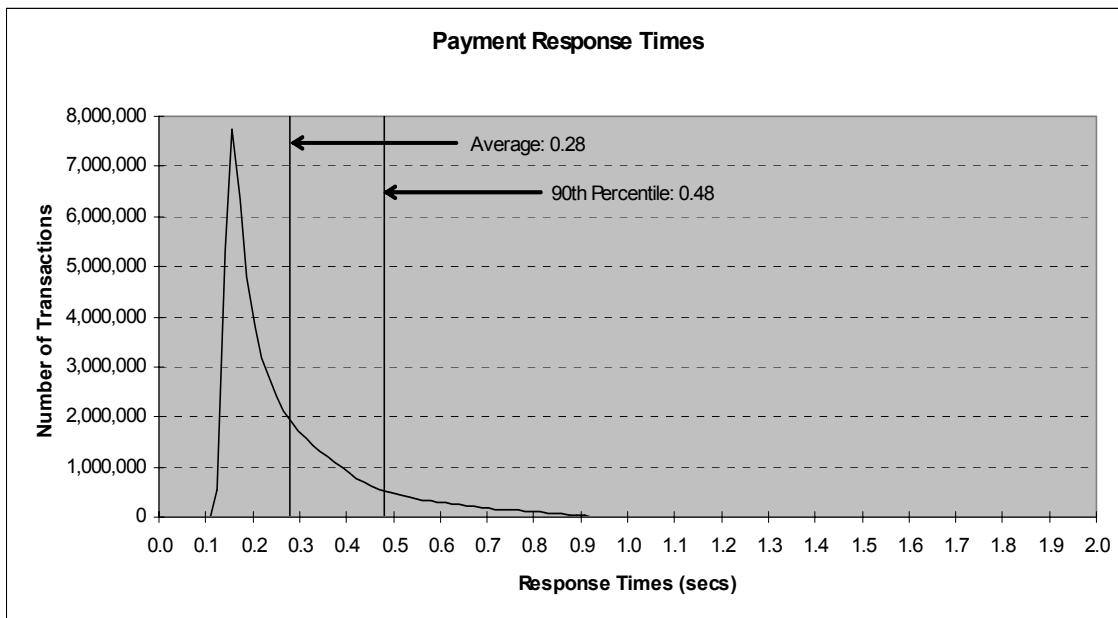


Figure 5.3: Order Status Response Time Distribution

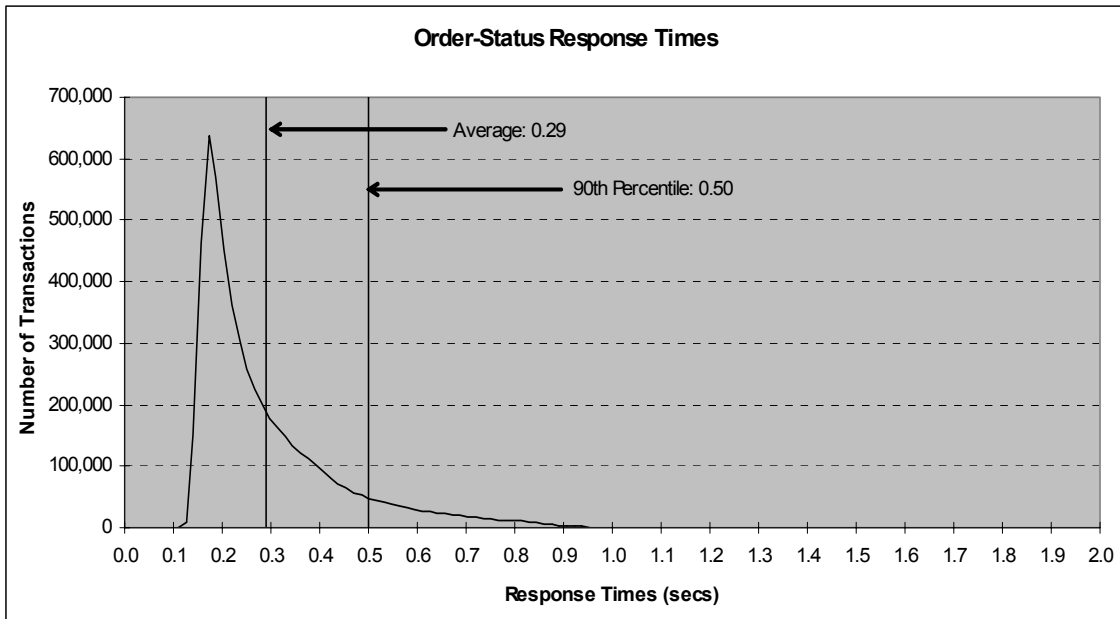


Figure 5.4: Delivery Response Time Distribution

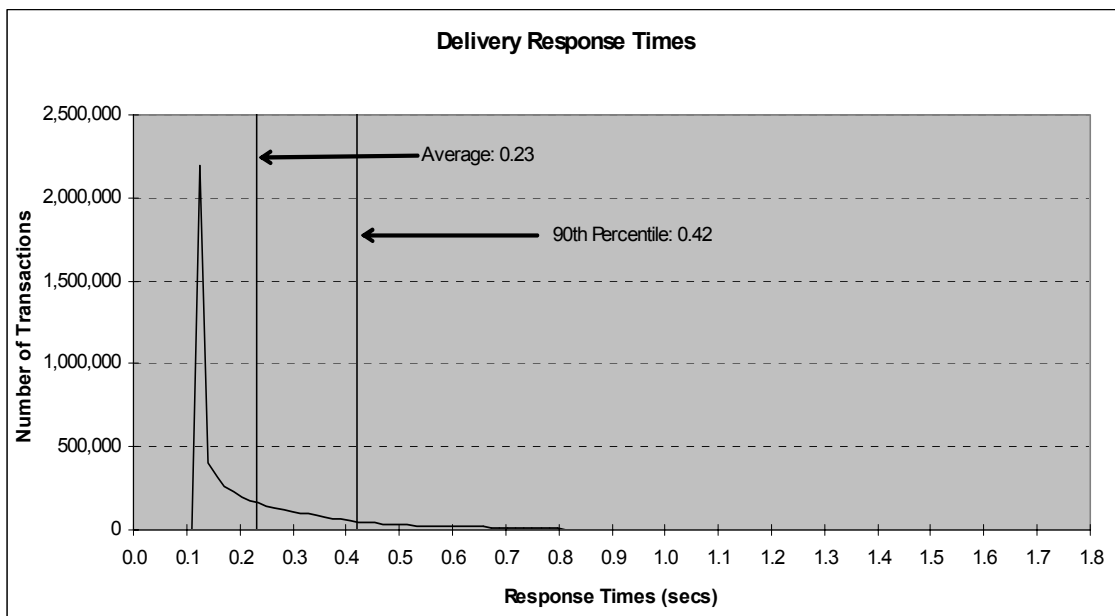
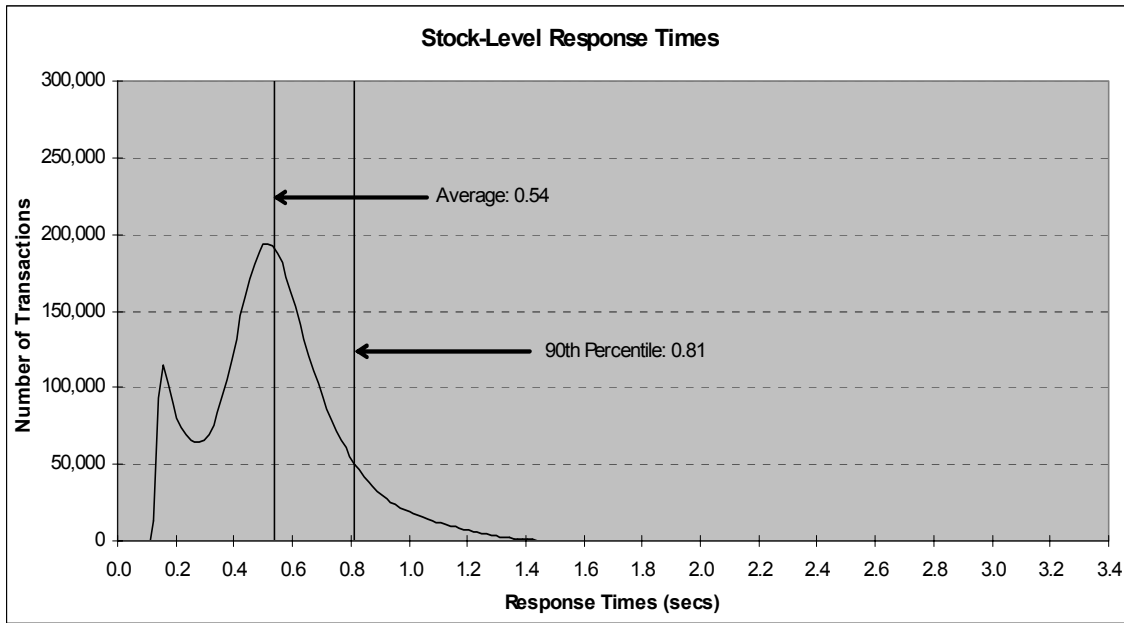


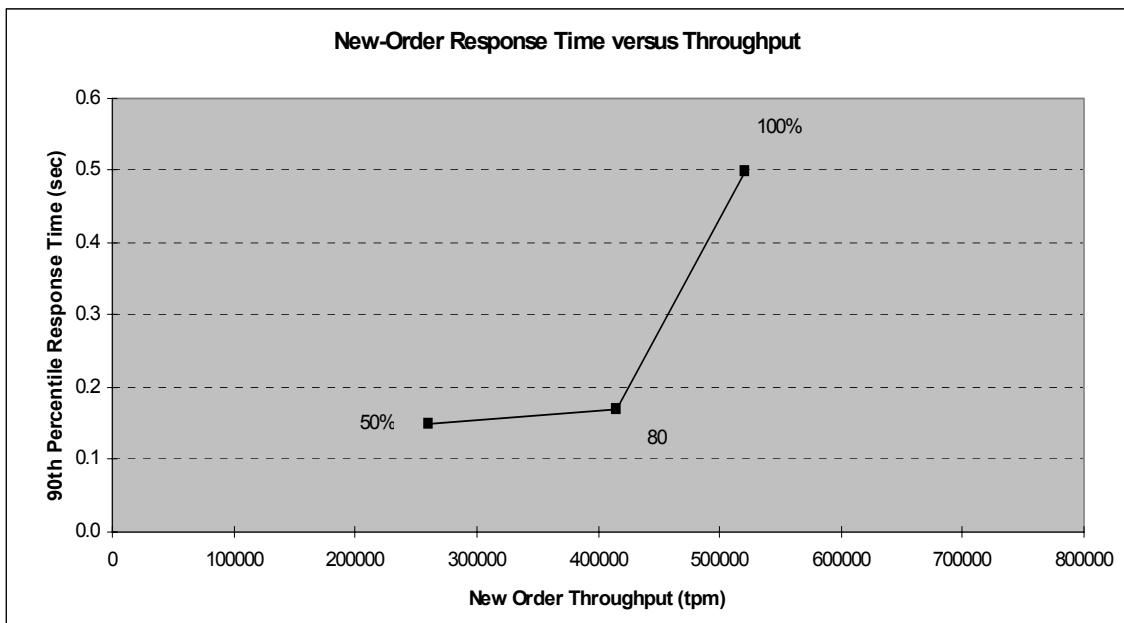
Figure 5.5: Stock Level Response Time Distribution



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)

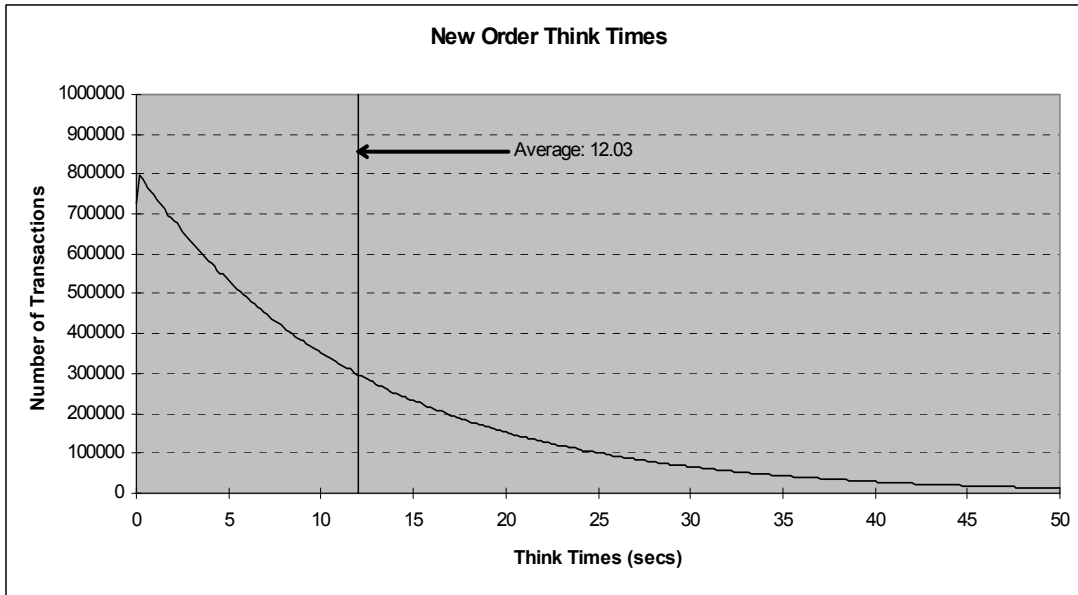
Figure 5.6: New Order Response Time versus Throughput



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)

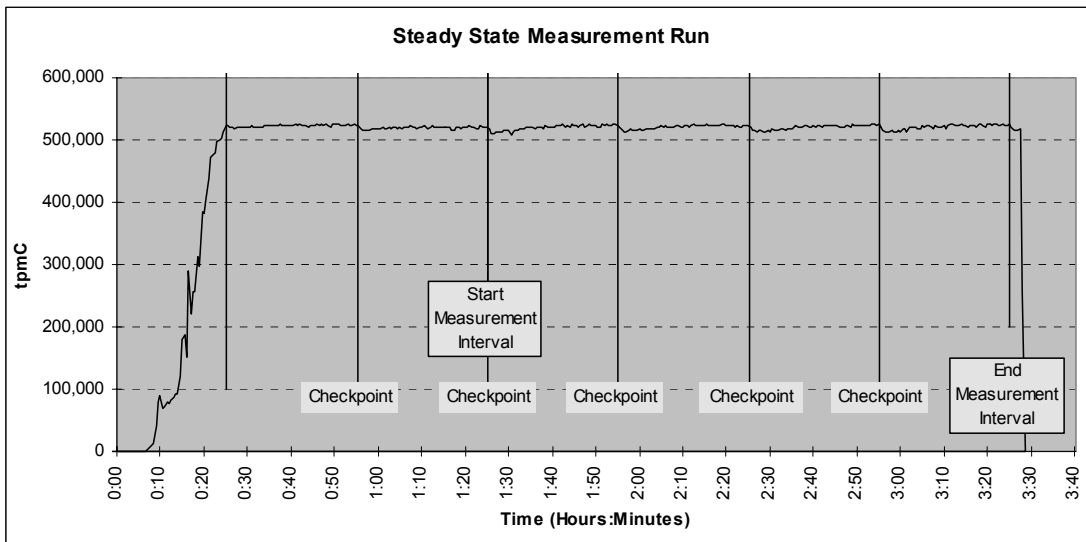
Figure 5.7: New Order Think Time Distribution



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 database server using Microsoft SQL Server ODBC, collects the response, and returns the result to the requestor.

Microsoft SQL Server 2005 Enterprise Edition 64-bit Service Pack 2 was configured to utilize "software NUMA", a feature that allows network connections to be affined to specific groups of CPUs. SQL Server was configured with 4 soft-NUMA nodes with 8 CPUs each. A utility doing continuous checkpoints of 1790 seconds (29 minutes, 50 seconds) was started on one of the clients after steady state was reached with a connection port that connected to the 1st Numa Node.

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

5.10. Measurement Interval Duration

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

The measurement interval was 120 minutes.

5.11. Regulation of Transaction Mix

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

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

5.12. Transaction Statistics

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

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

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

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

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

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

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

Table 5.4 shows this information.

Table 5.4: Transaction Statistics

Transaction Type	Statistic	Value
New Order	Rolled back transactions	1.00%
	Home warehouse	99.00%
	Remote warehouse	1.00%
	Average Items per Order	10.00
Payment	Home warehouse	85.00%
	Remote warehouse	15.00%
	Non-primary key access	60.00%
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	4.00%
	Stock-Level	4.02%

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 6 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 29.9 minutes.

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

Table 5.5: Checkpoint Start Time and Duration

Item	Start	End	Duration
Measurement Interval	1:25:07	3:25:07	7200
1st Checkpoint	0:55:13	1:25:04	1791
2nd Checkpoint	1:25:13	1:55:04	1791
3rd Checkpoint	1:55:13	2:25:04	1791
4rd Checkpoint	2:25:13	2:55:04	1791
5th Checkpoint	2:55:12	3:25:04	1792

Clause 6: SUT, Driver & Communications Definitions

6.1. Remote Terminal Emulator (RTE) Description

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

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

6.2. Loss of Terminal Connections

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

No terminal connections were lost.

6.3. Emulated Components

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

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

6.4. Functional Diagrams

A complete functional diagram of both benchmark and the configuration of the proposed (target) system must be disclosed. A detailed list of all hardware and software functionality being performed on the Driver System and its interface to the SUT must be disclosed (see Clause 6.6.3.6). (8.1.7.4)

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

6.5. Network Configuration

The network configuration of both the tested services and proposed (target) services which are being represented and a thorough explanation of exactly which parts of the proposed configuration are being replaced with the Driver System must be disclosed (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 three (3) dual-port VI 4 gigabit-per-second LAN adapters. Each port was directly connected to a VI adapter in one of six (6) clients. Each client also contains two (2) 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 the reported throughput.

Clause 7: Pricing

7.1. Pricing

*A detailed list of hardware and software used in the **Priced Configuration** must be reported. The listing for each separately **orderable** item must have vendor **part number**, description, and applicable release/revision level, price source, unit price, quantity, extended price, applicable discount price and 3-year maintenance price. 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 to a sufficient level of detail to meet the requirements of 7.4.1.1.*

*The total 3-year price of the entire **Priced Configuration** must be reported, including: hardware, software, and maintenance charges. The justification of any **discounts** applied must be disclosed in the price sheet. Sufficient detail of what items are being discounted and how much they are being discounted must be provided so that the **discount** amount used in the computation of the total system cost can be independently reproduced.*

*System pricing should include subtotals for the components used in the **Priced Configuration***

*Each **line item** in the pricing sheet must indicate the pricing source for that item.*

A detailed list of hardware and software components along with their part numbers and prices are given in the Executive Summary near the beginning of this document. Microsoft Windows Server 2003, Enterprise x64 Edition has been supplemented by Service Pack 1 and with knowledge base #KB/QFE 899008. SQL Server 2005 has been supplemented by Service Pack 2.

7.1.1. System Pricing

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

7.1.2. Maintenance Pricing

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

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

7.1.3. Discounts

Computer Resolutions, Inc. provides a standard large volume cash discount for the client, server and storage components of the priced configuration.

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

7.2. Availability

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

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

7.3. Measured tpmC, 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.

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

7.4. Country-Specific Pricing

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

None.

7.5. Usage Pricing

For any usage pricing, the sponsor must disclose:

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

The component pricing based on usage is shown below:

- o One (1) Microsoft Windows Server 2003, Enterprise x64 Edition license, 8 processor
- o One (1) Microsoft SQL Server 2005 Enterprise x64 Edition license, 8 processor
- o Six (6) Microsoft Windows 2003 Server licenses
- o One (1) Microsoft Visual C++ Standard license

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. The report must be made available when results are made public. In order to use the phrase “TPC Benchmark™ C”, the Full Disclosure Report must have been submitted to the TPC Administrator as well as written permission obtained to distribute same. (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
Product Development and Technology Performance Group
Unisys Corporation, M/S H Suite
25725 Jeronimo Road
Mission Viejo, CA 92691
USA

Clause 9: Audit

9.1. Auditor's Report

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

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

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

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

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

The attestation letter is shown on the next page/s.



PERFORMANCE METRICS INC.
TPC Certified Auditors

March 15, 2007

Jerrold Buggert
Director of Product Development & Technology Performance Group
Unisys Corporation
25725 Jeronimo Road
Mission Viejo, CA 92691

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

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

Server: Unisys ES7000/one Enterprise Server (8s)				
CPU's	Memory	Disks	90% Response	TpmC
8 Intel® Dual-Core Xeon® Processor @ 3.4 GHz	Main: 256 GB	1080 @ 73GB 26 @ 146GB 2 @ 36GB (OS)	0.50 sec	520,467
6 Clients: Unisys ES3220L Server				
2 Intel® Xeon® @ 2.33 GHz	Main: 2 GB	1 @ 73GB	Na	Na

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

- The transactions were correctly implemented.
- The database was properly scaled and populated with 42,500 warehouses, of which 41,600 were active during the Measured Interval. I verified that the unused warehouses had their respective warehouse rows deleted.

PERFORMANCE METRICS INC.
TPC Certified Auditors

- The ACID properties were successfully demonstrated.
- The durability data loss and log loss tests were demonstrated on a subset of the SUT with 5,262 active warehouses, running over 10% load.
- Input data was generated according to the specified percentages.
- Eight hours of mirrored log space was configured on the measured system.
- Eight hours of dynamic table growth space was configured on the measured system.
- The 60-day space calculation was verified.
- Measurement cycle times included a 0.1 second menu and a 0.1 second response time delays for emulated Web browsers.
- There were 416,000 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).
- At least one checkpoint was taken before the measured interval and after steady state was reached.
- Four checkpoints were taken during the measured interval.
- The system pricing was checked for major components and maintenance – see Auditor’s Notes.

Auditor Notes:

The tested system had 600 disks @ 73GB attached to 10 RTS 4200 RAID Storage controllers and 448 disks @ 18GB attached to 8 Unisys Storage Sentinel (USS) RAID controllers. The 18GB drives and USS RAID controllers were replaced by 8 RTS 4200 RAID Storage controllers and 480 disks @73GB in the priced configuration. The substitution met the requirements of TAB ID 413.

The tested system had four ES3220L clients with single dual-core 2.33GHz processor with 4MB cache, 1330MHz FSB and two with dual 3.4GHz processors with 2MB cache, 800MHz FSB. The pricing uses six ES3220L clients, each with single dual-core 2.33GHz processor with 4MB cache, 1330MHz FSB because ES3120L clients are no longer orderable. This substitution is compliant with current substitution rules - TAB ID 401.

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 TPCSEND 1
#define TPCSENDEND 2
#define TPCSENDNOW 3

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

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

// pTPCC->iStatusId codes
#define INVALID_IID 1
#define STATUS_OK 0
#define ERR_CMD_UNKNOWN -10
#define ERRTEXT_CMD_UNKNOWN "Unrecognized Command"
#define ERR_ALREADY_LOGGEDIN -11
#define ERRTEXT_ALREADY_LOGGEDIN "Already Logged In"
#define ERR_TERMID -12
#define ERRTEXT_TERMID "TermId or SyncId in Error"
#define ERR_FORM_UNKNOWN -13
#define ERRTEXT_FORM_UNKNOWN "Unrecognized FormId"
```

```
#define ERR_WID_INVALID -14
#define ERR_DID_INVALID -15
#define ERR_MISSING_KEY -16
#define ERR_NOT_NUMERIC -17
#define ERR_THRESHOLD_RANGE -18
#define ERR_EMBEDDED_EMPTY_OL -19
#define ERR_QUANTITY_INVALID -20
#define ERR_OL_INVALID -21
#define ERR_OL_COUNT -22
#define ERR_TM_INTERFACE -23
#define ERR_SERVICE_RSLT -24
#define ERR_INPUT_TOOLONG -25
#define ERR_IDANDNAME_EMPTY -26
#define ERR_IDANDNAME_ENTERED -27
#define ERR_AMOUNT_BADFORM -28
#define ERR_AMOUNT_INVALID -29
#define ERR_CARRIER_INVALID -30
#define ERR_TERM_ALLOC -31

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

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

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

typedef struct
{
#ifdef LONG_WID
    long ol_supply_w_id;
#else
    short ol_supply_w_id;
#endif
    long ol_i_id;
    char ol_i_name[25];
    short ol_quantity;
    char ol_brand_generic[2];
    double ol_i_price;
    double ol_amount;
    short ol_stock;
} OL_NEW_ORDER_DATA;

typedef struct
{
    bool bTPRslt;
    short iTPRslt;
#ifdef LONG_WID
    long w_id;
#else
    short w_id;
#endif
    short d_id;
    long c_id;
    short o_ol_cnt;
```

```

char c_last[NAME_LEN + 1];
char c_credit[3];
double c_discount;
double w_tax;
double d_tax;
long o_id;
short o_all_local;
short o_commit_flag;
DATEDETAILS o_entry_d;
double total_amount;
char execution_status[STATUS_LEN];
OL_NEW_ORDER_DATA Ol[MAX_OL];
} NEW_ORDER_DATA;

typedef struct
{
    bool bTPRslt;
    short iTPRslt;
#ifdef LONG_WID
    long w_id;
#else
    short w_id;
#endif
    short d_id;
    long c_id;
    short c_d_id;
#ifdef LONG_WID
    long c_w_id;
#else
    short c_w_id;
#endif
    double h_amount;
    DATEDETAILS h_date;
    char w_street_1[ADDR_LEN + 1];
    char w_street_2[ADDR_LEN + 1];
    char w_city[ADDR_LEN + 1];
    char w_state[STATE_LEN + 1];
    char w_zip[ZIP_LEN + 1];
    char d_street_1[ADDR_LEN + 1];
    char d_street_2[ADDR_LEN + 1];
    char d_city[ADDR_LEN + 1];
    char d_state[STATE_LEN + 1];
    char d_zip[ZIP_LEN + 1];
    char c_first[NAME_LEN + 1];
    char c_middle[3];
    char c_last[NAME_LEN + 1];
    char c_street_1[ADDR_LEN + 1];
    char c_street_2[ADDR_LEN + 1];
    char c_city[ADDR_LEN + 1];
    char c_state[STATE_LEN + 1];
    char c_zip[ZIP_LEN + 1];
    char c_phone[17];
    DATEDETAILS c_since;
    char c_credit[3];
    double c_credit_lim;
    double c_discount;
    double c_balance;
    char c_data[200+1];
    char execution_status[STATUS_LEN];
} PAYMENT_DATA;

typedef struct
{
    long ol_i_id;
#ifdef LONG_WID
    long ol_supply_w_id;

```

```

#else
    short ol_supply_w_id;
#endif
    short ol_quantity;
    double ol_amount;
    DATEDETAILS ol_delivery_d;
} OL_ORDER_STATUS_DATA;

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

typedef struct
{
    bool bTPRslt;
    short iTPRslt;
#ifdef LONG_WID
    long w_id;
#else
    short w_id;
#endif
    short o_carrier_id;
    long o_id[10];
    SYSTEMTIME QTime; // time delivery was queued
    SYSTEMTIME EndTime; // time delivery completed
} DELIVERY_DATA;

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

tpcc.cpp

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

```

```

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

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

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

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

// TMon Interface Settings
INT iTMMaxMsg = 0;

// Term Interface Settings
INT iMaxTerms = 3000;

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

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

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

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

//=====
//
// Function name: DllMain
//
//=====
BOOL APIENTRY DllMain(HANDLE hInst, ULONG ul_reason_for_call,
LPVOID lpReserved)

```

```

{
    TPCC_STATE * pTPCC = NULL;
    CHAR _szDiag[MAX_DIAG_SZ];
    UINT iTMMaxSz = 0;
    switch(ul_reason_for_call)
    {
        case DLL_PROCESS_ATTACH:
            // Process initialization

            InitializeCriticalSection(&csDllMain);
            ReadRegistry();
            DiagIoInit(pTitle,bSetConsole,bSetEventLog,uSetDiagLevel);
            wsprintf(szDiag,
                "(%s) EventLog = %d, Console = %d, DiagLevel = %d\n"
                "MaxTerms = %d\n",
                VERSIONINFO,bSetEventLog,bSetConsole,uSetDiagLevel,iMaxTerms);
            DiagIoWrite(szDiag,DIAG_FORCE);
#ifdef LONG WID
            DiagIoWrite("tpccdll - long w_id", DIAG_FORCE);
#endif
            dwTlsInx = TlsAlloc();
            if (dwTlsInx == TLS_NULL)
            {
                wsprintf(szDiag,"PAttach(%ld): Tls Alloc Failed (%ld)\n",
                    GetCurrentThreadId(),GetLastError());
                DiagIoWrite(szDiag,DIAG_ERROR);
                return(FALSE);
            };
            if (TermInit(iMaxTerms))
                return(FALSE);
            iTMMaxSz = max(iTMMaxSz,sizeof(NEW_ORDER_DATA));
            iTMMaxSz = max(iTMMaxSz,sizeof(PAYMENT_DATA));
            iTMMaxSz = max(iTMMaxSz,sizeof(ORDER_STATUS_DATA));
            iTMMaxSz = max(iTMMaxSz,sizeof(DELIVERY_DATA));
            iTMMaxSz = max(iTMMaxSz,sizeof(STOCK_LEVEL_DATA));
            iTMMaxSz += 10;
            TMonInit(iTMMaxSz);
            if (DeliveryInit(lSetDThreads,lSetDQSize,szSetPath))
            {
                DeliveryTerm();
                return(FALSE);
            };
            iHHdrLen = strlen(HTTPHdr);
            iCTextLen = strlen(CTEXT);

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

```

```

}; // DllMain

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

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

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

//=====
// Function name: ThreadDetach
//=====
VOID ThreadDetach(TPCC_STATE * pTPCC)
{
    EnterCriticalSection(&csDllMain);
    try
    {
        pTPCC = (TPCC_STATE *) TlsGetValue(dwTlsInx);
        if (pTPCC != NULL)

```

```

    {
        TMDone(&pTPCC->tsTMon);
        fclose(pTPCC->fp);
        free(pTPCC);
        pTPCC = NULL;
        TlsSetValue(dwTlsInx, pTPCC);
    };
}
finally
{
    LeaveCriticalSection(&csDllMain);
}; // ThreadDetach

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

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

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

```

```

        break;
    case TPCCSENDEND:
        SendResponse(pECB, pTPCC->SendMsg, pTPCC->szHeader);
        break;
    case TPCCENDNOW:
    default:
        break;
}; // switch (TPCCHandler result)

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

    return(dwRslt);
}; // HttpExtensionProc

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

//=====
// Function name: ReadRegistry
//
// Sets global operational parameters from registry if they exist.
// Otherwise, compiled in defaults apply.
//
// Result:
// FALSE Registry entry found
// TRUE Registry entry does not exist
//=====

```

```

BOOL ReadRegistry(VOID)
{
    HKEY hkTPCC;
    DWORD dwMax;
    DWORD dwRT;
    INT i;
    CHAR szValue[100];
    if (RegOpenKeyEx(HKEY_LOCAL_MACHINE, "SOFTWARE\\Unisys\\TPCC", 0,
KEY_READ, &hkTPCC) != ERROR_SUCCESS )
        return(TRUE);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "EVENTLOG", 0, &dwRT, (BYTE *)
&szValue, &dwMax)
    == ERROR_SUCCESS)
    {
        if (abs(atoi(szValue) == 0))
            bSetEventLog = FALSE;
        else
            bSetEventLog = TRUE;
    };
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "CONSOLE", 0, &dwRT, (BYTE *) &szValue, &dwMax)
    == ERROR_SUCCESS )
    {
        if (abs(atoi(szValue) == 0))
            bSetConsole = FALSE;
        else
            bSetConsole = TRUE;
    };
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "DIAGLEVEL", 0, &dwRT, (BYTE *)
&szValue, &dwMax)
    == ERROR_SUCCESS )
    {
        i = atoi(szValue);
        if (i < DIAG_FORCE)
            i = DIAG_FORCE;
        else
            if (i > DIAG_INFO)
                i = DIAG_INFO;
        uSetDiagLevel = i;
    };
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "MAXTERMS", 0, &dwRT, (BYTE *)
&szValue, &dwMax)
    == ERROR_SUCCESS )
    {
        iMaxTerms = abs(atoi(szValue));
    };
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "DELIVERYTHREADS", 0, &dwRT, (BYTE *)
&szValue, &dwMax)
    == ERROR_SUCCESS )
    {
        lSetDThreads = abs(atoi(szValue));
    };
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "DQSIZE", 0, &dwRT, (BYTE *) &szValue, &dwMax)
    == ERROR_SUCCESS )
    {
        lSetDQSize = abs(atoi(szValue));
    };
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "DQPATH", 0, &dwRT, (BYTE *) &szValue, &dwMax)
    == ERROR_SUCCESS )
    {

```

```

    strcpy(szSetPath,szValue);
};
RegCloseKey(hkTPCC);
return(FALSE);
}; // ReadRegistry

```

tpcchandler.h

```

// tpcchandler.h
//
// Copyright Unisys, 1999
#define MAX_MSG_SZ 5000

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

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

```

tpcchandler.cpp

```

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

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

#define INIT_RETRY 0

// pTPCC->iFormId - TPCC forms enumeration.
#define FORM_NULL 0
#define FORM_LOGON 1
#define FORM_MENU 2
#define FORM_NEWORDER 3
#define FORM_PAYMENT 4

```

```

#define FORM_DELIVERY 5
#define FORM_ORDERSTATUS 6
#define FORM_STOCKLEVEL 7
#define FORM_EXIT 8
#define FORM_MAX 9

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

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

static CHAR * szFormLogin =
    HTTPHdr "<HTML>"
    "<HEAD><TITLE>Welcome To TPC-C</TITLE></HEAD><BODY>"
    "Please Identify your Warehouse and District for this session.<BR>"
    "<FORM ACTION=\"tpcc.dll\" METHOD=\"GET\">"
    "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"0\">"
    "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"1\">"
    "<INPUT TYPE=\"hidden\" NAME=\"TERMIN\" 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 * TERMITOKEN = "TERMIN=";
static CHAR * SYNCIDTOKEN = "SYNCID=";
static CHAR * FORMIDTOKEN = "FORMID=";

```

```

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

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

//=====
// Function name: TPCCclear
//=====
BOOL TPCCclear(TPCC_STATE * pTPCC)
{
    pTPCC->ConnID = 0;
    pTPCC->SWid = 0;
    pTPCC->SDid = 0;
    pTPCC->iSyncId = 0;
    pTPCC->iTermId = -2;
    pTPCC->uFormId = FORM_NULL;
    pTPCC->iStatusId = 0;
    strcpy(pTPCC->ErrTxt, "");
    return (FALSE);
}; // TPCCclear

//=====
// Function name: TPCCHandler
//=====
UINT TPCCHandler(TPCC_STATE * pTPCC)

```

```

{
    INT iSyncId;
    INT iTermId;
    UINT uCmdId;
    UINT uRslt = TPCCSENDEND; // default error handling
    TERM_STATE * pTerm;

    pTPCC->iStatusId = STATUS_OK;
    if (GetHidden(pTPCC->RecvMsg, &pTPCC->uFormId, &iSyncId, &iTermId))
    {
        uRslt = TPCCSEND;
        FormatLogin(pTPCC->SendMsg, pTPCC->ErrTxt);
        goto HdlrXit;
    };
    if (iTermId > 0)
    {
        pTerm = TermGet(iTermId);
        if (pTerm == NULL)
        {
            uRslt = TPCCSEND;
            strcpy(pTPCC->ErrTxt, "Invalid Term Id");
            FormatLogin(pTPCC->SendMsg, pTPCC->ErrTxt);
            goto HdlrXit;
        };
        pTPCC->SWid = pTerm->SWid;
        pTPCC->SDid = pTerm->SDid;
        pTPCC->iSyncId = pTerm->iSyncId;
        pTPCC->iTermId = pTerm->iTermId;
    };
    uCmdId = GetCmd(pTPCC->RecvMsg, pTPCC->szWork, sizeof(pTPCC->szWork));
    // Except for Submit(log in), SWid must already be set
    if (pTPCC->SWid == 0 && uCmdId != CMD_SUBMIT)
    {
        strcpy(pTPCC->ErrTxt, "Must log in first!");
        FormatLogin(pTPCC->SendMsg, pTPCC->ErrTxt);
        uRslt = TPCCSEND;
        goto HdlrXit;
    };
    // Check for multiple log in attempts
    if (pTPCC->SWid != 0 && uCmdId == CMD_SUBMIT)
    {
        strcpy(pTPCC->ErrTxt, ERRTXT_ALREADY_LOGGEDIN);
        pTPCC->iStatusId = ERR_ALREADY_LOGGEDIN;
        FormatMenu(pTPCC->SendMsg, pTPCC);
        uRslt = TPCCSEND;
        goto HdlrXit;
    };
    // If not logging in, validate hidden fields
    if (uCmdId != CMD_SUBMIT)
    {
        if (iTermId != pTPCC->iTermId || iTermId != iSyncId)
        {
            wsprintf(pTPCC->ErrTxt, "%s: Received %ld, %ld (%ld)",
                ERRTXT_TERMID, iTermId, iSyncId, pTPCC->iTermId);
            pTPCC->iStatusId = ERR_TERMID;
            FormatMenu(pTPCC->SendMsg, pTPCC);
            goto HdlrXit;
        };
    };
    // Process the command
    switch (uCmdId)
    {
        case CMD_SUBMIT:
            ProcessLogin(pTPCC->RecvMsg, pTPCC->SendMsg, pTPCC);
            break;
        case CMD_MENU_FORM:

```

```

        FormatMenu(pTPCC->SendMsg,pTPCC);
        break;
    case CMD_PROCESS:
        ProcessForm(pTPCC->RecvMsg,pTPCC->SendMsg,pTPCC);
        break;
    case CMD_NEWORDER_FORM:
        FormatNewOrder(pTPCC->SendMsg,pTPCC);
        break;
    case CMD_PAYMENT_FORM:
        FormatPayment(pTPCC->SendMsg,pTPCC);
        break;
    case CMD_DELIVERY_FORM:
        FormatDelivery(pTPCC->SendMsg,pTPCC);
        break;
    case CMD_ORDERSTATUS_FORM:
        FormatOrderStatus(pTPCC->SendMsg,pTPCC);
        break;
    case CMD_STOCKLEVEL_FORM:
        FormatStockLevel(pTPCC->SendMsg,pTPCC);
        break;
    case CMD_EXIT:
        TermFree(pTPCC->iTermId);
        strcpy(pTPCC->ErrTxt,"Logged Off");
        FormatLogin(pTPCC->SendMsg,pTPCC->ErrTxt);
        goto HdlrXit;
    default:
        strcpy(pTPCC->ErrTxt,ERRTXT_CMD_UNKNOWN);
        pTPCC->iStatusId = ERR_CMD_UNKNOWN;
        if (pTPCC->sWid == 0)
            FormatLogin(pTPCC->SendMsg,pTPCC->ErrTxt);
        else
            FormatMenu(pTPCC->SendMsg,pTPCC);
        break;
}; // switch (uCmdId)

uRslt = TPCCSEND;

HdlrXit:
    return(uRslt);
}; // TPCCHandler

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

```

```

#ifdef LONG_WID
    if (GetLongKey(&sWid,pIn,"w_id",pTPCC))
#else
    if (GetShortKey(&sWid,pIn,"w_id",pTPCC))
#endif
    {
        FormatLogin(pOut,pTPCC->ErrTxt);
        return(TRUE);
    }
    if (sWid < 1)
    {
        wsprintf(pTPCC->ErrTxt,"Warehouse Id (%d) Invalid",sWid);
        pTPCC->iStatusId = ERR_WID_INVALID;
        FormatLogin(pOut,pTPCC->ErrTxt);
        return(TRUE);
    }
    if (GetShortKey(&sDId,pIn,"d_id",pTPCC))
    {
        FormatLogin(pOut,pTPCC->ErrTxt);
        return(TRUE);
    }
    if (sDId < MIN_DID || sDId > MAX_DID)
    {
        wsprintf(pTPCC->ErrTxt,"DID Out of Range(%ld,%ld) - %ld",
            MIN_DID,MAX_DID,sDId);
        pTPCC->iStatusId = ERR_DID_INVALID;
        FormatLogin(pOut,pTPCC->ErrTxt);
        return(TRUE);
    }
    pTerm = TermAlloc();
    if (pTerm == NULL)
    {
        wsprintf(pTPCC->ErrTxt,"Unable to Allocate Terminal Entry");
        pTPCC->iStatusId = ERR_TERM_ALLOC;
        FormatLogin(pOut,pTPCC->ErrTxt);
        return(TRUE);
    }
    pTerm->ConnID = pTPCC->ConnID;
    pTerm->iSyncId = pTerm->iTermId;
    pTerm->sWid = abs(sWid);
    pTerm->sDId = abs(sDId);
    pTPCC->iTermId = pTerm->iTermId;
    pTPCC->iSyncId = pTerm->iSyncId;
    pTPCC->sWid = pTerm->sWid;
    pTPCC->sDId = pTerm->sDId;
    FormatMenu(pOut,pTPCC);
    return(FALSE);
}; // ProcessLogin

//=====
// Function name: ProcessForm
//
// ProcessForm uses pTPCC->uFormId to determine which form input is
// present and ready for processing. Actual processing is done by
// the form specific routine.
//
// Result:
// FALSE - form processed, pOut contains response.
// TRUE - error processing form input, pOut contains reason.
//=====
BOOL ProcessForm(CHAR * pIn,CHAR * pOut,TPCC_STATE * pTPCC)
{
    switch (pTPCC->uFormId )

```



```

{
case FORM_NEWORDER:
    Return(ProcessNewOrder (pIn, pOut, pTPCC));
case FORM_PAYMENT:
    Return(ProcessPayment (pIn, pOut, pTPCC));
case FORM_DELIVERY:
    Return(ProcessDelivery (pIn, pOut, pTPCC));
case FORM_ORDERSTATUS:
    Return(ProcessOrderStatus (pIn, pOut, pTPCC));
case FORM_STOCKLEVEL:
    Return(ProcessStockLevel (pIn, pOut, pTPCC));
default:
    wsprintf (pTPCC->ErrTxt, "%s (%ld)",
        ERRTXT_FORM_UNKNOWN, pTPCC->uFormId);
    pTPCC->iStatusId = ERR_FORM_UNKNOWN;
    FormatMenu (pOut, pTPCC);
    break;
}
return (TRUE);
}; // ProcessForm
//=====
// Function name: ProcessNewOrder
//
// ProcessNewOrder extracts the input data fields from pIn, processes
// the data, and returns a response in pOut.
//
// Result:
// FALSE - NewOrder processed successfully.
// TRUE - NewOrder processing failed.
//=====
BOOL ProcessNewOrder (CHAR * pIn, CHAR * pOut, TPCC_STATE * pTPCC)
{
    NEW_ORDER_DATA * pnod;
    TMON_STATE * pTMon;
    CHAR szKey[20];
    CHAR * ptr;
    INT iInx;
    UINT u;
    UINT uLine;
    HRESULT hr;
    int iSize;
    int retCnt = 0;

    pTMon = &pTPCC->tsTMon;
    pnod = (NEW_ORDER_DATA *) pTMon->pTxnData;
    ZeroMemory (pnod, sizeof (NEW_ORDER_DATA));
    pnod->w_id = pTPCC->sWid;
    if (GetShortKey (&pnod->d_id, pIn, "DID*", pTPCC))
    {
        FormatMenu (pOut, pTPCC);
        return (TRUE);
    };
    if (pnod->d_id < MIN_DID || pnod->d_id > MAX_DID)
    {
        wsprintf (pTPCC->ErrTxt, "DID Out of Range(%ld,%ld) - %ld",
            MIN_DID, MAX_DID, pnod->d_id);
        pTPCC->iStatusId = ERR_DID_INVALID;
        FormatMenu (pOut, pTPCC);
        return (TRUE);
    };
    if (GetLongKey (&pnod->c_id, pIn, "CID*", pTPCC))
    {
        FormatMenu (pOut, pTPCC);

```

```

        return (TRUE);
    };
    pnod->o_ol_cnt = 0;
    ptr = pIn;
    for (u=0, uLine=0; u < MAX_OL; u++)
    {
        wsprintf (szKey, "SP%2.2d*", u);
        ptr = strstr (ptr, szKey);
#ifdef LONG_WID
        if (GetLongKey (&pnod->Ol [uLine].ol_supply_w_id, ptr, szKey, pTPCC))
#else
        if (GetShortKey (&pnod->Ol [uLine].ol_supply_w_id, ptr, szKey, pTPCC))
#endif
        {
            FormatMenu (pOut, pTPCC);
            return (TRUE);
        };
        wsprintf (szKey, "IID%2.2d*", u);
        if (GetLongKey (&pnod->Ol [uLine].ol_i_id, ptr, szKey, pTPCC))
        {
            FormatMenu (pOut, pTPCC);
            return (TRUE);
        };
        wsprintf (szKey, "Qty%2.2d*", u);
        if (GetShortKey (&pnod->Ol [uLine].ol_quantity, ptr, szKey, pTPCC))
        {
            FormatMenu (pOut, pTPCC);
            return (TRUE);
        };
        if (pnod->Ol [uLine].ol_i_id != 0)
        {
            if (pnod->Ol [uLine].ol_supply_w_id < 1)
            {
                wsprintf (pTPCC->ErrTxt,
                    "Order Line %ld Contains Invalid Wid %ld",
                    u + 1, pnod->Ol [uLine].ol_supply_w_id);
                pTPCC->iStatusId = ERR_WID_INVALID;
                FormatMenu (pOut, pTPCC);
                return (TRUE);
            };
            if (pnod->Ol [uLine].ol_quantity < MIN_QUANTITY ||
                pnod->Ol [uLine].ol_quantity > MAX_QUANTITY)
            {
                wsprintf (pTPCC->ErrTxt,
                    "Order Line %ld Contains Invalid Qty %d",
                    u + 1, pnod->Ol [uLine].ol_quantity);
                pTPCC->iStatusId = ERR_QUANTITY_INVALID;
                FormatMenu (pOut, pTPCC);
                return (TRUE);
            };
            uLine++;
        } // if (ol_i_id !=0)
    } else
    {
        if (pnod->Ol [uLine].ol_supply_w_id != 0)
        {
            wsprintf (pTPCC->ErrTxt,
                "Order Line %ld WID Supplied with No Item", u + 1);
            pTPCC->iStatusId = ERR_OL_INVALID;
            FormatMenu (pOut, pTPCC);
            return (TRUE);
        };
        if (pnod->Ol [uLine].ol_quantity != 0)
        {
            wsprintf (pTPCC->ErrTxt,
                "Order Line %ld Qty Supplied with No Item", u + 1);

```

```

        pTPCC->iStatusId = ERR_OL_INVALID;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
}; // empty order line
}; // for (u < MAX_OL)
pnod->o_ol_cnt = uLine;
if (pnod->o_ol_cnt < MIN_OL)
{
    wsprintf(pTPCC->ErrTxt, "Too Few Order Lines %d", pnod->o_ol_cnt);
    pTPCC->iStatusId = ERR_OL_COUNT;
    FormatMenu(pOut,pTPCC);
    return(TRUE);
};
iSize = pTMon->iSize;
do
{
    hr = pTMon->pIAAllTxn->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 %5.2f
            <BR>",
#else
            "%4.4d %6.6d %-24s %2.2d %3.3d %1.1s %5.2f
            <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->c_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->bTPRsIt)
{
    wsprintf(pTPCC->ErrTxt,
        "Payment Service Returned Error(%ld): %s",
        ppd->iTPRsIt, 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->bTPRsIt)
    {
        wsprintf(pTPCC->ErrTxt,
            "Delivery Post Returned Error(%ld): Queue Request Failed",
            pdd->iTPRsIt);
        pTPCC->iStatusId = ERR_SERVICE_RSLT;
        FormatMenu(pOut, pTPCC);
        return(TRUE);
    };
    iInx = FormatRespHdr(pOut, "TPC-C Delivery", pTPCC);
    iInx += wsprintf(pOut + iInx,
        "<PRE>
        Warehouse: %6.6d<BR><BR>"
#ifdef LONG WID
        "Warehouse: %6.6d<BR><BR>"
#else
        "Warehouse: %4.4d<BR><BR>"
#endif
    );
}

```

```

    "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,HTMLTailer);

    return (FALSE);
}; // ProcessDelivery

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

    pTMon = &pTPCC->tsTMon;
    posd = (ORDER_STATUS_DATA *) pTMon->pTxnData;
    ZeroMemory(posd,sizeof(ORDER_STATUS_DATA));
    posd->w_id = pTPCC->swid;
    if (GetShortKey(&posd->d_id,pIn,"DID*",pTPCC))
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (posd->d_id < MIN_DID || posd->d_id > MAX_DID)
    {
        sprintf(pTPCC->ErrTxt,"DID Out of Range(%ld,%ld) - %ld",
            MIN_DID,MAX_DID,posd->d_id);
        pTPCC->iStatusId = ERR_DID_INVALID;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (GetLongKey(&posd->c_id,pIn,"CID*",pTPCC))
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (GetStringKey(posd->c_last,pIn,"CLT*",pTPCC,NAME_LEN))
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (posd->c_id == 0 && posd->c_last[0] == 0)
    {
        strcpy(pTPCC->ErrTxt,"Error - Customer Id and Name Empty");
        pTPCC->iStatusId = ERR_IDANDNAME_EMPTY;
        FormatMenu(pOut,pTPCC);
    }
}

```

```

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

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

        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>
        Warehouse: %6.6d District: %2.2d<BR>"
#ifdef LONG_WID
        Warehouse: %6.6d District: %2.2d<BR>"
#else
        Warehouse: %4.4d District: %2.2d<BR>"
#endif
        "Customer: %4.4d Name: %-16s %-2s %-16s<BR>",
        posd->w_id,posd->d_id,
        posd->c_id,posd->c_first,posd->c_middle,posd->c_last);
    iInx += sprintf(pOut + iInx,"Cust-Balance: $%9.2f<BR><BR>",posd-
    >c_balance);
    iInx += wsprintf(pOut + iInx,
        "Order-Number: %8.8d Entry-Date: %2.2d-%2.2d-%4.4d
        %2.2d:%2.2d:%2.2d Carrier-Number: %2.2d<BR>"
        "Supply-W Item-Id Qty Amount Delivery-Date<BR>",
        posd->o_id,posd->o_entry_d.day,posd->o_entry_d.month,
        posd->o_entry_d.year,posd->o_entry_d.hour,
        posd->o_entry_d.minute,posd->o_entry_d.second,
        posd->o_carrier_id);
    for(i = 0; i < posd->o_ol_cnt; i++)
    {
        iInx += sprintf(pOut + iInx,
#ifdef LONG_WID
            "%6.6d %6.6d %2.2d $%8.2f %2.2d-%2.2d-
            %4.4d<BR>",

```

```

#else
    " %4.4d      %6.6d      %2.2d      $%8.2f      %2.2d-%2.2d-
%4.4d<BR>",
#endif
    posd->OlOrderStatusData[i].ol_supply_w_id,
    posd->OlOrderStatusData[i].ol_i_id,
    posd->OlOrderStatusData[i].ol_quantity,
    posd->OlOrderStatusData[i].ol_amount,
    posd->OlOrderStatusData[i].ol_delivery_d.day,
    posd->OlOrderStatusData[i].ol_delivery_d.month,
    posd->OlOrderStatusData[i].ol_delivery_d.year);
};
wsprintf(pOut + iInx,
    "<BR></PRE><HR><BR>%s</FORM>%s", szMenuList, HTMLTrailer);

return (FALSE);
}; // ProcessOrderStatus

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

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

```

```

        if (retCnt > 0) Sleep (1000);
    } while ((FAILED (hr)) && (retCnt++ < INIT_RETRY));

    if (FAILED (hr))
    {
        pTPCC->iStatusId = ERR_TM_INTERFACE;
        wsprintf (pTPCC->ErrTxt,
            "COM Interface to StockLevel Call Failed, HRESULT %x",
            hr);
        FormatMenu (pOut, pTPCC);
        return (TRUE);
    };
    psld = (STOCK_LEVEL_DATA *) pTMon->pTxnData;
    if (psld->bTPPrslt)
    {
        wsprintf (pTPCC->ErrTxt,
            "Stock Level Service Returned Error(%ld): %s",
            psld->iTPPrslt, 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>
Warehouse: %6.6d      District: %2.2d<BR><BR>"
#ifdef LONG_WID
        "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);
    };
};
*iRslt = 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))
    {
        sprintf(pTPCC->ErrTxt,"Error - Missing %s Key",pKey);
        pTPCC->iStatusId = ERR_MISSING_KEY;
        return(TRUE);
    };
    uLen = strlen(pTPCC->szWork);
    if (uLen > uMax)
    {
        sprintf(pTPCC->ErrTxt,
            "Error - %s Key Input (%ld) Too Long (%ld)"
            ,pKey,uLen,uMax);
        pTPCC->iStatusId = ERR_INPUT_TOOLONG;
        return(TRUE);
    };
    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))
    {
        sprintf(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
    {
        sprintf(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)
{
    sprintf(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",
        HTTPHdr,pTPCC->iStatusId,pTPCC->iTermId,pTPCC->iSyncId,FORM_MENU,
        szMenuList,pTPCC->ErrTxt,HTMLTrailer);
}; // FormatMenu

//
// Function name: FormatNewOrder
//
//=====
VOID FormatNewOrder(CHAR * pOut,TPCC_STATE * pTPCC)
{
    INT iInx;
    pTPCC->uFormId = FORM_NEWORDER;
    iInx = FormatFormHdr(pOut,"TPC-C New Order",pTPCC);
    iInx += wsprintf(pOut + iInx,
        "<PRE>
        New Order<BR>"
        "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>"
    #endif
}

```

```

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

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

```

```

    "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)

```

```

    "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=\\\"SYNCID\\\" VALUE=\\\"%d\\\">",
HTTPhdr, pTitle, pTPCC->iStatusId, pTPCC->uFormId,
pTPCC->iTermId, pTPCC->iSyncId)
); // FormatRespHdr

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

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

//=====
// Function name: CheckNumeric
// Result
// FALSE - string is all numeric
// TRUE - sting contains non-numeric characters
//=====
BOOL CheckNumeric(CHAR * pNum)
{
if (*pNum == 0 )

```

```

return(TRUE);
while (*pNum && isdigit(*pNum))
pNum++;
return(*pNum);
}; // CheckNumeric

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

char *pProgId = "Testing";

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

```

delivery.h

```

// delivery.h
//
// Copyright Unisys, 1999
#define DEFAULTDQSIZE 2000

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

```

delivery.cpp

```

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

```

```

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

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

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

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

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

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

```

```

        lDeliveryThreads,lDQSize);
    DiagIoWrite(szDiag,DIAG_FORCE);
    return(FALSE);
}; // DeliveryInit

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

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

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

```

```

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

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

```

```

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

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

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

```

```

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

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

```

```

        pdd->o_id[0], pdd->o_id[1], pdd->o_id[2], pdd->o_id[3], pdd->o_id[4],
        pdd->o_id[5], pdd->o_id[6], pdd->o_id[7], pdd->o_id[8], pdd->o_id[9]
    );
    fwrite(szDiag, iInx, 1, fpLog);
    if (bDQReport)
    {
        wsprintf(szDiag, "DoDelivery(%ld): DQDepth
%ld\n", lMyId, lDQReport);
        DiagIoWrite(szDiag, DIAG_FORCE);
        bDQReport = FALSE;
    };
}; // while !bDQQuit

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

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

```

term.h

```

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

#include <sys\timeb.h>

#define TMILLI_TIMEOUT 3600000 // One hour

typedef struct
{
    BOOL bInUse; // In use flag
    INT iTermId; // TermId
    LPVOID ConnID; // Connection Id
    INT iSyncId; // Sync Id
#ifdef LONG_WID
    LONG sWID; // TPCC Warehouse Id
#else
    SHORT sWID;
#endif
#ifdef S_DIST
    SHORT sDID; // TPCC District Id

```

```

    struct timeb tbLastAccess;          // Last activity timestamp
} TERM_STATE;

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

```

term.cpp

```

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

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

VOID TermMaint(VOID);

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

```

```

}; // TermInit

//=====
// Function name: TermTerm
// Frees TArray and deletes csTerm critical section. Assumes access
// to function is single threaded and no other threads are actively
// accessing TArray entries (DLL_PROCESS_DETACH).
//=====
VOID TermTerm(VOID)
{
    DeleteCriticalSection(&csTerm);
    if (pTArray != NULL)
        free(pTArray);
    iNextTerm = 0;
    iMaxTerm = 0;
}; // TermTerm

//=====
// Function name: TermAlloc
// Allocates empty TArray. Uses iNextTerm to start search.
//
// Returns:
// > 0 TArray entry index (iTermId)
// < 0 Empty TArray entry not available
//=====
TERM_STATE * TermAlloc(VOID)
{
    INT iTermId = -1;
    if (pTArray == NULL)
    {
        CHAR szDiag[MAX_DIAG_SZ];
        wsprintf(szDiag, "TermAlloc(%ld): Term Array Not Allocated\n",
            GetCurrentThreadId());
        DiagIoWrite(szDiag, DIAG_ERROR);
        return(NULL);
    };
    EnterCriticalSection(&csTerm);
    try
    {
        while(iNextTerm <= iMaxTerm)
        {
            if (!pTArray[iNextTerm].bInUse)
            {
                pTArray[iNextTerm].bInUse = TRUE;
                _ftime(&pTArray[iNextTerm].tbLastAccess);
                iTermId = iNextTerm;
                iNextTerm++;
                break;
            };
            iNextTerm++;
        }; // while(iNextTerm <= iMaxTerm) (1st Try)
        if (iTermId <= 0)
        {
            // No entry found. Perform maint and try again
            TermMaint();
            iNextTerm = 1;
            while(iNextTerm <= iMaxTerm)
            {
                if (!pTArray[iNextTerm].bInUse)
                {
                    pTArray[iNextTerm].bInUse = TRUE;
                    _ftime(&pTArray[iNextTerm].tbLastAccess);

```

```

        iTermId = iNextTerm;
        iNextTerm++;
        break;
    };
    iNextTerm++;
}; // while (iNextTerm <= iMaxTerm) (2nd Try)
}; // if (iTermId <= 0)
if (iTermId <= 0)
    iNextTerm = 1;
}
finally
{
    LeaveCriticalSection(&csTerm);
};

if (iTermId > 0)
    return(&TArray[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 = &TArray[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(&TArray[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 = &TArray[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;
    IPCC * pIAllTxn;
    CHAR * pTxnData; // TM buffer area
} TMON_STATE;

VOID TMonInit(INT iSetMaxMsg);
VOID TMonTerm(VOID);
BOOL TMonInit(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: TMinInit
//
//      Result:
//      FALSE   Initialization completed successfully
//      TRUE    Initialization failed
//
//=====
BOOL TMinInit(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.c

```
// timesupp.c
//
// Copyright Unisys, 1997 1998 1999
//
#include <stdio.h>
#include "timesupp.h"
// These global variables are used for implementing hi resolution time
stamps
// based on the QueryPerformanceCounter() API.
// These variables should be initialized at startup by a single call to
// InitHiresTime().
struct timeb tbInitialTimeb;
LARGE_INTEGER liInitialTickCount;
LARGE_INTEGER liTickFreq;
DOUBLE dTickSecs; // period of ticks in seconds
DOUBLE dTickMillisecs; // period of ticks in milliseconds
BOOL bHRT = FALSE; // true => using HRT
//=====
// Function name: InitHiresTime
//
```

```

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

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

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

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

    // Establish initial time
    _ftime(&tbInitialTimeb);

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

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

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

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

//InitHiresTime

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

```

```

    p_tbDest->timezone = p_tbSource->timezone;
}; // TimebCopy

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

//=====
//
// Function name: TimebElaspsed
//
//=====
TMILLI TimebElasped(struct _timeb * p_tb1)
{
    struct _timeb tb2;
    TimebStamp(&tb2);

    return (TimebDiff(p_tb1,&tb2));
}; // TimebElasped

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

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

```

```

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

    ptm = &tmTime;
    uLen = strlen(psz);
    if (uLen < (TIMEB_STRING_SZ - 4)) // millis are optional
    {
        p_tb1->time = 0;
        p_tb1->millitm = 0;
        return (TRUE);
    };
    // Clear fields that won't be set
    ptm->tm_wday = 0;
    ptm->tm_yday = 0;
    ptm->tm_isdst = -1;
    // Set tm struct fields from string
    ptm->tm_year = (atoi(psz)) - 1900;
    psz += 5;
    ptm->tm_mon = (atoi(psz)) - 1;
    psz += 3;
    ptm->tm_mday = atoi(psz);
    psz += 3;
    ptm->tm_hour = atoi(psz);
    psz += 3;
    ptm->tm_min = atoi(psz);
    psz += 3;
    ptm->tm_sec = atoi(psz);
    if (uLen >= TIMEB_STRING_SZ) // Millis present
    {
        psz += 3;
        p_tb1->millitm = atoi(psz);
    }
    else
        p_tb1->millitm = 0;
    p_tb1->time = mktime(ptm);
    return (FALSE);
}; // TimebFromString

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

//=====
// Function name: TimebAddMillisecs
//=====
VOID TimebAddMillisecs(struct _timeb * p_tb, TMILLI tmMillisecs)
{
    time_t ttSecs;

```

```

    unsigned short utm;

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

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

    p_tb->time += ttSecs;
}; //TimebAddMillisecs

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

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

    if (bHRT == FALSE)

```

```

    {
        ftime(p_tb);
        return (TRUE);
    }

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

    d1 = (DOUBLE)(liTickCount.QuadPart -liInitialTickCount.QuadPart);
    d2 = dTickMillisecs * d1;
    d1 = d2 + 0.5;

    tmMillisecs = (TMILLI) d1;

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

    return(TRUE);
} //TimebStamp

```

timesupp.h

```

// timesupp.h

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

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

typedef ULONG TMILLI;
typedef ULONG TMICRO;

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

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

```

diagio.h

```

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

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

#define DIAGNOSTICS TRUE
#define MAX_DIAG_SZ 2000

```

```

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

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

```

diagio.cpp

```

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

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

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

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

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

```

```

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

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

//=====
// Function name: DiagIoWrite
//
//=====
VOID DiagIoWrite(CHAR * pDiagBuffer, UINT uSeverity)
{
    CHAR * pDMsgs[3];
    UINT uMsgCnt = 0;
    INT iERslt = 0;
    if (DIAGNOSTICS)
    {
        if (uDiagLevel >= uSeverity)
        {
            EnterCriticalSection(&csDiagIo);
            try
            {
                if (uSeverity == DIAG_ERROR)
                {
                    pDMsgs[0] = pDiagHdr;
                    pDMsgs[1] = pErrHdr;
                    pDMsgs[2] = pDiagBuffer;
                    uMsgCnt = 3;
                }
                else
                {
                    pDMsgs[0] = pDiagHdr;
                    pDMsgs[1] = pDiagBuffer;
                    uMsgCnt = 2;
                }
            };
            if (bEventLog)
                iERslt = WriteEventLog(pDMsgs,uMsgCnt,uSeverity);
            if (bConsoleLog)
            {
                if (uMsgCnt == 3)
                    fprintf(stdout,"%s\n%s\n",pDMsgs[0],pDMsgs[1],pDMsgs[2]);
                else
                    fprintf(stdout,"%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 @1PRIVATE
    DllCanUnloadNow @2PRIVATE
    DllRegisterServer @3 PRIVATE
    DllUnregisterServer@4 PRIVATE

```

tpccproxy.idl

```

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

```

```

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

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

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

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

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

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

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

```

tpccsvr.def

; tpccsvr.def : Declares the module parameters.

```

LIBRARY      "tpcc_com_all.dll"

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

```

tpccsvr.idl

```

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

interface TPCC;

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

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

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

```

tpccsvr.h

```

// tpccsvr.h
// Copyright Unisys, 1999

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

    CTPCC Common();
    ~CTPCC_Common();

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

    // IObjectControl

```

```

    STDMETHODCALLTYPE CanBePooled() {return m_bCanBePooled;}
    STDMETHODCALLTYPE Activate() {return S_OK;} // no transactions enlistment
    STDMETHODCALLTYPE Deactivate() {}
};

// IObjectConstruct
STDMETHODIMP Construct(IDispatch * pUnk);

// state
private:
    bool m_bCanBePooled;
    long m_lRefId;
    int m_iMaxRetry;
    int m_iTryCount;
    bool m_bTPRSlt;
    int m_iTPRSlt;
    union
    {
        NEW_ORDER_DATA NOData;
        PAYMENT_DATA PYData;
        DELIVERY_DATA DLData;
        ORDER_STATUS_DATA OSData;
        STOCK_LEVEL_DATA SLData;
    } m_TData;
    SQLHDBC m_hdbc;
    SQLHSTMT m_hstmt;
    SQLHSTMT m_hstmtNewOrder;
    SQLHSTMT m_hstmtPayment;
    SQLHSTMT m_hstmtDelivery;
    SQLHSTMT m_hstmtOrderStatus;
    SQLHSTMT m_hstmtStockLevel;
    SQLHDESC m_descNewOrderCols1;
    SQLHDESC m_descNewOrderCols2;
    SQLHDESC m_descOrderStatusCols1;
    SQLHDESC m_descOrderStatusCols2;
    SQLUIINTEGER m_BindOffset;
    SQLUIINTEGER m_RowsFetched;
    int m_no_commit_flag;

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

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

    BEGIN_COM_MAP(CTPCC)
        COM_INTERFACE_ENTRY2(IUnknown, CComObjectRootEx)
        COM_INTERFACE_ENTRY_CHAIN(CTPCC_Common)
    END_COM_MAP()
}; // Class CTPCC

```

tpccsvr.cpp

```

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

```

```

// Copyright Microsoft, 1999

#define STRICT
#define WIN32_WINNT 0x0400
#define _ATL_APARTMENT_THREADED

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

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

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

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

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

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

CComModule _Module;

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

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

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

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

```

```

int iSPNumber = 0;
wchar_t wszSPNumber[100];

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

extern "C"
BOOL WINAPI DllMain(HINSTANCE hInst,ULONG ul_reason_for_call,LPVOID
lpReserved)
{
    char szDiag[300];
    DWORD dwCNSize = MAX_COMPUTERNAME_LENGTH;
    try
    {
        switch(ul_reason_for_call)
        {
            case DLL_PROCESS_ATTACH:
                if (fp == NULL)
                    fp = fopen("c:\\temp\\tpccsvr.txt", "w");

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

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

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

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

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

```

```

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

return TRUE;
}; // DllMain

STDAPI DllCanUnloadNow(void)
{
    return (_Module.GetLockCount()==0) ? S_OK : S_FALSE;
};

STDAPI DllGetClassObject(REFCLSID rclsid,REFIID riid,LPVOID* ppv)
{
    return _Module.GetClassObject(rclsid,riid,ppv);
};

STDAPI DllRegisterServer(void)
{
    WriteEventLog("DllRegisterServer", FALSE);

    // registers object, typelib and all interfaces in typelib
    return _Module.RegisterServer(TRUE);
};

STDAPI DllUnregisterServer(void)
{
    WriteEventLog("DllUnregisterServer", FALSE);

    _Module.UnregisterServer();
    return S_OK;
};

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

CTPCC_Common::CTPCC_Common()
{
    char szDiag[300];
    Sleep(100);
    m_bCanBePooled = TRUE;
    m_iMaxRetry = iDeadlockRetry;
    m_lRefId = InterlockedIncrement(&lCount);
    InterlockedIncrement(&lActive);
    m_hdbc = SQL_NULL_HDBC;
    m_hstmt = SQL_NULL_HSTMT;
    m_hstmtNewOrder = SQL_NULL_HSTMT;
    m_hstmtPayment = SQL_NULL_HSTMT;
    m_hstmtDelivery = SQL_NULL_HSTMT;

```



```

m_hstmtOrderStatus = SQL_NULL_HSTMT;
m_hstmtStockLevel = SQL_NULL_HSTMT;
m_descNewOrderCols1 = SQL_NULL_HDESC;
m_descNewOrderCols2 = SQL_NULL_HDESC;
m_descOrderStatusCols1 = SQL_NULL_HDESC;
m_descOrderStatusCols2 = SQL_NULL_HDESC;
wsprintf(szDiag, "CTPCC Common: Initialized %ld\n", m_lRefId);
WriteEventLog(szDiag, FALSE);
};

CTPCC_Common::~CTPCC_Common()
{
    char szDiag[300];
    SQLFreeHandle(SQL_HANDLE_STMT, m_hstmtNewOrder);
    SQLFreeHandle(SQL_HANDLE_STMT, m_hstmtPayment);
    SQLFreeHandle(SQL_HANDLE_STMT, m_hstmtDelivery);
    SQLFreeHandle(SQL_HANDLE_STMT, m_hstmtOrderStatus);
    SQLFreeHandle(SQL_HANDLE_STMT, m_hstmtStockLevel);
    SQLDisconnect(m_hdbc);
    SQLFreeHandle(SQL_HANDLE_DBC, m_hdbc);
    InterlockedDecrement(&lActive);
    wsprintf(szDiag, "~CTPCC Common(%ld): Database closed\n", m_lRefId);
    WriteEventLog(szDiag, FALSE);
};

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

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

```

```

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

return(bRslt);
}; // CheckDBError

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

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

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

```

```

strcpy(buffer,"set nocount on set XACT_ABORT ON");
rc = SQLExecDirect(m_hstmt, (unsigned char *)buffer,SQL_NTS);
if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
{
    wsprintf(szDiag,"Construct(%ld): Set DB Options
failed\n",m_lRefId);
    CheckDBError(szDiag);
    return(E_FAIL);
};
SQLFreeHandle(SQL_HANDLE_STMT,m_hstmt);

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

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

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

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

    if (SQLAllocHandle(SQL_HANDLE_STMT,m_hdbc,&m_hstmtNewOrder) !=
SQL_SUCCESS
|| SQLAllocHandle(SQL_HANDLE_DESC,m_hdbc,&m_descNewOrderCols1) !=
SQL_SUCCESS
|| SQLAllocHandle(SQL_HANDLE_DESC,m_hdbc,&m_descNewOrderCols2) !=
SQL_SUCCESS
)
    {
        wsprintf(szDiag,"InitNOParams(%ld): Allocate Stmt Handles

```

```

failed\n",m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };

    m_hstmt = m_hstmtNewOrder;

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

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

    for (j=0; j < MAX_OL; j++)
    {
        if
(SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,
0,0,&m_TData.NOData.ol[j].ol_i_id,0,NULL) != SQL_SUCCESS
#ifdef LONG_WID
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,
#else
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SSHORT,SQL_SMALLINT,
#endif
0,0,&m_TData.NOData.ol[j].ol_supply_w_id,0,NULL) !=
SQL_SUCCESS
||
SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SSHORT,SQL_SMALLINT,
0,0,&m_TData.NOData.ol[j].ol_quantity,0,NULL) !=
SQL_SUCCESS
)
        {
            wsprintf(szDiag,"InitNOParams(%ld): Bind Param(%d)
failed\n",m_lRefId,j);

```



```

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

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

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

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

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

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

// Get order line results
m_TData.NODData.total_amount = 0;
for (i = 0; i < m_TData.NODData.o_ol_cnt; i++)
{
    // set the bind offset value...
    m_BindOffset = i * sizeof(m_TData.NODData.Ol[0]);
    if (SQLFetch(m_hstmt) == SQL_ERROR)

```

```

{
    wsprintf(szDiag,"NewOrder(%ld): Fetch
Ol\n",m_lRefId);
    if (CheckDBError(szDiag))
        m_iTPRslt = SVCERR_ODBC;
    else
        bRetry = TRUE;
    break;
};
};

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

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

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

SQLFreeStmt(m_hstmt,SQL_CLOSE);

if (m_no_commit_flag == 1)
{
    m_TData.NODData.total_amount *=
    ((1 + m_TData.NODData.w_tax + m_TData.NODData.d_tax) *
(1 - m_TData.NODData.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)
    sprintf(pnod->execution_status, "Hit retry
max(%d).", m_iMaxRetry);
else
    strcpy(pnod->execution_status, "DBTranAbort, Check Input Data");
return(S_OK);
}
catch (...)
{
    sprintf(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)
    {
        sprintf(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
}
{
    sprintf(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

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```

||
SQLBindCol(m_hstmt, ++i, SQL_C_TYPE_TIMESTAMP, &m_TData.PYData.c_since,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_credit,
sizeof(m_TData.PYData.c_credit), NULL) != SQL_SUCCESS
||
SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.PYData.c_credit_lim,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.PYData.c_discount,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.PYData.c_balance,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.PYData.c_data,
sizeof(m_TData.PYData.c_data), NULL) != SQL_SUCCESS
}
}
wsprintf(szDiag, "InitPYParams(%ld): Bind Col failed\n", m_lRefId);
CheckDBError(szDiag);
return(TRUE);
};
return(FALSE);
}; // InitPYParams

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

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

    ppd = (PAYMENT_DATA *) *pTData;
    try
    {
        m_hstmt = m_hstmtPayment;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        if (ppd->c_id != 0)
            ppd->c_last[0] = 0;
        memcpy(&m_TData.PYData, ppd, sizeof(PAYMENT_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
        {
            rc = SQLExecDirectW(m_hstmt, (SQLWCHAR *) szSqlTemplate, SQL_NTS);
            if (m_iTryCount > 1 && (rc == SQL_SUCCESS || rc ==
SQL_SUCCESS_WITH_INFO))
            {
                wsprintf(szDiag, "Payment(%ld): Execute Direct Attempt %ld
SUCCESS \n", m_lRefId, m_iTryCount);
                WriteEventLog(szDiag, FALSE);
            }
            if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
            {
                wsprintf(szDiag, "Payment(%ld): Execute Direct\n", m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
        };
        if (SQLFetch(m_hstmt) == SQL_ERROR)

```

```

{
    wsprintf(szDiag, "Payment(%ld): Fetch\n", m_lRefId);
    if (CheckDBError(szDiag))
    {
        m_iTPRslt = SVCERR_ODBC;
        break;
    };
    continue;
};
SQLFreeStmt(m_hstmt, SQL_CLOSE);
if (m_TData.PYData.c_id == 0)
    m_iTPRslt = SVCERR_NOCUSTOMER;
else
{
    m_bTPRslt = FALSE;
    m_iTPRslt = SVC_NOERROR;
}
break;
}; // for m_iMaxRetry
memcpy(ppd, &m_TData.PYData, sizeof(PAYMENT_DATA));
ppd->bTPRslt = m_bTPRslt;
ppd->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
{
    strcpy(ppd->execution_status, "Transaction committed.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_NOCUSTOMER)
{
    strcpy(ppd->execution_status, "Invalid Customer id,name.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_DEADLOCK)
    wsprintf(ppd->execution_status, "Hit retry max(%d).", m_iMaxRetry);
else
    strcpy(ppd->execution_status, "DBTranAbort, Check Input Data");
return(S_OK);
}
catch (...)
{
    wsprintf(szDiag, "Payment(%ld): Unhandled exception\n", m_lRefId);
    WriteEventLog(szDiag, TRUE);
    m_bCanBePooled = FALSE;
    ppd->bTPRslt = TRUE;
    ppd->iTPRslt = SVCERR_EXCEPTION;
    strcpy(ppd->execution_status, "Error, Unhandled exception");
    return(S_OK);
};
}; // Payment

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

```

```

(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
#else
if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,
#endif
0, 0, &m_TData.DLData.w_id, 0, NULL) != SQL_SUCCESS
||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,
0, 0, &m_TData.DLData.o_carrier_id, 0, NULL) != SQL_SUCCESS
)
{
wsprintf(szDiag, "InitDLParams(%ld): Bind Param
failed\n", m_lRefId);
CheckDBError(szDiag);
return(TRUE);
};
for (i = 0; i < 10; i++)
{
if
(SQLBindCol(m_hstmt, (UWORD)(i+1), SQL_C_SLONG, &m_TData.DLData.o_id[i],
0, NULL) != SQL_SUCCESS)
{
wsprintf(szDiag, "InitPYParams(%ld): Bind Col (%d)
failed\n", m_lRefId, (i+1));
CheckDBError(szDiag);
return(TRUE);
};
};
return(FALSE);
}; // InitDLParams
HRESULT CTPCC_Common::Delivery(int * iSize, UCHAR ** pTData)
{
DELIVERY_DATA * pdd;
RETCODE rc;
char szDiag[300];

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

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

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

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

if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
{

```

```

wsprintf(szDiag, "Delivery(%ld): Execute Direct\n", m_lRefId);
if (CheckDBError(szDiag))
{
m_iTPRslt = SVCERR_ODBC;
break;
};
continue;
};
if (SQLFetch(m_hstmt) == SQL_ERROR)
{
wsprintf(szDiag, "Delivery(%ld): Fetch\n", m_lRefId);
if (CheckDBError(szDiag))
{
m_iTPRslt = SVCERR_ODBC;
break;
};
continue;
};
SQLFreeStmt(m_hstmt, SQL_CLOSE);
m_bTPRslt = FALSE;
m_iTPRslt = SVC_NOERROR;
break;
}; // for m_iMaxRetry
memcpy(pdd, &m_TData.DLData, sizeof(DELIVERY_DATA));
pdd->bTPRslt = m_bTPRslt;
pdd->iTPRslt = m_iTPRslt;
return(S_OK);
}
catch (...)
{
wsprintf(szDiag, "Delivery(%ld): Unhandled exception\n", m_lRefId);
WriteEventLog(szDiag, TRUE);
m_bCanBePooled = FALSE;
pdd->bTPRslt = TRUE;
pdd->iTPRslt = SVCERR_EXCEPTION;
return(S_OK);
}; // Delivery
bool CTPCC_Common::InitOSParams(void)
{
char szDiag[300];
int i;
if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmtOrderStatus) !=
SQL_SUCCESS
|| SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc, &m_descOrderStatusCols1)
!= SQL_SUCCESS
|| SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc, &m_descOrderStatusCols2)
!= SQL_SUCCESS
)
{
wsprintf(szDiag, "InitOSParams(%ld): Allocate Stmt Handles
failed\n", m_lRefId);
CheckDBError(szDiag);
return(TRUE);
};
m_hstmt = m_hstmtOrderStatus;
if (SQLSetStmtAttrW(m_hstmt, SQL_ATTR_APP_ROW_DESC,
m_descOrderStatusCols1, SQL_IS_POINTER) != SQL_SUCCESS)
{
wsprintf(szDiag, "InitOSParams(%ld): SetStmtAttr OSCols1
failed\n", m_lRefId);
CheckDBError(szDiag);
return(TRUE);
}

```

```

};
i = 0;
#ifdef LONG_WID
if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
#else
if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SSHORT, SQL_SMALLINT,
#endif
0, 0, &m_TData.OSData.w_id, 0, NULL) != SQL_SUCCESS
||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_UTINYINT, SQL_TINYINT,
0, 0, &m_TData.OSData.d_id, 0, NULL) != SQL_SUCCESS
||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
0, 0, &m_TData.OSData.c_id, 0, NULL) != SQL_SUCCESS
||
SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_CHAR, SQL_CHAR,
sizeof(m_TData.OSData.c_last), 0, &m_TData.OSData.c_last,
sizeof(m_TData.OSData.c_last), NULL) != SQL_SUCCESS
)
{
wsprintf(szDiag, "InitOSParams(%ld): Bind Param failed\n", m_lRefId);
CheckDBError(szDiag);
return(TRUE);
};
// configure block cursor
if (SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROW_BIND_TYPE,
(SQLPOINTER) sizeof(m_TData.OSData.OlOrderStatusData[0]), 0) !=
SQL_SUCCESS
|| SQLSetStmtAttrW(m_hstmt, SQL_ATTR_ROWS_FETCHED_PTR,
&m_RowsFetched, 0) != SQL_SUCCESS
)
{
wsprintf(szDiag, "InitOSParams(%ld): SetStmtAttr RowsFetched
failed\n", m_lRefId);
CheckDBError(szDiag);
return(TRUE);
};
i = 0;
#ifdef LONG_WID
if (SQLBindCol(m_hstmt, ++i, SQL_C_SLONG,
#else
if (SQLBindCol(m_hstmt, ++i, SQL_C_SSHORT,
#endif
&m_TData.OSData.OlOrderStatusData[0].ol_supply_w_id, 0, NULL)
!= SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_SLONG,
&m_TData.OSData.OlOrderStatusData[0].ol_i_id, 0, NULL) !=
SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_SSHORT,
&m_TData.OSData.OlOrderStatusData[0].ol_quantity, 0, NULL) !=
SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE,
&m_TData.OSData.OlOrderStatusData[0].ol_amount, 0, NULL) !=
SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_TYPE_TIMESTAMP,
&m_TData.OSData.OlOrderStatusData[0].ol_delivery_d, 0, NULL)
!= SQL_SUCCESS
)
{
wsprintf(szDiag, "InitOSParams(%ld): Bind Col Ol
failed\n", m_lRefId);

```

```

CheckDBError(szDiag);
return(TRUE);
};
if (SQLSetStmtAttrW(m_hstmt, SQL_ATTR_APP_ROW_DESC,
m_descOrderStatusCols2, SQL_IS_POINTER) != SQL_SUCCESS)
{
wsprintf(szDiag, "InitOSParams(%ld): SetStmtAttr OSCols2
failed\n", m_lRefId);
CheckDBError(szDiag);
return(TRUE);
};
i = 0;
if (SQLBindCol(m_hstmt, ++i, SQL_C_SLONG, &m_TData.OSData.c_id,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.OSData.c_last,
sizeof(m_TData.OSData.c_last), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.OSData.c_first,
sizeof(m_TData.OSData.c_first), NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_CHAR, &m_TData.OSData.c_middle,
sizeof(m_TData.OSData.c_middle), NULL) != SQL_SUCCESS
||
SQLBindCol(m_hstmt, ++i, SQL_C_TYPE_TIMESTAMP, &m_TData.OSData.o_entry_d,
0, NULL) != SQL_SUCCESS
||
SQLBindCol(m_hstmt, ++i, SQL_C_SSHORT, &m_TData.OSData.o_carrier_id,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_DOUBLE, &m_TData.OSData.c_balance,
0, NULL) != SQL_SUCCESS
|| SQLBindCol(m_hstmt, ++i, SQL_C_SLONG, &m_TData.OSData.o_id,
0, NULL) != SQL_SUCCESS
)
{
wsprintf(szDiag, "InitOSParams(%ld): Bind Col failed\n", m_lRefId);
CheckDBError(szDiag);
return(TRUE);
};
return(FALSE);
}; // InitOSParams
HRESULT CTPCC_Common::OrderStatus(int * iSize, UCHAR ** pData)
{
ORDER_STATUS_DATA * posd;
RETCODE rc;
char szDiag[300];

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

posd = (ORDER_STATUS_DATA *) *pData;
try
{
m_hstmt = m_hstmtOrderStatus;
m_bTPRslt = TRUE;
m_iTPRslt = SVCERR_DEADLOCK;
if (SQLSetStmtAttrW(m_hstmt, SQL_ATTR_APP_ROW_DESC,
m_descOrderStatusCols1, SQL_IS_POINTER) != SQL_SUCCESS)
{
wsprintf(szDiag, "OrderStatus(%ld): SetStmtAttr
OSCols1\n", m_lRefId);
CheckDBError(szDiag);

```



```

        posd->bTPRslt = TRUE;
        posd->iTPRslt = SVCERR_ODBC;
        strcpy(posd->execution_status,"Error, SetStmt OSCols1");
        return(S_OK);
    };
    if (posd->c_id != 0)
        posd->c_last[0] = 0;
    memcpy(&m_TData.OSData,posd,sizeof(ORDER_STATUS_DATA));
    for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
    {
        // configure block cursor
        if
        (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_ROW_ARRAY_SIZE,(SQLPOINTER)1,0) !=
        SQL_SUCCESS)
        {
            fprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
            RowArraySize\n",m_lRefId);
            if (CheckDBError(szDiag))
            {
                m_iTPRslt = SVCERR_ODBC;
                break;
            };
            continue;
        };
        rc = SQLExecDirectW(m_hstmt,(SQLWCHAR*) szSqlTemplate,SQL_NTS);
        if (m_iTryCount > 1 && (rc == SQL_SUCCESS || rc ==
        SQL_SUCCESS_WITH_INFO))
        {
            fprintf(szDiag,"OrderStatus(%ld): Execute Direct Attempt %ld
            SUCCESS \n",m_lRefId, m_iTryCount);
            WriteEventLog(szDiag, FALSE);
        }
        if ( ((rc == SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0)) ||
        (rc == SQL_ERROR) )
        {
            fprintf(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)
        {
            fprintf(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) )
        {
            fprintf(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)
            {
                fprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
                OSCols2\n",m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            if (SQLMoreResults(m_hstmt) == SQL_ERROR)
            {
                fprintf(szDiag,"OrderStatus(%ld):
                MoreResults\n",m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            if (SQLFetch(m_hstmt) == SQL_ERROR)
            {
                fprintf(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)
                {
                    fprintf(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 (...)
{
    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

```

```

)
{
    sprintf(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)
{
    sprintf(szDiag,"InitSLParams(%ld): Bind Column failed\n",m_lRefId);
    CheckDBError(szDiag);
    return(TRUE);
};
return(FALSE);
}; // InitSLParams
HRESULT CTPCC_Common::StockLevel(int * iSize,UCHAR ** pData)
{
    STOCK_LEVEL_DATA * pslid;
    RETCODE rc;
    char szDiag[300];

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

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

    pslid = (STOCK_LEVEL_DATA *) *pData;
    try
    {
        m_hstmt = m_hstmtStockLevel;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        memcpy(&m_TData.SLData,pslid,sizeof(STOCK_LEVEL_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
        {
            rc = SQLExecDirectW(m_hstmt,(SQLWCHAR*)
szSqlTemplate,SQL_NTS);

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

            if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
            {
                sprintf(szDiag,"StockLevel(%ld): Execute Direct\n",m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            if (SQLFetch(m_hstmt) == SQL_ERROR)
            {
                sprintf(szDiag,"StockLevel(%ld): Fetch\n",m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
            };
        };
    };
};

```

```

        continue;
    };
    SQLFreeStmt(m_hstmt, SQL_CLOSE);
    m_bTPRslt = FALSE;
    m_iTPRslt = SVC_NOERROR;
    break;
}; // for m_iMaxRetry
memcpy(psld, &m_TData.SLData, sizeof(STOCK_LEVEL_DATA));
psld->bTPRslt = m_bTPRslt;
psld->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
{
    strcpy(psld->execution_status, "Transaction committed.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_DEADLOCK)
    wsprintf(psld->execution_status, "Hit retry
max(%d).", m_iMaxRetry);
else
    strcpy(psld->execution_status, "DBTranAbort, Check Input Data");
return(S_OK);
}
catch (...)
{
    wsprintf(szDiag, "StockLevel(%ld): Unhandled exception\n", m_lRefId);
    WriteEventLog(szDiag, TRUE);
    m_bCanBePooled = FALSE;
    psld->bTPRslt = TRUE;
    psld->iTPRslt = SVCERR_EXCEPTION;
    strcpy(psld->execution_status, "Error, Unhandled exception");
    return(S_OK);
};
}; // Stocklevel
//=====
// Function name: ReadRegistry
//
// Sets global operational parameters from registry if they exist.
// Otherwise, compiled in defaults apply.
//
// Result:
// FALSE Registry entry found
// TRUE Registry entry does not exist
//=====
bool ReadRegistry(VOID)
{
    HKEY hkTPCC;
    DWORD dwMax;
    DWORD dwRT;
    CHAR * pszEnvData;
    char szValue[100];
    if (RegOpenKeyEx(HKEY_LOCAL_MACHINE, "SOFTWARE\\Unisys\\TPCC", 0,
        KEY_READ, &hkTPCC) != ERROR_SUCCESS)
        return(TRUE);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "SERVERNAME", 0, &dwRT, (BYTE *)
&szValue, &dwMax)
        == ERROR_SUCCESS)
        strcpy(szServer, szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "DATABASE", 0, &dwRT, (BYTE *)
&szValue, &dwMax)
        == ERROR_SUCCESS)
        strcpy(szDatabase, szValue);
}

```

```

    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "USER", 0, &dwRT, (BYTE *) &szValue, &dwMax)
        == ERROR_SUCCESS)
        strcpy(szUser, szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "PASSWORD", 0, &dwRT, (BYTE *)
&szValue, &dwMax)
        == ERROR_SUCCESS)
        strcpy(szPassword, szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC, "MAXRETRY", 0, &dwRT, (BYTE *)
&szValue, &dwMax)
        == ERROR_SUCCESS)
        iDeadlockRetry = abs(atoi(szValue));
    RegCloseKey(hkTPCC);
    if ((pszEnvData = getenv("WEBINSTANCE")) != NULL)
        strcpy(szServer, pszEnvData);
    if ((pszEnvData = getenv("WEBDATABASE")) != NULL)
        strcpy(szDatabase, pszEnvData);
    if ((pszEnvData = getenv("WEBDRIVERNO")) != NULL)
        iInstance = abs(atoi(pszEnvData));
    if ((pszEnvData = getenv("WEBSNUMBER")) != NULL)
    {
        iSPNumber = abs(atoi(pszEnvData));
        swprintf(wszSPNumber, L"%2.2d", iSPNumber);
    };
    return(FALSE);
}; // ReadRegistry
//=====
// Function name: WriteEventLog
//=====
void WriteEventLog(char * pMsg, bool bError)
{
    WORD wType;
    char szHeader[100];
    char * pDMsgs[2];
    HANDLE hEventLog = NULL;
    if (bError)
        wType = EVENTLOG_ERROR_TYPE;
    else
        wType = EVENTLOG_INFORMATION_TYPE;
    hEventLog = RegisterEventSource(NULL, pProgId);
    wsprintf(szHeader, "%s (%ld)\n", pProgId, GetCurrentThreadId());
    pDMsgs[0] = szHeader;
    pDMsgs[1] = pMsg;
    if (hEventLog != NULL)
    {
        ReportEvent(hEventLog, // event log handle
            wType, // event type
            0, // category zero
            0, // no event identifier
            NULL, // no user security identifier
            2, // # of substitution strings
            0, // no binary data
            (LPCTSTR *) pDMsgs, // address of string array
            NULL); // address of binary data
        DeregisterEventSource(hEventLog);
    };
    char szTimeStr[64];
    TimeStamp(szTimeStr);
}

```

```

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

//=====
//
// Function name: TimebToString
// Converts timeb to yyyy:mm:dd,hh:mm:ss.sss format
//
//=====
CHAR * TimeStamp(char *timeStr)

```

```

{
    struct _timeb tb;
    struct _tm *ptm;

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

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

    return(timeStr);
}; // TimebToString

```

Appendix B - Database Design

Build Scripts

BACKUP.SQL

```
declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select 'Start date:', convert (varchar(30),@startdate,9)
backup database tpcc to
    DISK = 'C:\Bigdb\dbbackups\BackupA1\backupA1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupB1\backupB1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupC1\backupC1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupD1\backupD1.dmp',
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    DISK = 'C:\Bigdb\dbbackups\BackupK1\backupK1.dmp',
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    DISK = 'C:\Bigdb\dbbackups\BackupM1\backupM1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupN1\backupN1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupO1\backupO1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupP1\backupP1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupQ1\backupQ1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupR1\backupR1.dmp'
with format, stats = 1
select @enddate = getdate()
select 'End date:', convert (varchar(30),@enddate,9)
select 'Elapsed time (in seconds):', datediff(second, @startdate, @enddate)
go
restore verifyonly from
    DISK = 'C:\Bigdb\dbbackups\BackupA1\backupA1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupB1\backupB1.dmp',
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    DISK = 'C:\Bigdb\dbbackups\BackupK1\backupK1.dmp',
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    DISK = 'C:\Bigdb\dbbackups\BackupM1\backupM1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupN1\backupN1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupO1\backupO1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupP1\backupP1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupQ1\backupQ1.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupR1\backupR1.dmp'
go
backup database tpcc to
    DISK = 'C:\Bigdb\dbbackups\BackupA2\backupA2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupB2\backupB2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupC2\backupC2.dmp',
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DISK = 'C:\Bigdb\dbbackups\BackupM2\backupM2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupN2\backupN2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupO2\backupO2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupP2\backupP2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupQ2\backupQ2.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupR2\backupR2.dmp'
with format, stats = 1
go
restore verifyonly from
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    DISK = 'C:\Bigdb\dbbackups\BackupN2\backupN2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupO2\backupO2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupP2\backupP2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupQ2\backupQ2.dmp',
    DISK = 'C:\Bigdb\dbbackups\BackupR2\backupR2.dmp'
go
```

CREATEDB.SQL

```
SET ANSI_NULL_DFLT_OFF ON
go
use master
go
if exists ( select name from sysobjects where name = 'tpcc_timer' )
drop table tpcc_timer
go
create table tpcc_timer
(
    start_date          char(30),
    end_date            char(30)
)
insert into tpcc_timer values (0,0)
go
update tpcc_timer
set start_date= (select convert(char(30), getdate(),9))
go
CREATE DATABASE tpcc
ON PRIMARY
(
    NAME = MSSQL_tpcc_root,
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( NAME = MSSQL_ordB3,
  FILENAME = "C:\Bigdb\cabB\ord3\",
  SIZE      = 17500MB, FILEGROWTH = 0),
( NAME = MSSQL_ordB4,
  FILENAME = "C:\Bigdb\cabB\ord4\",
  SIZE      = 17500MB, FILEGROWTH = 0)
LOG ON
( NAME = MSSQL_tpcc_log1,
  FILENAME = "C:\Bigdb\blogs\tpcclog1\",
  SIZE = 1800000MB, FILEGROWTH = 0)
update tpcc_timer
set end_date= (select convert(char(30), getdate(),9))
go
select "Elapsed time (in seconds): ", datediff(second,(select start_date

```

```

from tpcc_timer),(select end_date from tpcc_timer))
if exists( select name from sysobjects where name = 'tpcc_timer' )
drop table tpcc_timer
go

```

DBOPT1.SQL

```

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

ALTER DATABASE tpcc SET RECOVERY BULK_LOGGED
GO

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

ALTER DATABASE tpcc SET TORN_PAGE_DETECTION OFF
GO

ALTER DATABASE tpcc SET PAGE_VERIFY NONE
GO

USE tpcc
GO

CHECKPOINT
GO

```

DBOPT2.SQL

```

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

USE tpcc
GO

CHECKPOINT
GO

sp_configure 'allow updates',1
GO

RECONFIGURE WITH OVERRIDE

```

```

GO

DECLARE @msg          varchar(50)

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

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

EXEC sp_indexoption'customer',      'DisallowPageLocks',TRUE
EXEC sp_indexoption'district',     'DisallowPageLocks',TRUE
EXEC sp_indexoption'warehouse',    'DisallowPageLocks',TRUE
EXEC sp_indexoption'stock',        'DisallowPageLocks',TRUE
EXEC sp_indexoption'order line',    'DisallowRowLocks',   TRUE
EXEC sp_indexoption'orders',       'DisallowRowLocks',   TRUE
EXEC sp_indexoption'new_order',    'DisallowRowLocks',   TRUE
EXEC sp_indexoption'item',         'DisallowRowLocks',   TRUE
EXEC sp_indexoption'item',         'DisallowPageLocks',  FALSE
GO

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

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

ORDER BY lockflags asc
GO

sp_configure 'allow updates',0
GO

RECONFIGURE WITH OVERRIDE
GO

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

DECLARE @db_id int,
        @tbl_id int

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

```

```

SET      @tbl_id = OBJECT ID('tpcc..district')
DBCC PINTABLE (@db_id, @tbl_id)

SET      @tbl_id = OBJECT ID('tpcc..new_order')
DBCC PINTABLE (@db_id, @tbl_id)

SET      @tbl_id = OBJECT ID('tpcc..item')
DBCC PINTABLE (@db_id, @tbl_id)
GO

```

REMOVEDB.SQL

```

-----
-- File:      REMOVEDB.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
-----
USE master
GO
-- remove any existing database and backup files
-----
EXEC sp_dbremove tpcc, dropdev
GO

```

RESTORE.SQL

```

declare @startdate datetime
declare @enddate datetime
select @startdate = getdate()
select 'Start date:', convert (varchar(30),@startdate,9)
restore database tpcc from
DISK = 'C:\Bigdb\dbbackups\BackupA3\backupA3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupB3\backupB3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupC3\backupC3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupD3\backupD3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupE3\backupE3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupF3\backupF3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupG3\backupG3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupH3\backupH3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupI3\backupI3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupJ3\backupJ3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupK3\backupK3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupL3\backupL3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupM3\backupM3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupN3\backupN3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupO3\backupO3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupP3\backupP3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupQ3\backupQ3.dmp',
DISK = 'C:\Bigdb\dbbackups\BackupR3\backupR3.dmp'
with replace, stats = 1
select @enddate = getdate()
select 'End date:', convert (varchar(30),@enddate,9)
select 'Elapsed time (in seconds):', datediff(second, @startdate,
@enddate)
go
use tpcc
EXEC sp_tableoption 'new_order','pintable',false
go

```

TEMPDB.SQL

```

ALTER database tempdb
add file
( NAME = tempdbA4,
FILENAME = "C:\Bigdb\dbbackups\backupA4\tempdbA4.mdf",
SIZE = 15000 MB,
FILEGROWTH = 10%,
MAXSIZE = 878481 MB),
( NAME = tempdbB4,
FILENAME = "C:\Bigdb\dbbackups\backupB4\tempdbB4.mdf",
SIZE = 15000 MB,
FILEGROWTH = 10%,
MAXSIZE = 878481 MB),
( NAME = tempdbC4,
FILENAME = "C:\Bigdb\dbbackups\backupC4\tempdbC4.mdf",
SIZE = 15000 MB,
FILEGROWTH = 10%,
MAXSIZE = 878481 MB),
( NAME = tempdbD4,
FILENAME = "C:\Bigdb\dbbackups\backupD4\tempdbD4.mdf",
SIZE = 15000 MB,
FILEGROWTH = 10%,
MAXSIZE = 878481 MB),
( NAME = tempdbE4,
FILENAME = "C:\Bigdb\dbbackups\backupE4\tempdbE4.mdf",
SIZE = 15000 MB,
FILEGROWTH = 10%,
MAXSIZE = 878481 MB),
( NAME = tempdbF4,
FILENAME = "C:\Bigdb\dbbackups\backupF4\tempdbF4.mdf",
SIZE = 15000 MB,
FILEGROWTH = 10%,
MAXSIZE = 878481 MB),
( NAME = tempdbG4,
FILENAME = "C:\Bigdb\dbbackups\backupG4\tempdbG4.mdf",
SIZE = 15000 MB,
FILEGROWTH = 10%,
MAXSIZE = 878481 MB),
( NAME = tempdbH4,
FILENAME = "C:\Bigdb\dbbackups\backupH4\tempdbH4.mdf",
SIZE = 15000 MB,
FILEGROWTH = 10%,
MAXSIZE = 878481 MB)
go
ALTER database tempdb
add log file
( NAME = tempdblogI4,
FILENAME = "C:\Bigdb\dbbackups\backupI4\tempdblogI4.ldf",
SIZE = 15000 MB,
FILEGROWTH = 10%,
MAXSIZE = 878481 MB)
go

```

VERIFYTPCCLOAD

```

-----
-- File:      VerifyTPCCLoad.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
-----

```

```

SET NOCOUNT ON
PRINT ' '
SELECT CONVERT(Char(30), GETDATE(), 21)
PRINT ' '

USE tpcc
GO

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

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

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

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

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

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

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

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

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

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

```

```

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

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

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

SELECT @NUM_DISTRICT = COUNT_BIG(*)
FROM district

SELECT @NUM_ITEM = COUNT_BIG(*)
FROM item

SELECT @NUM_CUSTOMER = COUNT_BIG(*)
FROM customer

SELECT @NUM_ORDERS = COUNT_BIG(*)
FROM orders

SELECT @NUM_ORDER_LINE = COUNT_BIG(*)
FROM order_line

```

```

SELECT @NUM_NEW_ORDER      = COUNT_BIG(*)
FROM   new_order

SELECT @NUM_HISTORY        = COUNT_BIG(*)
FROM   history

SELECT @NUM_STOCK          = COUNT_BIG(*)
FROM   stock

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

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

GO

--- output the row counts from the build
PRINT ''
PRINT ''
PRINT '-----|'
PRINT '| WAREHOUSE TABLE |'
PRINT '-----|'

```

```

SELECT TOP 1
CONVERT (CHAR (30), INFO_DATE, 21) AS 'Date',
NUM_WAREHOUSE AS 'Warehouse Rows',
WAREHOUSE_TARGET AS 'Warehouse Target',
CASE WHEN (NUM_WAREHOUSE = WAREHOUSE_TARGET)
THEN 'OK!'
ELSE 'ERROR!!!'
END AS 'Warehouse Message'
FROM TPCC_INFO
GO

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

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

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

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

```

```

        NUM_ORDERS                AS 'Orders Rows',
        ORDERS_TARGET             AS 'Orders Target',
        CASE WHEN (NUM_ORDERS = ORDERS_TARGET)
            THEN 'OK!'
            WHEN (NUM_ORDERS BETWEEN ORDERS_TARGET_LOW AND
ORDERS_TARGET_HIGH)
            THEN 'OK! (within 1%)'
            ELSE 'ERROR!!!'
        END                        AS 'Orders Message'
FROM    TPCC_INFO
GO

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

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

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

```

```

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

```

-- Check

USE tpcc
GO

```

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

```

Indexes and Tables

IDXCUSCL.SQL

```

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

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

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

```

```

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

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

```

IDXCUSNC.SQL

```

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

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

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

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

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

```

IDXDISCL.SQL

```

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

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

```

```

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

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

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

```

IDXHISCL.SQL

```

-----
-- File: IDXHISCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
--
-- Creates clustered index on history table
--
-- CAUTION: This index is only beneficial for systems
-- CAUTION: with 8 or more processors.
-- CAUTION: It may negatively impact performance on
-- CAUTION: systems with less than 8 processors.
-----
USE tpcc
GO

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

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

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

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

```

IDXITMCL.SQL

```

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

```



```

--
-----
USE tpcc
GO

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

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

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

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

```

IDXNODCL.SQL

```

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

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'new_order_c1' )
    DROP INDEX new_order.new_order_c1

CREATE UNIQUE CLUSTERED INDEX new_order_c1 ON new_order(no_w_id, no_d_id,
no_o_id)
    ON MSSQL_ord_fg

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

```

IDXODLCL.SQL

```

--
-----

```

```

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

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

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

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

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

```

IDXORDCL.SQL

```

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

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

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

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

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

```

GO

IDXORDNC.SQL

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

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

--IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'orders_nc1' )
-- DROP INDEX orders.orders_nc1

--CREATE INDEX orders_nc1 ON orders(o_w_id, o_d_id, o_c_id, o_id)
-- ON MSSQL_ord_fg

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

IDXSTKCL.SQL

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

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'stock_c1' )
  DROP INDEX stock.stock_c1

CREATE UNIQUE CLUSTERED INDEX stock_c1 ON stock(s_i_id, s_w_id)
  ON MSSQL_cs_fg

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

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

IDXWARCL.SQL

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

DECLARE @startdateDATETIME,
        @enddateDATETIME

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

IF EXISTS ( SELECT name FROM sysindexes WHERE name = 'warehouse_c1' )
  DROP INDEX warehouse.warehouse_c1

CREATE UNIQUE CLUSTERED INDEX warehouse_c1 ON warehouse(w_id)
  WITH FILLFACTOR=100 ON MSSQL_misc_fg

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

TABLES.SQL

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

USE tpcc
GO

-----
-- Remove all existing TPC-C tables
-----
if exists ( select name from sysobjects where name = 'warehouse' )
  drop table warehouse
go
if exists ( select name from sysobjects where name = 'district' )
  drop table district
```

```

go
if exists ( select name from sysobjects where name = 'customer' )
    drop table customer
go
if exists ( select name from sysobjects where name = 'history' )
    drop table history
go
if exists ( select name from sysobjects where name = 'new_order' )
    drop table new_order
go
if exists ( select name from sysobjects where name = 'orders' )
    drop table orders
go
if exists ( select name from sysobjects where name = 'order_line' )
    drop table order_line
go
if exists ( select name from sysobjects where name = 'item' )
    drop table item
go
if exists ( select name from sysobjects where name = 'stock' )
    drop table stock
go

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

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

create table customer
(
    c_id          int,
    c_d_id        tinyint,
    c_w_id        int,
    c_discount    smallmoney,
    c_credit_lim  money,
    c_last        char(16),
    c_first       char(16),
    c_credit      char(2),

```

```

    c_balance     money,
    c_ytd_payment money,
    c_payment_cnt smallint,
    c_delivery_cnt smallint,
    c_street_1    char(20),
    c_street_2    char(20),
    c_city        char(20),
    c_state       char(2),
    c_zip         char(9),
    c_phone       char(16),
    c_since       datetime,
    c_middle      char(2),
    c_data        text
) on MSSQL_cs_fg
textimage_on MSSQL_misc_fg
go

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

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

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

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

create table order_line
(
    ol_o_id       int,
    ol_d_id       tinyint,
    ol_w_id       int,
    ol_number     tinyint,
    ol_i_id       int,
    ol_delivery_d  datetime,
    ol_amount     smallmoney,
    ol_supply_w_id int,
    ol_quantity   smallint,

```

```

        ol_dist info          char(24)
    ) on MSSQL_ord_fg
go

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

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

```

Stored Procedures

DELIVERY.SQL

```

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

SET ANSI_NULLS ON
GO

USE tpcc
GO

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

```

```

DROP PROCEDURE tpcc_delivery
GO

CREATE PROC tpcc_delivery
    @w_id          int,
    @o_carrier_id smallint
AS
DECLARE @d_id      tinyint,
        @o_id      int,
        @c_id      int,
        @total     money,
        @oid1      int,
        @oid2      int,
        @oid3      int,
        @oid4      int,
        @oid5      int,
        @oid6      int,
        @oid7      int,
        @oid8      int,
        @oid9      int,
        @oid10     int

SELECT @d_id = 0

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

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

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

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

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

            -- accumulate lineitem amounts for this order into customer
            UPDATE customer
            SET    c_balance = c_balance + @total,

```

```

WHERE      c_delivery_cnt = c_delivery_cnt + 1
           c_w_id        = @w_id AND
           c_d_id        = @d_id AND
           c_id          = @c_id
END
SELECT @oid1 = CASE @d_id WHEN 1 THEN @o_id ELSE @oid1 END,
       @oid2 = CASE @d_id WHEN 2 THEN @o_id ELSE @oid2 END,
       @oid3 = CASE @d_id WHEN 3 THEN @o_id ELSE @oid3 END,
       @oid4 = CASE @d_id WHEN 4 THEN @o_id ELSE @oid4 END,
       @oid5 = CASE @d_id WHEN 5 THEN @o_id ELSE @oid5 END,
       @oid6 = CASE @d_id WHEN 6 THEN @o_id ELSE @oid6 END,
       @oid7 = CASE @d_id WHEN 7 THEN @o_id ELSE @oid7 END,
       @oid8 = CASE @d_id WHEN 8 THEN @o_id ELSE @oid8 END,
       @oid9 = CASE @d_id WHEN 9 THEN @o_id ELSE @oid9 END,
       @oid10 = CASE @d_id WHEN 10 THEN @o_id ELSE @oid10 END
END
COMMIT TRANSACTION d
-- return delivery data to client
SELECT @oid1,
       @oid2,
       @oid3,
       @oid4,
       @oid5,
       @oid6,
       @oid7,
       @oid8,
       @oid9,
       @oid10
GO
SET QUOTED_IDENTIFIER OFF
GO
SET ANSI_NULLS ON
GO

```

NEWORD.SQL

```

-----
-- File:      NEWORD.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
--
-- Creates neworder stored procedure
--
-- Interface Level:      4.20.000
-----
SET QUOTED_IDENTIFIER OFF
GO
SET ANSI_NULLS ON
GO
USE tpcc
GO
IF EXISTS ( SELECT name FROM sysobjects WHERE name = 'tpcc_neworder' )
DROP PROCEDURE tpcc_neworder

```

```

GO
CREATE PROCEDURE tpcc_neworder
    @w_id int,
    @d_id tinyint,
    @c_id int,
    @o_ol_cnt tinyint,
    @o_all_local tinyint,
    @i_id1 int = 0, @s_w_id1 int = 0, @ol_qty1
smallint = 0,
    @i_id2 int = 0, @s_w_id2 int = 0, @ol_qty2
smallint = 0,
    @i_id3 int = 0, @s_w_id3 int = 0, @ol_qty3
smallint = 0,
    @i_id4 int = 0, @s_w_id4 int = 0, @ol_qty4
smallint = 0,
    @i_id5 int = 0, @s_w_id5 int = 0, @ol_qty5
smallint = 0,
    @i_id6 int = 0, @s_w_id6 int = 0, @ol_qty6
smallint = 0,
    @i_id7 int = 0, @s_w_id7 int = 0, @ol_qty7
smallint = 0,
    @i_id8 int = 0, @s_w_id8 int = 0, @ol_qty8
smallint = 0,
    @i_id9 int = 0, @s_w_id9 int = 0, @ol_qty9
smallint = 0,
    @i_id10 int = 0, @s_w_id10 int = 0, @ol_qty10
smallint = 0,
    @i_id11 int = 0, @s_w_id11 int = 0, @ol_qty11
smallint = 0,
    @i_id12 int = 0, @s_w_id12 int = 0, @ol_qty12
smallint = 0,
    @i_id13 int = 0, @s_w_id13 int = 0, @ol_qty13
smallint = 0,
    @i_id14 int = 0, @s_w_id14 int = 0, @ol_qty14
smallint = 0,
    @i_id15 int = 0, @s_w_id15 int = 0, @ol_qty15
smallint = 0
AS
DECLARE @w_tax smallmoney,
        @d_tax smallmoney,
        @c_last char(16),
        @c_credit char(2),
        @c_discount smallmoney,
        @i_price smallmoney,
        @i_name char(24),
        @i_data char(50),
        @o_entry_d datetime,
        @remote_flag int,
        @s_quantity smallint,
        @s_data char(50),
        @s_dist char(24),
        @li_no int,
        @o_id int,
        @commit_flag tinyint,
        @li_id int,
        @li_s_w_id int,
        @li_qty smallint,
        @ol_number int,
        @c_id_local int
BEGIN
BEGIN TRANSACTION n

```

```

-----
-- get district tax and next available order id and update
-- plus initialize local variables
-----
UPDATE district
SET   @d_tax      = d_tax,
      @o_id       = d_next_o_id,
      d_next_o_id = d_next_o_id + 1,
      @o_entry_d  = GETDATE(),
      @li_no      = 0,
      @commit_flag = 1
WHERE d_w_id      = @w_id AND
      d_id        = @d_id

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

-----
-- set i_id, s_w_id, and qty for this lineitem
-----
    SELECT @li_id = CASE @li_no
        WHEN 1 THEN @i_id1
        WHEN 2 THEN @i_id2
        WHEN 3 THEN @i_id3
        WHEN 4 THEN @i_id4
        WHEN 5 THEN @i_id5
        WHEN 6 THEN @i_id6
        WHEN 7 THEN @i_id7
        WHEN 8 THEN @i_id8
        WHEN 9 THEN @i_id9
        WHEN 10 THEN @i_id10
        WHEN 11 THEN @i_id11
        WHEN 12 THEN @i_id12
        WHEN 13 THEN @i_id13
        WHEN 14 THEN @i_id14
        WHEN 15 THEN @i_id15
    END,
    @li_s_w_id = CASE @li_no
        WHEN 1 THEN @s_w_id1
        WHEN 2 THEN @s_w_id2
        WHEN 3 THEN @s_w_id3
        WHEN 4 THEN @s_w_id4
        WHEN 5 THEN @s_w_id5
        WHEN 6 THEN @s_w_id6
        WHEN 7 THEN @s_w_id7
        WHEN 8 THEN @s_w_id8
        WHEN 9 THEN @s_w_id9
        WHEN 10 THEN @s_w_id10
        WHEN 11 THEN @s_w_id11
        WHEN 12 THEN @s_w_id12
        WHEN 13 THEN @s_w_id13
        WHEN 14 THEN @s_w_id14
        WHEN 15 THEN @s_w_id15
    END,
    @li_qty = CASE @li_no
        WHEN 1 THEN @ol_qty1
        WHEN 2 THEN @ol_qty2
        WHEN 3 THEN @ol_qty3
        WHEN 4 THEN @ol_qty4
        WHEN 5 THEN @ol_qty5

```

```

        WHEN 6 THEN @ol_qty6
        WHEN 7 THEN @ol_qty7
        WHEN 8 THEN @ol_qty8
        WHEN 9 THEN @ol_qty9
        WHEN 10 THEN @ol_qty10
        WHEN 11 THEN @ol_qty11
        WHEN 12 THEN @ol_qty12
        WHEN 13 THEN @ol_qty13
        WHEN 14 THEN @ol_qty14
        WHEN 15 THEN @ol_qty15
    END
-----
-- get item data (no one updates item)
-----
    SELECT @i_price = i_price,
           @i_name  = i_name,
           @i_data  = i_data
    FROM   item WITH (repeatableread)
    WHERE  i_id     = @li_id

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

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

```

```

                                @s_dist)
-----
-- send line-item data to client
-----
        SELECT  @i_name,
                @s_quantity,
                b_g = CASE WHEN ( (patindex('%ORIGINAL%',@i_data) >
0) AND
(patindex('%ORIGINAL%',@s_data) > 0) )
                                THEN 'B' ELSE 'G' END,
                @i_price,
                @i_price * @li_qty
        END
        ELSE
        BEGIN
-----
-- no item (or stock) found - triggers rollback condition
-----
        SELECT  '',0,'',0,0
        SELECT  @commit_flag = 0
        END
        END
-----
-- get customer last name, discount, and credit rating
-----
        SELECT  @c_last = c_last,
                @c_discount = c_discount,
                @c_credit = c_credit,
                @c_id_local = c_id
        FROM    customer WITH (RepeatableRead)
        WHERE   c_id = @c_id AND
                c_w_id = @w_id AND
                c_d_id = @d_id
-----
-- insert fresh row into orders table
-----
        INSERT INTO orders VALUES ( @o_id,
                                    @d_id,
                                    @w_id,
                                    @c_id_local,
                                    0,
                                    @o_ol_cnt,
                                    @o_all_local,
                                    @o_entry_d)
-----
-- insert corresponding row into new-order table
-----
        INSERT INTO new_order VALUES ( @o_id,
                                        @d_id,
                                        @w_id)
-----
-- select warehouse tax
-----
        SELECT  @w_tax = w_tax
        FROM    warehouse WITH (repeatableRead)
        WHERE   w_id = @w_id

        IF (@commit_flag = 1)
            COMMIT TRANSACTION n
        ELSE
-----

```

```

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

        SET QUOTED_IDENTIFIER OFF
        GO

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

-----
--
-- File:      TPCC NEWORDER NEW.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.63
-- Copyright Microsoft, 2005
--
-- This acid stored procedure implements the neworder
-- transaction. It outputs timestamps at the
-- beginning of the transaction, before the commit
-- delay, and after the commit.
-----
        SET QUOTED_IDENTIFIER OFF
        GO
        SET ANSI_NULLS OFF
        GO

        USE tpcc
        GO

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

        -- neworder_new v2.5 6/23/05 PeterCa
        -- lq stock/order_line/client. upd district & ins neworder.
        -- cust/warehouse select together, ins order separate
        -- uses rownumber to distinct w any transform
        -- uses in-memory sort for distinct on iid,wid
        -- uses charindex
        -- will rollback if (@i_idX,@s_w_idX pairs not unique) OR (@i_idX not
        unique).

```

```

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

AS
BEGIN
DECLARE @o_id      int,
        @d_tax     smallmoney,
        @o_entry_d datetime,
        @commit_flag tinyint

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

UPDATE district
SET    @d_tax      = d_tax,
        @o_id      = d_next_o_id,
        d_next_o_id = d_next_o_id + 1,
        @o_entry_d = GETDATE(),
        @commit_flag = 1

OUTPUT deleted.d_next_o_id,
        @d_id,
        @w_id

INTO new_order
WHERE d_w_id = @w_id AND
       d_id  = @d_id

-- update stock from stock join (item join (params))
-- output to orderline, output to client
-- NOTE: @@rowcount != @ol_o_cnt

```

```

-- if (@i_idX,@s_w_idX pairs not unique) OR (@i_idX not unique).

UPDATE stock
SET    s_ytd      = s_ytd + info.ol_qty,
        s_quantity = s_quantity - info.ol_qty +
        CASE WHEN (s_quantity - info.ol_qty < 10)

THEN 91 ELSE 0 END,
        s_order_cnt = s_order_cnt + 1,
        s_remote_cnt = s_remote_cnt +
        CASE WHEN (info.w_id = @w_id) THEN

0 ELSE 1 END

OUTPUT @o_id,
        @d_id,
        @w_id,
        info.lino,
        info.i_id,
        "dec 31, 1899",
        info.i_price * info.ol_qty,
        info.w_id,
        info.ol_qty,
        CASE @d_id WHEN 1 THEN inserted.s_dist_01
                   WHEN 2 THEN inserted.s_dist_02
                   WHEN 3 THEN inserted.s_dist_03
                   WHEN 4 THEN inserted.s_dist_04
                   WHEN 5 THEN inserted.s_dist_05
                   WHEN 6 THEN inserted.s_dist_06
                   WHEN 7 THEN inserted.s_dist_07
                   WHEN 8 THEN inserted.s_dist_08
                   WHEN 9 THEN inserted.s_dist_09
                   WHEN 10 THEN inserted.s_dist_10

END
INTO order_line

OUTPUT info.i_name,inserted.s_quantity,
        CASE WHEN ((charindex("ORIGINAL",info.i_data) > 0) AND
                   (charindex("ORIGINAL",inserted.s_data) > 0))
        THEN "B" ELSE "G" END,
        info.i_price,
        info.i_price*info.ol_qty

FROM stock INNER JOIN
      (SELECT iid,
             wid,
             lino,
             ol_qty,
             i_price,
             i_name,
             i_data
      FROM (SELECT iid,
                  wid,
                  lino,
                  qty,
                  row_number() OVER (PARTITION BY iid,wid

ORDER BY iid,wid)
      FROM (SELECT @i_id1,@s_w_id1,1,@ol_qty1 UNION
            SELECT @i_id2,@s_w_id2,2,@ol_qty2 UNION
            SELECT @i_id3,@s_w_id3,3,@ol_qty3 UNION
            SELECT @i_id4,@s_w_id4,4,@ol_qty4 UNION
            SELECT @i_id5,@s_w_id5,5,@ol_qty5 UNION
            SELECT @i_id6,@s_w_id6,6,@ol_qty6 UNION

```



```

ALL          SELECT @i_id7,@s_w_id7,7,@ol_qty7      UNION
ALL          SELECT @i_id8,@s_w_id8,8,@ol_qty8      UNION
ALL          SELECT @i_id9,@s_w_id9,9,@ol_qty9      UNION
ALL          SELECT @i_id10,@s_w_id10,10,@ol_qty10   UNION
ALL          SELECT @i_id11,@s_w_id11,11,@ol_qty11  UNION
ALL          SELECT @i_id12,@s_w_id12,12,@ol_qty12  UNION
ALL          SELECT @i_id13,@s_w_id13,13,@ol_qty13  UNION
ALL          SELECT @i_id14,@s_w_id14,14,@ol_qty14  UNION
ALL          SELECT @i_id15,@s_w_id15,15,@ol_qty15) AS
uol(iid,wid,lino,qty)
              ) AS ol(iid,wid,lino,ol_qty,rownum)
              INNER JOIN
filters out invalid items  item (repeatableread) ON i_id = iid AND --
                          rownum = 1
                          ) AS info(i_id,w_id,lino,ol_qty,i_price,i_name,i_data)
ON  s_i_id = info.i_id AND
   s_w_id = info.w_id

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

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

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

SELECT  w_tax,
        @d_tax,
        @o_id,
        c_last,
        c_discount,
        c_credit,
        @o_entry_d,
        @commit_flag
FROM    warehouse(repeatableread),
        customer(repeatableread)
WHERE   w_id = @w_id AND
        c_id = @c_id AND
        c_w_id = @w_id AND
        c_d_id = @d_id

-- @@rowcount checks that previous select found a valid customer
IF ((@commit_flag = 1) AND (@@rowcount = 1))
   COMMIT TRANSACTION n
ELSE -- all that work for nothing.
   ROLLBACK TRANSACTION n

END

```

```

GO

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

SET ANSI_NULLS ON
GO

USE tpcc
GO

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

CREATE PROCEDURE tpcc_orderstatus
   @w_id int,
   @d_id tinyint,
   @c_id int,
   @c_last char(16) = ''

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

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

         SET rowcount @cnt

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

```

```

ORDER      c_d_id      = @d_id
          BY c_w_id, c_d_id, c_last, c_first

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

SELECT  @cnt= @@rowcount
END

-----
-- if no such customer
-----
IF (@cnt = 0)
BEGIN
RAISERROR('Customer not found',18,1)
GOTO custnotfound
END

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

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

custnotfound:
COMMIT TRANSACTION o

-----
-- return data to client
-----
SELECT  @c_id,
        @c_last,
        @c_first,

```

```

        @c_middle,
        @o_entry_d,
        @o_carrier_id,
        @c_balance,
        @o_id
GO

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

SET ANSI_NULLS ON
GO

USE tpcc
GO

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

CREATE PROCEDURE      tpcc_payment
                    @w_id      int,
                    @c_w_id    int,
                    @h_amount  smallmoney,
                    @d_id      tinyint,
                    @c_d_id    tinyint,
                    @c_id      int,
                    @c_last    char(16) = ""
AS
DECLARE @w_street_1 char(20),
        @w_street_2 char(20),
        @w_city     char(20),
        @w_state    char(2),
        @w_zip      char(9),
        @w_name     char(10),
        @d_street_1 char(20),
        @d_street_2 char(20),
        @d_city     char(20),
        @d_state    char(2),
        @d_zip      char(9),
        @d_name     char(10),
        @c_first    char(16),
        @c_middle   char(2),
        @c_street_1 char(20),
        @c_street_2 char(20),
        @c_city     char(20),
        @c_state    char(2),
        @c_zip      char(9),
        @c_phone    char(16),
        @c_since    datetime,
        @c_credit   char(2),

```

```

@c_credit_lim    money,
@c_balance       money,
@c_discount      smallmoney,
@c_data          char(42),
@datetime       datetime,
@w_ytd           money,
@d_ytd           money,
@cnt             smallint,
@val             smallint,
@screen_data    char(200),
@d_id_local     tinyint,
@w_id_local     int,
@c_id_local     int

SELECT @screen_data = ""

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

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

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

SET rowcount @val

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

ORDER BY c_last, c_first

SET rowcount 0
END

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

```

```

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

-- update customer info
UPDATE customer
SET c_data = @c_data + substring(c_data, 1, 458),
    @screen_data = @c_data + substring(c_data, 1, 158)
WHERE c_id = @c_id AND
      c_w_id = @c_w_id AND
      c_d_id = @c_d_id
END

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

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

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

COMMIT TRANSACTION p

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

```

```

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

GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

```

STOCKLEV.SQL

```

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

SET ANSI_NULLS ON
GO

USE tpcc
GO

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

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

AS
DECLARE @o_id_low int,
        @o_id_high int

```

```

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

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

      s_w_id = ol_w_id AND
      s_i_id = ol_i_id AND
      s_quantity < @threshold

OPTION (ORDER GROUP)
GO

SET QUOTED_IDENTIFIER OFF
GO

SET ANSI_NULLS ON
GO

```

VERSION.SQL

```

-----
-- File: VERSION.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.62
-- Copyright Microsoft, 2005
--
-- Returns version level of TPC-C stored procs
--
-- Always update the return value of this proc for
-- any interface changes or 'must have' bug fixes.
--
-- The value returned by this SP defines the
-- 'interface level', which must match between the
-- stored procs and the client code. The
-- interface level may be down rev from the
-- current kit. This indicates that the interface
-- hasn't changed since that version.
--
-- Interface Level: 4.20.000
-----
USE tpcc
GO

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

CREATE PROCEDURE tpcc_version
AS
DECLARE @version char(8)

BEGIN
SELECT @version = '4.20.000'

```

```

SELECT @version AS 'Version'
END
GO

```

Loader Source

GETARGS.C

```

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

```

```

// Includes
#include "tpcc.h"

```

```

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

```

```

void GetArgsLoader(int argc, char **argv, 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 = DEF_LDPACKSIZE;
    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 through */
            GetArgsLoaderUsage();
            break;

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

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

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

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

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

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

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

        case 't':
            {
                pargs->tables_all = FALSE;
                if (strcmp(ptr+2,"item") == 0)
                    pargs->table_item = TRUE;
                else if (strcmp(ptr+2,"warehouse")
== 0)
                    pargs->table_warehouse =
TRUE;
                else if (strcmp(ptr+2,"customer")
== 0)
                    pargs->table_customer =
TRUE;
                else if (strcmp(ptr+2,"orders") ==
0)
                    pargs->table_orders = TRUE;
                else
                {
                    printf("\nUnrecognized command");
                    GetArgsLoaderUsage();
                    exit(1);
                }
            }

```

```

        break;
    }
    case 'f':
        pargs->loader_res_file = ptr+2;
        break;
    case 'L':
        pargs->log_path = ptr+2;
        break;
    case 'p':
        pargs->pack_size = atol(ptr+2);
        break;
    case 'i':
        pargs->build_index = atol(ptr+2);
        break;
    case 'o':
        pargs->index_order = atol(ptr+2);
        break;
    case 'c':
        pargs->scale_down = atol(ptr+2);
        break;
    case 'd':
        pargs->index_script_path = ptr+2;
        break;
    default:
        GetArgsLoaderUsage();
        exit(-1);
        break;
}
}
/* check for required args */
if (pargs->num_warehouses == UNDEF )
{
    printf("Number of Warehouses is required\n");
    exit(-2);
}
return;
}

```

```

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

```

```

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

    printf("TPCCLDR:\n\n");
}

```

```

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

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

```

RANDOM.C

```

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

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

```

```

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

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

/
*****
****
* random -
* Implements a GOOD pseudo random number generator. This generator
* will/should? run the complete period before repeating.
*
* Copied from:
* Random Numbers Generators: Good Ones Are Hard to Find.
* Communications of the ACM - October 1988 Volume 31 Number 10
*
* Machine Dependencies:
* long must be 2 ^ 31 - 1 or greater.
*
*****
****
/
*****
****
* seed - load the Seed value used in irand and drand. Should be used
before * first call to irand or drand.
*
*****
****
/

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

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

Seed = val;
}

/
*****
****
* irand - returns a 32 bit integer pseudo random number with a period of

```

```

*
* 1 to 2 ^ 32 - 1.
*
* parameters:
* none.
*
* returns:
* 32 bit integer - defined as long ( see above ).
*
* side effects:
* seed get recomputed.
*****
****/

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

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

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

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

return( Seed );
}

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

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

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

//=====
// Function : RandomNumber
//
// Description:

```

```

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

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

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

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

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

    return rand_num;
}

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

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

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

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

    return rand_num;
}
#endif

```

```

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

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

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

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

    return rand_num;
}

STRINGS.C

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

// Includes
#include "tpcc.h"
#include <string.h>
#include <ctype.h>

//=====
// Function name: MakeAddress
//=====
void MakeAddress(char *street_1,
                char *street_2,
                char *city,
                char *state,
                char *zip)
{
#ifdef DEBUG
    printf("[%ld]DBG: Entering MakeAddress()\n", (int)
GetCurrentThreadId());
#endif

    MakeAlphaString (10, 20, ADDRESS_LEN, street_1);
    MakeAlphaString (10, 20, ADDRESS_LEN, street_2);
    MakeAlphaString (10, 20, ADDRESS_LEN, city);
    MakeAlphaString ( 2,  2, STATE_LEN, state);

```



```

    MakeZipNumberString( 9, 9, ZIP_LEN, zip);
#ifdef DEBUG
    printf("[%ld]DBG: MakeAddress: street_1: %s, street_2: %s, city: %s,
state: %s, zip: %s\n",
        (int) GetCurrentThreadId(), street_1, street_2,
city, state, zip);
#endif
    return;
}

//=====
// Function name: LastName
//=====
void LastName(int num,
             char *name)
{
    static char *n[] =
    {
        "BAR" , "OUGHT" , "ABLE" , "PRI" , "PRES" ,
        "ESE" , "ANTI" , "CALLY" , "ATION" , "EING"
    };
#ifdef DEBUG
    printf("[%ld]DBG: Entering LastName()\n", (int)
GetCurrentThreadId());
#endif
    if ((num >= 0) && (num < 1000))
    {
        strcpy(name, n[(num/100)%10]);
        strcat(name, n[(num/10)%10]);
        strcat(name, n[(num/1)%10]);

        if (strlen(name) < LAST_NAME_LEN)
        {
            PaddString(LAST_NAME_LEN, name);
        }
    }
    else
    {
        printf("\nError in LastName()... num < %ld> out of range
(0,999)\n", num);
        exit(-1);
    }

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

```

```

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

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

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

    len= RandomNumber(x, y);

    for (i=0; i<len; i++)
        str[i] = chArray[RandomNumber(0, chArrayMax)];
    str[len] = 0;

    return len;
}

int MakeAlphaStringPadded( int minLen, int maxLen, int padLen, char
*str)
{
    int len;
    int i;
    char cc = 'a';
    static char chArray[] =
"0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
    static int chArrayMax = 61;

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

    len= RandomNumber(minLen, maxLen);

    for (i=0; i<len; i++)

```

```

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

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

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

    // verify percentage is valid
    if ((percent < 0) || (percent > 100))
    {
        printf("MakeOriginalAlphaString: Invalid percentage:
%d\n", percent);
        exit(-1);
    }

    // verify string is at least 8 chars in length
    if (x < 8)
    {
        printf("MakeOriginalAlphaString: string length must be >=
8\n");
        exit(-1);
    }

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

    val = RandomNumber(1,100);
    if (val <= percent)
    {
        start = RandomNumber(0, len - 8);
        strncpy(str + start, "ORIGINAL", 8);
    }

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

    return len;
}

```

```

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

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

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

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

    str[16] = 0;

    return 16;
}

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

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

    strcpy(str, "000011111");

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

    return 9;
}

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

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

//=====
//
// Function name: InitAddress
//

```

```

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

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

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

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

```

```

//=====
// Function name: PaddString
//=====

```

```

void PaddString(int max, char *name)
{
    int len;

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

    return;
}

```

TIME.C

```

// File: TIME.C Microsoft TPC-C Kit Ver. 4.62
// Copyright Microsoft, 1996, 1997, 1998,
// 1999, 2000, 2001, 2002, 2005
// Purpose:Source file for time functions

```

```

// Includes
#include "tpcc.h"

```

```

// Globals
static long start_sec;

```

```

//=====
// Function name: TimeNow
//=====

```

```

long TimeNow()
{

```

```

    long time_now;
    struct_timeb el_time;

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

    _ftime(&el_time);

    time_now = ((el_time.time - start_sec) * 1000) + el_time.millitm;

    return time_now;
}

```

TPCC.H

```

// File: TPCC.H Microsoft TPC-C Kit Ver. 4.51
// Copyright Microsoft, 1996, 1997, 1998,
// 1999, 2000, 2001, 2002, 2003, 2005
// Purpose:Header file for TPC-C database loader

```

```

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

```

```

// General headers
#include <windows.h>
#include <winbase.h>
#include <stdlib.h>
#include <stdio.h>
#include <process.h>
#include <stddef.h>
#include <stdarg.h>
#include <string.h>
#include <time.h>
#include <sys\timeb.h>
#include <sys\types.h>
#include <math.h>

```

```

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

```

```

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

```

```

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

```

```

// Default loader arguments
#define BATCH 10000
#define DEFILDPACKSIZE 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_WAREHOUSE1
#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 batchSize;
    long verbose;
    long pack_size;
    char *loader_res_file;
    char *log_path;
    char *synch_servername;
    long case_sensitivity;
    long starting_warehouse;
    long build_index;
    long index_order;
    long scale_down;
    char *index_script_path;
} TPCCLDR_ARGS;

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

```

```

#define OL_DIST_INFO_LEN 24
#define C_SINCE_LEN 23
#define H_DATE_LEN 23
#define OL_DELIVERY_D_LEN 23
#define O_ENTRY_D_LEN 23

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

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

// Functions in time.c
long TimeNow();

// Functions in strings.c
void MakeAddress();
void LastName();
int MakeAlphaString();
int MakeAlphaStringPadded();
int MakeOriginalAlphaString();
int MakeNumberString();
int MakeZipNumberString();
void InitString();
void InitAddress();
void PaddString();

```

TPCCLDR.C

```

//-----
// File: TPCCLDR.C
// Microsoft TPC-C Kit Ver. 4.51
// Copyright Microsoft, 1996, 1997, 1998,
1999,
// 2000, 2001, 2002, 2003
// Purpose:Source file for TPC-C database loader
//-----
// Includes
#include "tpcc.h"
#include "search.h"

// Defines
#define MAXITEMS 100000
#define MAXITEMS_SCALE_DOWN100
#define CUSTOMERS_PER_DISTRICT 3000
#define CUSTOMERS_SCALE_DOWN30
#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_STRUCTorders buf[ORDERS_PER_DISTRICT];
CUSTOMER_STRUCTcustomer_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;

TPCCCLDR_ARGS        *aptr, args;

//=====

```

```

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

    for (i=0; i<MAX MAIN THREADS; i++)
        hThread[i] = NULL;

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

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

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

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

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

    // open connections to SQL Server
    OpenConnections();

```

```

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

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

// start loading data
sprintf(buffer, "TPC-C load started for %ld warehouses.\n", aptr-
>num_warehouses);
if (aptr->scale_down == 1)
{
    sprintf(buffer, "SCALED DOWN DATABASE.\n");
}
printf("%s", buffer);
fprintf(fLoader, "%s", buffer);

main_time_start = (TimeNow() / MILLI);

// start parallel load threads
if (aptr->tables_all || aptr->table_item)
{
    fprintf(fLoader, "\nStarting loader threads for: item\n");
    hThread[0] = CreateThread(NULL,
                                0,
                                (LPTHREAD_START_ROUTINE) LoadItem,
                                NULL,
                                0,
                                &dwThreadID[0]);
    if (hThread[0] == NULL)
    {
        printf("Error, failed in creating creating thread =
0.\n");
        exit(-1);
    }

    if (aptr->tables_all || aptr->table_warehouse)
    {
        fprintf(fLoader, "Starting loader threads for:
warehouse\n");
        hThread[1] = CreateThread(NULL,
                                0,
                                (LPTHREAD_START_ROUTINE) LoadWarehouse,
                                NULL,
                                0,
                                &dwThreadID[1]);
        if (hThread[1] == NULL)
        {
            printf("Error, failed in creating creating thread =
1.\n");
            exit(-1);
        }
    }
}

```

```

    }
    if (aptr->tables_all || aptr->table_customer)
    {
        fprintf(fLoader, "Starting loader threads for:
customer\n");
        hThread[2] = CreateThread(NULL,
                                0,
(LPTHREAD_START_ROUTINE) LoadCustomer,
                                NULL,
                                0,
&dwThreadID[2]);
        if (hThread[2] == NULL)
        {
            printf("Error, failed in creating creating main
thread = 2.\n");
            exit(-1);
        }
    }
    if (aptr->tables_all || aptr->table_orders)
    {
        fprintf(fLoader, "Starting loader threads for: orders\n");
        hThread[3] = CreateThread(NULL,
                                0,
(LPTHREAD_START_ROUTINE) LoadOrders,
                                NULL,
                                0,
&dwThreadID[3]);
        if (hThread[3] == NULL)
        {
            printf("Error, failed in creating creating main
thread = 3.\n");
            exit(-1);
        }
    }
    // Wait for threads to finish...
    for (i=0; i<MAX_MAIN_THREADS; i++)
    {
        if (hThread[i] != NULL)
        {
            WaitForSingleObject( hThread[i], INFINITE );
            CloseHandle(hThread[i]);
            hThread[i] = NULL;
        }
    }
    main_time_end = (TimeNow() / MILLI);
    sprintf(buffer, "\nTPC-C load completed successfully in %ld
minutes.\n",
            (main_time_end - main_time_start)/60);
    printf("%s", buffer);
    fprintf(fLoader, "%s", buffer);
    fclose(fLoader);

```

```

        SQLFreeEnv(henv);
        exit(0);
        return 0;
    }
    //=====
    // Function name: LoadItem
    //=====
    void LoadItem()
    {
        int            i;
        long           i_id;
        long           i_im_id;
        char           i_name[I_NAME_LEN+1];
        double         i_price;
        char           i_data[I_DATA_LEN+1];
        char           name[20];
        long           time_start;
        RETCODE        rc;
        DBINT          rcint;
        char           bcphint[128];
        char           err_log_path[256];

        // Seed with unique number
        seed(11);

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

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

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

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

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

        if ((aptr->build_index == 1) && (aptr->index_order == 1))
        {
            sprintf(bcphint, "tablock, order (i_id), ROWS_PER_BATCH =
100000");
            rc = bcp_control(i_hdbc1, BCPHINTS, (void*) bcphint);
            if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);
        }

        i = 0;
        rc = bcp_bind(i_hdbc1, (BYTE *) &i_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
        if (rc != SUCCEED)
            HandleErrorDBC(i_hdbc1);
        rc = bcp_bind(i_hdbc1, (BYTE *) i_name, 0, I_NAME_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)

```

```

        HandleErrorDBC(i_hdbc1);
        rc = bcp_bind(i_hdbc1, (BYTE *) &i_price, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, ++i);
        if (rc != SUCCEED)
            HandleErrorDBC(i_hdbc1);
        rc = bcp_bind(i_hdbc1, (BYTE *) i_data, 0, SQL_VARLEN_DATA, "", 1,
0, ++i);
        if (rc != SUCCEED)
            HandleErrorDBC(i_hdbc1);
        rc = bcp_bind(i_hdbc1, (BYTE *) &i_im_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT4, ++i);
        if (rc != SUCCEED)
            HandleErrorDBC(i_hdbc1);

        time_start = (TimeNow() / MILLI);
        item_rows_loaded = 0;
        for (i_id = 1; i_id <= max_items; i_id++)
        {
            i_im_id = RandomNumber(1L, 10000L);
            MakeAlphaStringPadded(14, 24, I_NAME_LEN, i_name);
            i_price = ((float) RandomNumber(100L, 10000L))/100.0;
            MakeOriginalAlphaString(26, 50, I_DATA_LEN, i_data, 10);
            rc = bcp_sendrow(i_hdbc1);
            if (rc != SUCCEED)
                HandleErrorDBC(i_hdbc1);

            item_rows_loaded++;
            CheckForCommit(i_hdbc1, i_hstmt1, item_rows_loaded,
"item", &time_start);
        }

        rcint = bcp_done(i_hdbc1);
        if (rcint < 0)
            HandleErrorDBC(i_hdbc1);

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

        SQLFreeStmt(i_hstmt1, SQL_DROP);
        SQLDisconnect(i_hdbc1);
        SQLFreeConnect(i_hdbc1);

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

//
=====
//
// Function : LoadWarehouse
//
// Loads WAREHOUSE table and loads Stock and District as Warehouses are
// created
//
//
=====
void LoadWarehouse()

```

```

    {
        int i;
        long w_id;
        charw_name[W_NAME_LEN+1];
        charw_street_1[ADDRESS_LEN+1];
        charw_street_2[ADDRESS_LEN+1];
        charw_city[ADDRESS_LEN+1];
        charw_state[STATE_LEN+1];
        charw_zip[ZIP_LEN+1];
        doublew_tax;
        doublew_ytd;
        char name[20];
        long time_start;
        RETCODE rc;
        DBINT rcint;
        char bcphint[128];
        char err_log_path[256];

        // Seed with unique number
        seed(2);

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

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

        InitString(w_name, W_NAME_LEN+1);
        InitAddress(w_street_1, w_street_2, w_city, w_state, w_zip);
        sprintf(name, "%s..%s", aptr->database, "warehouse");

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

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

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

        i = 0;
        rc = bcp_bind(w_hdbc1, (BYTE *) &w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &w_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) &w_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_name, 0, W_NAME_LEN, NULL, 0, 0,
++i);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);
        rc = bcp_bind(w_hdbc1, (BYTE *) w_street_1, 0, ADDRESS_LEN, NULL,

```



```

0, 0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_street_2, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_city, 0, ADDRESS_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_state, 0, STATE_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) w_zip, 0, ZIP_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    time_start = (TimeNow() / MILLI);
    warehouse_rows_loaded = 0;

    for (w_id = (long)aptr->starting_warehouse; w_id <= aptr-
>num_warehouses; w_id++)
    {
        MakeAlphaStringPadded(6,10, W_NAME_LEN, w_name);
        MakeAddress(w_street_1, w_street_2, w_city, w_state,
w_zip);

        w_tax = ((float) RandomNumber(0L,2000L))/10000.00;
        w_ytd = 300000.00;

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

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

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

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

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

    stock_rows_loaded = 0;
    district_rows_loaded = 0;

    District();
    Stock();
}

//=====
// Function : District
//

```

```

//=====
void District()
{
    int i;
    short d_id;
    long d_w_id;
    char name[D_NAME_LEN+1];
    char street_1[ADDRESS_LEN+1];
    char street_2[ADDRESS_LEN+1];
    char city[ADDRESS_LEN+1];
    char state[STATE_LEN+1];
    char zip[ZIP_LEN+1];
    doubled tax;
    doubled ytd;
    char name[20];
    longd next_o_id;
    long time_start;
    long w_id;
    RETCODE rc;
    DBINT rcint;
    char bcphint[128];
    char err_log_path[256];

    // Seed with unique number
    seed(4);

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

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

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

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

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

    i = 0;
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_next_o_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT4, ++i);
}

```

```

    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &d_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_name, 0, D_NAME_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_street_1, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_street_2, 0, ADDRESS_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_city, 0, ADDRESS_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_state, 0, STATE_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) d_zip, 0, ZIP_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    d_ytd = 30000.0;
    d_next_o_id = orders_per_district+1;
    time_start = (TimeNow() / MILLI);

    for (w_id = aptr->starting_warehouse; w_id <= aptr-
>num_warehouses; w_id++)
    {
        d_w_id = w_id;
        for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
        {
            MakeAlphaStringPadded(6,10,D_NAME_LEN, d_name);
            MakeAddress(d_street_1, d_street_2, d_city,
d_state, d_zip);

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

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

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

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

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

```

```

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

return;
}

//=====
// Function : Stock
//=====
void Stock()
{
    int i;
    long s_i_id;
    long s_w_id;
    shorts quantity;
    chars dist_01[S_DIST_LEN+1];
    chars dist_02[S_DIST_LEN+1];
    chars dist_03[S_DIST_LEN+1];
    chars dist_04[S_DIST_LEN+1];
    chars dist_05[S_DIST_LEN+1];
    chars dist_06[S_DIST_LEN+1];
    chars dist_07[S_DIST_LEN+1];
    chars dist_08[S_DIST_LEN+1];
    chars dist_09[S_DIST_LEN+1];
    chars dist_10[S_DIST_LEN+1];
    longs ytd;
    shorts order_cnt;
    shorts remote_cnt;
    chars data[S_DATA_LEN+1];
    short len;
    char name[20];
    long time_start;
    RETCODE rc;
    DBINT rcint;
    char bcphint[128];
    char err_log_path[256];

    // Seed with unique number
    seed(3);

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

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

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

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcphint, "tablock, order (s_i_id, s_w_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 100000));
        rc = bcp_control(w_hdbc1, BCPHINTS, (void*) bcphint);
        if (rc != SUCCEED)
            HandleErrorDBC(w_hdbc1);
    }

    i = 0;

```

```

    rc = bcp_bind(w_hdbc1, (BYTE *) &s_i_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_quantity, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_order_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) &s_remote_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_data, 0, SQL_VARLEN_DATA, "", 1,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_01, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_02, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_03, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_04, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_05, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_06, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_07, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_08, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_09, 0, S_DIST_LEN, NULL, 0,
0, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_10, 0, S_DIST_LEN, NULL, 0,
0, ++i);

```

```

    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);
    s_ytd = s_order_cnt = s_remote_cnt = 0;
    time_start = (TimeNow() / MILLI);
    printf("...Loading stock table\n");
    for (s_i_id=1; s_i_id <= max_items; s_i_id++)
    {
        for (s_w_id = (long)aptr->starting_warehouse; s_w_id <=
aptr->num_warehouses; s_w_id++)
        {
            s_quantity = (short)RandomNumber(10L,100L);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_01);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_02);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_03);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_04);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_05);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_06);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_07);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_08);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_09);
            len = MakeAlphaString(24,24,S_DIST_LEN,
s_dist_10);

            len = MakeOriginalAlphaString(26,50, S_DATA_LEN,
s_data,10);

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

            stock_rows_loaded++;
            CheckForCommit_Big(w_hdbc1, w_hstmt1,
stock_rows_loaded, "stock", &time_start);
        }
    }
    rcint = bcp_done(w_hdbc1);
    if (rcint < 0)
        HandleErrorDBC(w_hdbc1);
    printf("Finished loading stock table.\n");
    SQLFreeStmt(w_hstmt1, SQL_DROP);
    SQLDisconnect(w_hdbc1);
    SQLFreeConnect(w_hdbc1);

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

    return;

```

```

}
//=====
// Function : LoadCustomer
//=====
void LoadCustomer()
{
    LOADER_TIME_STRUCT customer_time_start;
    LOADER_TIME_STRUCT history_time_start;
    long w_id;
    short d_id;
    DWORD dwThreadID[MAX_CUSTOMER_THREADS];
    HANDLE hThread[MAX_CUSTOMER_THREADS];
    char name[20];
    RETCODE rc;
    DBINT rcint;
    char bcphint[128];
    char cmd[256];
    int num_procs;
    char err_log_path_cust[256];
    char err_log_path_hist[256];

    // Seed with unique number
    seed(5);

    printf("Loading customer and history tables...\n");

    // if build index before load...
    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        BuildIndex("idxcuscl");
        // check the number of processors on this system
        // if 8 or more processors, then build index on History.
        // if less than 8 processors, do not build the index
        num_procs = atoi(getenv( "NUMBER_OF_PROCESSORS" ));
        if ( num_procs >= 8 )
            BuildIndex("idxhiscl");
    }

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

    strcpy(err_log_path_cust, aptr->log_path);
    strcat(err_log_path_cust, "customer.err");
    rc = bcp_init(c_hdbc1, name, NULL, err_log_path_cust, DB_IN);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcphint, "tablock, order (c w_id, c_d_id, c_id),
ROWS_PER_BATCH = %u", (aptr->num_warehouses * 30000));
        rc = bcp_control(c_hdbc1, BCPHINTS, (void*) bcphint);
        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);
    }

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

    rc = bcp_init(c_hdbc2, name, NULL, "logs\\history.err", DB_IN);
    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 != SUCCEEDED)

```

```

        HandleErrorDBC(c_hdbc2);

    sprintf(bcphint, "tablock");
    rc = bcp_control(c_hdbc2, BCPHINTS, (void*) bcphint);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    customer_rows_loaded = 0;
    history_rows_loaded = 0;

    CustomerBufInit();

    customer_time_start.time_start = (TimeNow() / MILLI);
    history_time_start.time_start = (TimeNow() / MILLI);

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

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

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

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

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

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

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

```

```

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

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

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

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

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

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

    // if build index after load...
    if ((aptr->build_index == 1) && (aptr->index_order == 0))
    {
        BuildIndex("idxcuscl");
        // check the number of processors on this system
        // if 8 or more processors, then build index on History.
        // if less than 8 processors, do not build the index
        num_procs = atoi(getenv( "NUMBER_OF_PROCESSORS" ));
        if (num_procs >= 8)
            BuildIndex("idxhiscl");
    }

    // build non-clustered index
    if (aptr->build_index == 1)
        BuildIndex("idxcusnc");

    // Output the NURAND used for the loader into C_FIRST for C_ID =
1,
    // C_W_ID = 1, and C_D_ID = 1
    sprintf(cmd, "osql -S%s -U%s -P%s -d%s -e -Q \"update customer set
c first = 'C LOAD = %d' where c_id = 1 and c_w_id = 1 and c_d_id = 1\" >
%snurand_load.log",
        aptr->server,
        aptr->user,
        aptr->password,
        aptr->database,
        LOADER_NURAND_C,
        aptr->log_path);

    system(cmd);

    SQLFreeStmt(c_hstmt1, SQL_DROP);
    SQLDisconnect(c_hdbc1);
    SQLFreeConnect(c_hdbc1);

    SQLFreeStmt(c_hstmt2, SQL_DROP);
    SQLDisconnect(c_hdbc2);
    SQLFreeConnect(c_hdbc2);

```

```

    }
    return;
}
//=====
// Function : CustomerBufInit
//=====
void CustomerBufInit()
{
    long i;
    for (i=0;i<customers_per_district;i++)
    {
        customer_buf[i].c_id = 0;
        customer_buf[i].c_d_id = 0;
        customer_buf[i].c_w_id = 0;

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

        customer_buf[i].c_credit_lim = 0;
        customer_buf[i].c_discount = (float) 0;

        strcpy(customer_buf[i].c_balance,"");

        customer_buf[i].c_ytd_payment = 0;
        customer_buf[i].c_payment_cnt = 0;
        customer_buf[i].c_delivery_cnt = 0;

        strcpy(customer_buf[i].c_data,"");

        customer_buf[i].h_amount = 0;

        strcpy(customer_buf[i].h_data,"");
    }
}
//=====
// Function : CustomerBufLoad
//=====
// Fills shared buffer for HISTORY and CUSTOMER
//=====
void CustomerBufLoad(int d_id, long w_id)
{
    long i;
    CUSTOMER_SORT_STRUCT c[CUSTOMERS_PER_DISTRICT];

    for (i=0;i<customers_per_district;i++)
    {
        if (i < 1000)
            LastName(i, c[i].c_last);
        else
            LastName(NURand(255,0,999,LOADER_NURAND_C),
c[i].c_last);

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

```

```

        c[i].c_id = i+1;
    }
    printf("...Loading customer buffer for: d_id = %d, w_id = %d\n",
           d_id, w_id);
    for (i=0;i<customers_per_district;i++)
    {
        customer_buf[i].c_d_id = d_id;
        customer_buf[i].c_w_id = w_id;
        customer_buf[i].h_amount = 10.0;
        customer_buf[i].c_ytd_payment = 10.0;
        customer_buf[i].c_payment_cnt = 1;
        customer_buf[i].c_delivery_cnt = 0;
        customer_buf[i].c_id = c[i].c_id;
        strcpy(customer_buf[i].c_first, c[i].c_first);
        strcpy(customer_buf[i].c_last, c[i].c_last);
        customer_buf[i].c_middle[0] = 'O';
        customer_buf[i].c_middle[1] = 'E';
        MakeAddress(customer_buf[i].c_street_1,
                   customer_buf[i].c_street_2,
                   customer_buf[i].c_city,
                   customer_buf[i].c_state,
                   customer_buf[i].c_zip);
        MakeNumberString(16, 16, PHONE_LEN,
                        customer_buf[i].c_phone);
        if (RandomNumber(1L, 100L) > 10)
            customer_buf[i].c_credit[0] = 'G';
        else
            customer_buf[i].c_credit[0] = 'B';
        customer_buf[i].c_credit[1] = 'C';
        customer_buf[i].c_credit_lim = 50000.0;
        customer_buf[i].c_discount = ((float) RandomNumber(0L,
        5000L)) / 10000.0;
        strcpy(customer_buf[i].c_balance, "-10.0");
        MakeAlphaStringPadded(300, 500, C_DATA_LEN,
        customer_buf[i].c_data);
        // Generate HISTORY data
        MakeAlphaStringPadded(12, 24, H_DATA_LEN,
        customer_buf[i].h_data);
    }
}
//=====
//
// Function : LoadCustomerTable
//
//=====
void LoadCustomerTable(LOADER_TIME_STRUCT *customer_time_start)
{
    long i;
    long c_id;
    short c_d_id;
    long c_w_id;
    char c_first[FIRST_NAME_LEN+1];
    char c_middle[MIDDLE_NAME_LEN+1];
    char c_last[LAST_NAME_LEN+1];
    char c_street_1[ADDRESS_LEN+1];
    char c_street_2[ADDRESS_LEN+1];
    char c_city[ADDRESS_LEN+1];
    char c_state[STATE_LEN+1];
    char c_zip[ZIP_LEN+1];
    char c_phone[PHONE_LEN+1];
    char c_credit[CREDIT_LEN+1];
}

```

```

double c_credit_lim;
double c_discount;
char c_balance[6];
double c_ytd_payment;
short c_payment_cnt;
short c_delivery_cnt;
char c_data[C_DATA_LEN+1];
char c_since[C_SINCE_LEN+1];
char RETCODE rc;

i = 0;
rc = bcp_bind(c_hdbc1, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_discount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_credit_lim, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_last, 0, LAST_NAME_LEN, NULL, 0, 0,
++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_first, 0, FIRST_NAME_LEN, NULL,
0, 0, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_credit, 0, CREDIT_LEN, NULL, 0, 0,
++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_balance, 0, 5, NULL, 0,
SQLCHARACTER, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_ytd_payment, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_payment_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) &c_delivery_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0, ADDRESS_LEN, NULL, 0,
0, ++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0, ADDRESS_LEN, NULL, 0, 0,
++i);
if (rc != SUCCEEDED)
    HandleErrorDBC(c_hdbc1);
}

```

```

        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_city, 0, ADDRESS_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_state, 0, STATE_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_zip, 0, ZIP_LEN, NULL, 0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_phone, 0, PHONE_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) &c_since, 0, C_SINCE_LEN, NULL, 0,
SQLCHARACTER, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0, MIDDLE_NAME_LEN, NULL,
0, 0, ++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_data, 0, C_DATA_LEN, NULL, 0, 0,
++i);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

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

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

        FormatDate(&c_since);

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

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

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

```

```

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

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

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

        FormatDate(&h_date);

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

        history_rows_loaded++;
    }
}

```

```

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

    // seed with unique number
    seed(6);

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

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

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

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

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcp_hint, "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*) bcp_hint);
        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc1);
    }

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

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

```

```

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

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

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

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

    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        sprintf(bcp_hint, "tablock, order (ol_w_id, ol_d_id,
ol_o_id, ol_number), ROWS_PER_BATCH = %u", (aptr->num_warehouses *
30000));
        rc = bcp_control(o_hdbc3, BCPHINTS, (void*) bcp_hint);
        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc3);
    }

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

    OrdersBufInit();

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

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

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

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

            if (hThread[0] == NULL)
            {

```



```

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

```

```

thread handle with errno: %d\n", GetLastError());
}
}
}
printf("Finished loading orders.\n");
return;
}
//=====
// Function : OrdersBufInit
// Clears shared buffer for ORDERS, NEWORDER, and ORDERLINE
//=====
void OrdersBufInit()
{
    int i;
    int j;
    for (i=0;i<orders_per_district;i++)
    {
        orders_buf[i].o_id = 0;
        orders_buf[i].o_d_id = 0;
        orders_buf[i].o_w_id = 0;
        orders_buf[i].o_c_id = 0;
        orders_buf[i].o_carrier_id = 0;
        orders_buf[i].o_ol_cnt = 0;
        orders_buf[i].o_all_local = 0;
        for (j=0;j<=14;j++)
        {
            orders_buf[i].o_ol[j].ol = 0;
            orders_buf[i].o_ol[j].ol_i_id = 0;
            orders_buf[i].o_ol[j].ol_supply_w_id = 0;
            orders_buf[i].o_ol[j].ol_quantity = 0;
            orders_buf[i].o_ol[j].ol_amount = 0;
            strcpy(orders_buf[i].o_ol[j].ol_dist_info,"");
        }
    }
}
//=====
// Function : OrdersBufLoad
// Fills shared buffer for ORDERS, NEWORDER, and ORDERLINE
//=====
void OrdersBufLoad(short d_id, long w_id)
{
    int cust[ORDERS_PER_DISTRICT+1];
    long o_id;
    long oI;
    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
i = 0;
rc = bcp_bind(o_hdbc1, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_carrier_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_ol_cnt, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_all_local, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc1);
rc = bcp_bind(o_hdbc1, (BYTE *) &o_entry_d, 0, O_ENTRY_D_LEN,
NULL, 0, SQLCHARACTER, ++i);
if (rc != SUCCEED)
    HandleErrorDBC(o_hdbc1);

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

    FormatDate(&o_entry_d);

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

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

if ((o_w_id == aprt->num_warehouses) && (o_d_id == 10))
{
    rcint = bcp_done(o_hdbc1);
    if (rcint < 0)
        HandleErrorDBC(o_hdbc1);
}

```

```

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

// if build index after load...
if ((aptr->build_index == 1) && (aptr->index_order == 0))
    BuildIndex("idxordc1");

// build non-clustered index
if (aptr->build_index == 1)
    BuildIndex("idxordnc");
}

//=====
// Function : LoadNewOrderTable
//=====
void LoadNewOrderTable(LOADER_TIME_STRUCT *new_order_time_start)
{
    long o_id; i;
    short o_d_id;
    long o_w_id;
    RETCODE rc;
    DBINT rcint;

    // Bind NEW-ORDER data
    i = 0;
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc2);
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc2);
    rc = bcp_bind(o_hdbc2, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc2);

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

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

        new_order_rows_loaded++;
        CheckForCommit_Big(o_hdbc2, o_hstmt2,
new_order_rows_loaded, "new_order", &new_order_time_start->time_start);
    }

    if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
    {
        rcint = bcp_done(o_hdbc2);
        if (rcint < 0)
            HandleErrorDBC(o_hdbc2);

        SQLFreeStmt(o_hstmt2, SQL_DROP);
        SQLDisconnect(o_hdbc2);
        SQLFreeConnect(o_hdbc2);
    }
}

```

```

// if build index after load...
if ((aptr->build_index == 1) && (aptr->index_order == 0))
    BuildIndex("idxnodc1");
}

//=====
// 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 oI;
    long ol_i_id;
    long ol_supply_w_id;
    short ol_quantity;
    double ol_amount;
    char ol_dist_info[DIST_INFO_LEN+1];
    char ol_delivery_d[OL_DELIVERY_D_LEN+1];
    RETCODE rc;
    DBINT rcint;

    // bind ORDER-LINE data
    i = 0;
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol, 0, SQL_VARLEN_DATA, NULL, 0,
SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_i_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_delivery_d, 0,
OL_DELIVERY_D_LEN, NULL, 0, SQLCHARACTER, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_amount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_supply_w_id, 0,
SQL_VARLEN_DATA, NULL, 0, SQLINT4, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_quantity, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, ++i);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
}

```

```

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

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

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

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

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

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

            order_line_rows_loaded++;

            CheckForCommit_Big(o_hdbc3, o_hstmt3,
order_line_rows_loaded, "order_line", &order_line_time_start-
>time_start);
        }

        if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
        {
            rcint = bcp_done(o_hdbc3);
            if (rcint < 0)
                HandleErrorDBC(o_hdbc3);

            SQLFreeStmt(o_hstmt3, SQL_DROP);
            SQLDisconnect(o_hdbc3);
            SQLFreeConnect(o_hdbc3);

            // if build index after load...
            if ((aptr->build_index == 1) && (aptr->index_order == 0))
                BuildIndex("idxodlcl");
        }
    }
}
//=====
// Function : GetPermutation
//=====
void GetPermutation(int perm[], int n)
{
    int i, r, t;

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

    for (i=1;i<=n;i++)
    {

```

```

        r = RandomNumber(i,n);
        t = perm[i];
        perm[i] = perm[r];
        perm[r] = t;
    }
}
//=====
// Function : CheckForCommit
//=====
void CheckForCommit(HDBC hdbc,
                    HSTMT hstmt,
                    long rows_loaded,
                    char *table_name,
                    long *time_start)
{
    longtime_end, time_diff;

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

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

        *time_start = time_end;
    }

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

```

```

(SQLCHAR*)&szDriverString[0] ,
                                SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0],
sizeof(szDriverStringOut),
                                &cbDriverStringOut,
                                SQL_DRIVER_NOPROMPT
);
    if ( (rc != SUCCEED) &&
        (rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(c_hdbc1);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }
    // Connection 4
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                aptr->server,
                                aptr->user,
                                aptr->password,
                                aptr->database );
    rc = SQLSetConnectOption (c_hdbc2, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc2);
    rc = SQLDriverConnect ( c_hdbc2,
                                NULL,
(SQLCHAR*)&szDriverString[0] ,
                                SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0],
sizeof(szDriverStringOut),
                                &cbDriverStringOut,
                                SQL_DRIVER_NOPROMPT
);
    if ( (rc != SUCCEED) &&
        (rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(c_hdbc2);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }
    // Connection 5
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                aptr->server,
                                aptr->user,
                                aptr->password,
                                aptr->database );
    rc = SQLSetConnectOption (o_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc1);
    rc = SQLDriverConnect ( o_hdbc1,
                                NULL,
(SQLCHAR*)&szDriverString[0] ,

```

```

                                SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0],
sizeof(szDriverStringOut),
                                &cbDriverStringOut,
                                SQL_DRIVER_NOPROMPT
);
    if ( (rc != SUCCEED) &&
        (rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(o_hdbc1);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }
    // Connection 6
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                aptr->server,
                                aptr->user,
                                aptr->password,
                                aptr->database );
    rc = SQLSetConnectOption (o_hdbc2, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc2);
    rc = SQLDriverConnect ( o_hdbc2,
                                NULL,
(SQLCHAR*)&szDriverString[0] ,
                                SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0],
sizeof(szDriverStringOut),
                                &cbDriverStringOut,
                                SQL_DRIVER_NOPROMPT
);
    if ( (rc != SUCCEED) &&
        (rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(o_hdbc2);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }
    // Connection 7
    sprintf( szDriverString , "DRIVER={SQL
Server};SERVER=%s;UID=%s;PWD=%s;DATABASE=%s" ,
                                aptr->server,
                                aptr->user,
                                aptr->password,
                                aptr->database );
    rc = SQLSetConnectOption (o_hdbc3, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
    rc = SQLDriverConnect ( o_hdbc3,
                                NULL,
(SQLCHAR*)&szDriverString[0] ,

```

```

                                SQL_NTS,
(SQLCHAR*)&szDriverStringOut[0],
sizeof(szDriverStringOut),
                                &cbDriverStringOut,
                                SQL_DRIVER_NOPROMPT
);
    if ( (rc != SUCCEED) &&
         (rc != SQL_SUCCESS_WITH_INFO) )
    {
        HandleErrorDBC(o_hdbc3);
        printf("TPC-C Loader aborted!\n");
        exit(9);
    }
}
//=====
// Function name: BuildIndex
//=====
void BuildIndex(char*index_script)
{
    char    cmd[256];

    printf("Starting index creation:  %s\n",index_script);
    sprintf(cmd, "osql -S%s -U%s -P%s -e -i%s\\%s.sql > %s%s.log",
            aptr->server,
            aptr->user,
            aptr->password,
            aptr->index_script_path,
            index_script,
            aptr->log_path,
            index_script);

    system(cmd);

    printf("Finished index creation:  %s\n",index_script);
}
//=====
// Function name: HandleErrorDBC
//=====
void HandleErrorDBC (SQLHDBC hdbc1)
{
    SQLCHAR        SqlState[6], Msg[SQL_MAX_MESSAGE_LENGTH];
    SQLLEN         NativeError;
    SQLSMALLINT i, MsgLen;
    SQLRETURN      rc2;
    char           timebuf[128];
    char           datebuf[128];
    char           err_log_path[256];
    FILE           *fpI;

    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,"tpcldr.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           *fpI;

    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 TPCCCLR.<<<<\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,"tpcldr.err");
        fp1 = fopen(err_log_path,"a+");
        if (fp1 == NULL)
            printf("ERROR: Unable to open errorlog file.\n");
        else
        {

```

```

        fprintf(fp1, "[%s : %s] %s\nSQLState: %s\n" ,
datebuf, timebuf, szLastError, SqlState);
        fclose(fp1);
    }
    i++;
}
//=====
// Function   : FormatDate
//=====
void FormatDate ( char* szTimeCOutput )
{
    struct tm when;
    time_t now;

    time( &now );
    when = *localtime( &now );

    mktime( &when );

    // odbc datetime format
    strftime( szTimeCOutput , 30 , "%Y-%m-%d %H:%M:%S.000", &when );

    return;
}

```


Appendix C - Tunable Parameters

BIOS.TXT

```
Platform -> ACPI -> Hot Addable Memory -> Disable
Platform -> Console Manager Delay -> 00
Advanced -> PCI Hot-Plug Resources -> Disabled
```

BOOT.INI

```
[boot loader]
timeout=30
default=multi(0)disk(0)rdisk(0)partition(1)\WINDOWS
[operating systems]
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows Server 2003 Enterprise x64
Edition" /noexecute=optout /fastdetect
```

User Rights Assignment

The Group Policy Editor of the OS was used to modify an entry under User Rights Assignment. Specifically, the right to "Lock pages in memory" was given to the Administrators group so that SQL Server could use large amounts of physical memory.

Hyperthreading.txt

```
Hyper-Threading Technology is available.
Logical Processors Per Package: 4
OS Affinity ID: 0x00000001, APIC ID: 0 PHY ID: 0, LOG ID: 0
OS Affinity ID: 0x00000002, APIC ID: 1 PHY ID: 0, LOG ID: 1
OS Affinity ID: 0x00000004, APIC ID: 2 PHY ID: 0, LOG ID: 2
OS Affinity ID: 0x00000008, APIC ID: 3 PHY ID: 0, LOG ID: 3
OS Affinity ID: 0x00000010, APIC ID: 8 PHY ID: 2, LOG ID: 0
OS Affinity ID: 0x00000020, APIC ID: 9 PHY ID: 2, LOG ID: 1
OS Affinity ID: 0x00000040, APIC ID: 10 PHY ID: 2, LOG ID: 2
OS Affinity ID: 0x00000080, APIC ID: 11 PHY ID: 2, LOG ID: 3
OS Affinity ID: 0x00000100, APIC ID: 16 PHY ID: 4, LOG ID: 0
OS Affinity ID: 0x00000200, APIC ID: 17 PHY ID: 4, LOG ID: 1
OS Affinity ID: 0x00000400, APIC ID: 18 PHY ID: 4, LOG ID: 2
OS Affinity ID: 0x00000800, APIC ID: 19 PHY ID: 4, LOG ID: 3
OS Affinity ID: 0x00001000, APIC ID: 24 PHY ID: 6, LOG ID: 0
OS Affinity ID: 0x00002000, APIC ID: 25 PHY ID: 6, LOG ID: 1
OS Affinity ID: 0x00004000, APIC ID: 26 PHY ID: 6, LOG ID: 2
OS Affinity ID: 0x00008000, APIC ID: 27 PHY ID: 6, LOG ID: 3
OS Affinity ID: 0x00010000, APIC ID: 32 PHY ID: 8, LOG ID: 0
OS Affinity ID: 0x00020000, APIC ID: 33 PHY ID: 8, LOG ID: 1
OS Affinity ID: 0x00040000, APIC ID: 34 PHY ID: 8, LOG ID: 2
OS Affinity ID: 0x00080000, APIC ID: 35 PHY ID: 8, LOG ID: 3
OS Affinity ID: 0x00100000, APIC ID: 40 PHY ID: 10, LOG ID: 0
OS Affinity ID: 0x00200000, APIC ID: 41 PHY ID: 10, LOG ID: 1
OS Affinity ID: 0x00400000, APIC ID: 42 PHY ID: 10, LOG ID: 2
OS Affinity ID: 0x00800000, APIC ID: 43 PHY ID: 10, LOG ID: 3
OS Affinity ID: 0x01000000, APIC ID: 48 PHY ID: 12, LOG ID: 0
OS Affinity ID: 0x02000000, APIC ID: 49 PHY ID: 12, LOG ID: 1
OS Affinity ID: 0x04000000, APIC ID: 50 PHY ID: 12, LOG ID: 2
OS Affinity ID: 0x08000000, APIC ID: 51 PHY ID: 12, LOG ID: 3
OS Affinity ID: 0x10000000, APIC ID: 56 PHY ID: 14, LOG ID: 0
OS Affinity ID: 0x20000000, APIC ID: 57 PHY ID: 14, LOG ID: 1
OS Affinity ID: 0x40000000, APIC ID: 58 PHY ID: 14, LOG ID: 2
OS Affinity ID: 0x80000000, APIC ID: 59 PHY ID: 14, LOG ID: 3
Processors with Hyper-Threading Technology enabled was detected.
```

Microsoft SQL Server Configuration Parameters

StartSQL.cmd

```

REM ***** NORMAL RUN *****
"C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Binn\sqlservr.exe" -
c -x -T661 -T3502 -T8744 -T834

rem T661 - Disable the ghost record removal process
rem T834 - Use Windows large-page allocations for the buffer pool
rem T3502 - Display Checkpoint messages in the SQL Server errorlog
rem T8744 - Disallow pre-fetch for ranges
    
```

Sydbtune.ver

```

1> 2> 3> 4> 5> 6> 7> 8> 9> 10> 11> 12> -----
--
-- File:   VERSION.SQL
--         Microsoft TPC-C Benchmark Kit Ver. 4.62
--
--         Copyright Microsoft, 2005
--
--         - Extracts current version of SQL Server
--
-----
USE master
1> 2> 3> 4> 5>
SELECT  CONVERT(char(20), SERVERPROPERTY('ProductVersion')),
        CONVERT(char(20), SERVERPROPERTY('ProductLevel')),
        CONVERT(char(29), SERVERPROPERTY('Edition'))
-----
9.00.3033.00      SP2      Enterprise Edition (64-bit)

(1 row affected)
1> 2> 3>
SELECT  CONVERT(char(30), GETDATE(), 21)
-----
2007-03-07 21:57:32.810

(1 row affected)
1>
1> 2> 3> 4> 5> 6> 7> 8> 9> 10> 11> 12> 13> 14> -----
--
-- File:   CONFIG.SQL
--         Microsoft TPC-C Benchmark Kit Ver. 4.62
--
--         Copyright Microsoft, 2005
--
--         - Collects SQL Server configuration parameters
--
-----
    
```

```

-----
PRINT  ' '
SELECT  CONVERT(char(30), GETDATE(), 21)
PRINT  ' '

-----
2007-03-07 21:57:33.000

(1 row affected)

1> 2> 3> Configuration option 'show advanced options' changed from 1 to 1.
Run the RECONFIGURE statement to install.

sp_configure 'show advanced',1
1> 2> 3>
RECONFIGURE WITH OVERRIDE
1> 2> 3>
sp_configure
name                                minimum    maximum    config_value
run_value
-----
Ad Hoc Distributed Queries           0          1          0
0
affinity I/O mask                    -2147483648 2147483647  0
0
affinity mask                        -2147483648 2147483647 -1
-1
affinity64 I/O mask                 -2147483648 2147483647  0
0
affinity64 mask                      -2147483648 2147483647  0
0
Agent XPs                            0          1          0
0
allow updates                        0          1          0
0
awe enabled                          0          1          0
0
blocked process threshold            0          86400     0
0
c2 audit mode                        0          1          0
0
clr enabled                          0          1          0
0
common criteria compliance enabled   0          1          0
5
cost threshold for parallelism       0          32767     5
0
cross db ownership chaining          0          1          0
0
cursor threshold                     -1 2147483647 -1
-1
Database Mail XPs                    0          1          0
0
default full-text language           0 2147483647 1033
1033
default language                     0          9999     0
0
default trace enabled                0          1          1
1
disallow results from triggers       0          1          0
0
fill factor (%)                      0          100       0
0
ft crawl bandwidth (max)             0          32767     100
    
```

100			
0	ft crawl bandwidth (min)	0 32767	0
0	ft notify bandwidth (max)	0 32767	100
100			
0	ft notify bandwidth (min)	0 32767	0
0	in-doubt xact resolution	0 2	0
0	index create memory (KB)	704 2147483647	0
0	lightweight pooling	0 1	1
1	locks	5000 2147483647	0
0	max degree of parallelism	0 64	1
1	max full-text crawl range	0 256	4
4			
0	max server memory (MB)	16 2147483647	251500
251500			
0	max text repl size (B)	0 2147483647	65536
65536			
0	max worker threads	128 32767	1280
1280			
0	media retention	0 365	0
0	min memory per query (KB)	512 2147483647	1024
1024			
0	min server memory (MB)	0 2147483647	0
0	nested triggers	0 1	1
1			
0	network packet size (B)	512 32767	4096
4096			
0	Ole Automation Procedures	0 1	0
0	open objects	0 2147483647	0
0	PH timeout (s)	1 3600	60
60			
0	precompute rank	0 1	0
0	priority boost	0 1	1
1			
0	query governor cost limit	0 2147483647	0
0	query wait (s)	-1 2147483647	-1
-1			
0	recovery interval (min)	0 32767	32767
32767			
0	remote access	0 1	1
1			
0	remote admin connections	0 1	0
0	remote login timeout (s)	0 2147483647	20
20			
0	remote proc trans	0 1	0
0	remote query timeout (s)	0 2147483647	600
600			
0	Replication XPs	0 1	0
0	scan for startup procs	0 1	0
0	server trigger recursion	0 1	1

1			
0	set working set size	0 1	0
0	show advanced options	0 1	1
1			
0	SMO and DMO XPs	0 1	1
1			
0	SQL Mail XPs	0 1	0
0	transform noise words	0 1	0
0	two digit year cutoff	1753 9999	2049
2049			
0	user connections	0 32767	0
0	user options	0 32767	0
0	Web Assistant Procedures	0 1	0
0	xp_cmdshell	0 1	0
0			
1>			

SOFTWARE_Microsoft_MicrosoftSQLServer.txt

Key Name:	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server
Class Name:	<NO CLASS>
Last Write Time:	1/19/2007 - 11:48 AM
Value 0	
Name:	SsrpActiveServer
Type:	REG_SZ
Data:	
Value 1	
Name:	InstalledInstances
Type:	REG_MULTI_SZ
Data:	MSSQLSERVER
Key Name:	HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90
Class Name:	<NO CLASS>
Last Write Time:	2/6/2007 - 11:53 AM
Value 0	
Name:	SharedCode
Type:	REG_SZ
Data:	C:\Program Files\Microsoft SQL Server\90\Shared\
Value 1	
Name:	VerSpecificRootDir
Type:	REG_SZ
Data:	C:\Program Files\Microsoft SQL Server\90\
Value 2	
Name:	EnableErrorReporting
Type:	REG_DWORD
Data:	0
Value 3	
Name:	ErrorReportingDir
Type:	REG_SZ

Data: C:\Program Files\Microsoft SQL
Server\90\Shared>ErrorDumps\

Value 4
Name: CustomerFeedback
Type: REG_DWORD
Data: 0

Value 5
Name: TimeOfReporting
Type: REG_DWORD
Data: 0xf0

Value 6
Name: CollectorParameters
Type: REG_SZ
Data:

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Bootstrap
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: BootstrapDir
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Bootstrap\MSIRefCount
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:46 AM
Value 0
Name: Uninstall
Type: REG_SZ
Data: {11111111-1111-1111-1111-111111111111}, {79F1B65E-8FC0-
4D03-954D-F9E71C85AEC7}, {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Bootstrap\Setup
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:46 AM
Value 0
Name: PatchLevel
Type: REG_SZ
Data: 9.2.3033

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Cost
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:51 AM
Value 0
Name: SQLSetup
Type: REG_SZ
Data: 8388608

Value 1
Name: ToolsSetup
Type: REG_SZ
Data: 26214400

Value 2

Name: MSXML6
Type: REG_SZ
Data: 15728640

Value 3
Name: bol
Type: REG_SZ
Data: 178257920

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Machines
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:52 AM
Value 0
Name: OriginalMachineName
Type: REG_SZ
Data: UNISYS-MV-TPCC

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:37 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration\Node0
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM
Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xff

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration\Node1
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM
Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xffff0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration\Node2
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM
Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xffff000

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\NodeConfiguration\Node3
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM
Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xffff00000

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL

```

Server\90\ProductID
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
  Name: ProductID77591
  Type: REG_SZ
  Data: 77591-045-4200726-05579

Value 1
  Name: DigitalProductID77591
  Type: REG_BINARY
  Data:
00000000 a4 00 00 00 03 00 00 00 - 37 37 35 39 31 2d 30 34
00000010 77591-04
00000010 35 2d 34 32 30 30 37 32 - 36 2d 30 35 35 37 39 00 5-4200726-
05579.
00000020 0a 00 00 00 00 00 00 00 - 00 00 00 00 00 00 00 00
00000030 00 00 00 00 50 1c 6a 05 - c2 02 72 77 75 51 b0 8f
00000040 P.j.A.rwuQ.
00000040 29 99 02 00 00 00 00 00 - c8 af b0 45 44 b6 65 00
).....E-EDfe.
00000050 00 00 00 00 00 00 00 00 - 00 00 00 00 00 00 00 00
00000060 00 00 00 00 00 00 00 00 - 30 32 32 30 30 00 00 00
00000070 02200...
00000070 00 00 00 00 00 00 00 00 - 42 86 cd e0 7f ff 01 00
00000080 B.f.a.y..
00000080 00 00 00 00 00 00 00 00 - 00 00 00 00 00 00 00 00
00000090 00 00 00 00 00 00 00 00 - 00 00 00 00 00 00 00 00
a5 29 f6 8b
                                     ¥)ö.

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:51 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\ClientSetup
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:58 AM
Value 0
  Name: SQLBinRoot
  Type: REG_SZ
  Data: c:\Program Files\Microsoft SQL Server\90\Shared\

Value 1
  Name: SQLPath
  Type: REG_SZ
  Data: c:\Program Files\Microsoft SQL Server\90\Tools

Value 2
  Name: Path
  Type: REG_SZ
  Data: c:\Program Files\Microsoft SQL Server\90\Tools\bin\

Value 3
  Name: checksum
  Type: REG_BINARY
  Data:
00000000 39 35 33 66 66 66 30 65 - 62 38 32 62 30 34 37 62
953fff0eb82b047b
00000010 31 30 35 31 36 38 32 31 - 30 30 63 63 36 62 62 39

```

```

1051682100cc6bb9
00000020 37 31 32 65 31 31 66 32 - 65 34 36 66 31 38 34 34
712e11f2e46f1844
00000030 62 34 34 38 66 66 66 33 - 35 31 61 30 61 61 37 32
b448fff351a0aa72
00000040 62 31 62 38 66 62 31 66 - 32 66 33 34 30 62 30 62
b1b8fb1f2f340b0b
00000050 37 38 63 35 30 66 34 62 - 66 39 36 66 62 31 63 37
78c50f4bf96fb1c7
00000060 30 37 32 30 32 32 61 31 - 38 34 34 39 35 31 32 63
072022a18449512c
00000070 39 37 66 39 32 61 66 34 - 31 63 38 64 64 62 64 64
97f92af41c8ddbdd
00000080 66 32 65 61 36 39 38 63 - 65 37 33 39 31 35 35 37
f2ea698ce7391557
00000090 64 32 34 63 34 31 30 66 - 30 61 31 64 64 39 30 38
d24c410f0aldd908
000000a0 36 31 32 61 38 64 66 38 - 63 62 36 62 66 35 32 35
612a8df8cb6bf525
000000b0 66 33 37 34 35 33 34 31 - 32 63 65 32 65 39 34 66
f37453412ce2e94f
00

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\ClientSetup\CurrentVersion
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
  Name: Language
  Type: REG_DWORD
  Data: 0x409

Value 1
  Name: CurrentVersion
  Type: REG_SZ
  Data: 9.00.3033.00

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Service Manager
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
  Name: Services
  Type: REG_MULTI_SZ
  Data: ;

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Setup
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:51 AM
Value 0
  Name: Version
  Type: REG_SZ
  Data: 9.2.3033.00

Value 1
  Name: Language
  Type: REG_DWORD
  Data: 0x409

Value 2
  Name: ProductCode
  Type: REG_SZ

```

```

Data: {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}
Value 3
Name: FeatureList
Type: REG_SZ
Data: Client Components=3 SQL Documentation=3 Connectivity=3
SQL_Tools90=3 TOOLS_BC_DEP=3 SQL_BooksOnline=3
Value 4
Name: PatchLevel
Type: REG_SZ
Data: 9.2.3033
Value 5
Name: SQLPath
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\90\Tools\
Value 6
Name: checksum
Type: REG_BINARY
Data:
00000000 39 35 33 66 66 66 30 65 - 62 38 32 62 30 34 37 62
953fff0eb82b047b
00000010 31 30 35 31 36 38 32 31 - 30 30 63 63 36 62 62 39
1051682100cc6bb9
00000020 37 31 32 65 31 31 66 32 - 65 34 36 66 31 38 34 34
712e11f2e46f1844
00000030 62 34 34 38 66 66 66 33 - 35 31 61 30 61 61 37 32
b448fff351a0aa72
00000040 62 31 62 38 66 62 31 66 - 32 66 33 34 30 62 30 62
b1b8fb1f2f340b0b
00000050 37 38 63 35 30 66 34 62 - 66 39 36 66 62 31 63 37
78c50f4bf96fblc7
00000060 30 37 32 30 32 32 61 31 - 38 34 34 39 35 31 32 63
072022a18449512c
00000070 39 37 66 39 32 61 66 34 - 31 63 38 64 64 62 64 64
97f92af41c8ddbdd
00000080 66 32 65 61 36 39 38 63 - 65 37 33 39 31 35 35 37
f2ea698ce7391557
00000090 64 32 34 63 34 31 30 66 - 30 61 31 64 64 39 30 38
d24c410f0a1dd908
000000a0 36 31 32 61 38 64 66 38 - 63 62 36 62 66 35 32 35
612a8df8cb6bf525
000000b0 66 33 37 34 35 33 34 31 - 32 63 65 32 65 39 34 66
f37453412ce2e94f
00
Value 7
Name: Edition
Type: REG_SZ
Data: Enterprise Edition (64-bit)
Value 8
Name: EditionType
Type: REG_SZ
Data: Enterprise Edition (64-bit)
Value 9
Name: SP
Type: REG_DWORD
Data: 0x2
Value 10
Name: AssociatedHotfixBuild
Type: REG_SZ

```

```

Data: 1520
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\SQL Server Error and Usage Reporting
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: 1033
Type: REG_SZ
Data:
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall Info
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:51 AM
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall Info\{73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:52 AM
Value 0
Name: Product
Type: REG_SZ
Data: Client_Components
Value 1
Name: SetupHive
Type: REG_SZ
Data: 90\Tools
Value 2
Name: RemoveList
Type: REG_SZ
Data: Client_Components,Connectivity,SQL_Tools90,SQL_WarehouseDevWorkbench,SDK,
SQLXML,Tools_Legacy,TOOLS_BC_DEP,SQL_Documentation,SQL_BooksOnline,SQL_Da

```

tabaseSamples, SQL_AdventureWorksSamples, SQL_AdventureWorksDWSamples, SQL_AdventureWorksASSamples, SQL_Samples

Value 3
Name: ModifyPath
Type: REG_SZ
Data: "c:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\setup.exe" /resumesetup /productcode {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56} /I {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Value 4
Name: UninstallPath
Type: REG_SZ
Data: "c:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\setup.exe" /resumesetup /productcode {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56} /X {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Value 5
Name: Status
Type: REG_DWORD
Data: 0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall_Info\{79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM

Value 0
Name: Product
Type: REG_SZ
Data: SQL_Engine

Value 1
Name: SetupHive
Type: REG_SZ
Data: MSSQL.1

Value 2
Name: RemoveList
Type: REG_SZ
Data:

SQL_Engine, SQL_Data_Files, SQL_Replication, SQL_FullText, SQL_SharedTools, SQL_BC_DEP

Value 3
Name: ModifyPath
Type: REG_SZ
Data: "c:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\setup.exe" /resumesetup /productcode {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7} /I {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}

Value 4
Name: UninstallPath
Type: REG_SZ
Data: "c:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\setup.exe" /resumesetup /productcode {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7} /X {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}

Value 5
Name: Status
Type: REG_DWORD
Data: 0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\BC

Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:44 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\BC\CurrentVersion
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:53 AM
Value 0
Name: Version
Type: REG_SZ
Data: 8.05.2002

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\BC\MSIRefCount
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:53 AM
Value 0
Name: Uninstall
Type: REG_SZ
Data: {11111111-1111-1111-1111-111111111111}, {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}, {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\ExceptionMessageBox
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: ShowFeedbackButton
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Instance Names
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Instance Names\SQL
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: MSSQLSERVER
Type: REG_SZ
Data: MSSQL.1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: <NO NAME>
Type: REG_SZ
Data: MSSQLSERVER

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\CPE
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: ErrorDumpDir
Type: REG_SZ

Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\LOG\
Value 1
Name: EnableErrorReporting
Type: REG_DWORD
Data: 0
Value 2
Name: CustomerFeedback
Type: REG_DWORD
Data: 0
Value 3
Name: TimeOfReporting
Type: REG_DWORD
Data: 0x3c
Value 4
Name: CollectorParameters
Type: REG_SZ
Data: SQL\MSSQL.1
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM
Value 0
Name: AuditLevel
Type: REG_DWORD
Data: 0x2
Value 1
Name: DebugClassID
Type: REG_SZ
Data: {CF889E03-9F82-4AEF-8CC0-15A747E9E41E}
Value 2
Name: DefaultLogin
Type: REG_SZ
Data: guest
Value 3
Name: LoginMode
Type: REG_DWORD
Data: 0x2
Value 4
Name: Map
Type: REG_SZ
Data: \
Value 5
Name: Map#
Type: REG_SZ
Data: -
Value 6
Name: Map\$
Type: REG_SZ
Data: \
Value 7
Name: SetHostName
Type: REG_DWORD

Data: 0
Value 8
Name: Tapeloadwaittime
Type: REG_DWORD
Data: 0xffffffff
Value 9
Name: BackupDirectory
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Backup
Value 10
Name: SysDb
Type: REG_DWORD
Data: 0x1
Value 11
Name: uptime_pid
Type: REG_DWORD
Data: 0xb1c
Value 12
Name: uptime_time_utc
Type: REG_BINARY
Data: 18 43 95 6f df 60 c7 01 - .C.oS`Ç.
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\CurrentVersion
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: Language
Type: REG_DWORD
Data: 0x409
Value 1
Name: CurrentVersion
Type: REG_SZ
Data: 9.00.3033.00
Value 2
Name: RegisteredOwner
Type: REG_SZ
Data: \
Value 3
Name: SerialNumber
Type: REG_SZ
Data: \
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: SQLArg0
Type: REG_SZ
Data: -dC:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA\master.mdf
Value 1

Name: SQLArg1
 Type: REG_SZ
 Data: -eC:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\LOG\ERRORLOG

Value 2
 Name: SQLArg2
 Type: REG_SZ
 Data: -lC:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA\mastlog.ldf

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM

Value 0
 Name: ForceEncryption
 Type: REG_DWORD
 Data: 0

Value 1
 Name: HideInstance
 Type: REG_DWORD
 Data: 0

Value 2
 Name: Certificate
 Type: REG_SZ
 Data:

Value 3
 Name: DisplayName
 Type: REG_SZ
 Data: SQL Server Network Configuration

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\AdminConnection
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM

Value 0
 Name: DisplayName
 Type: REG_SZ
 Data: Dedicated Administrative Connection

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\AdminConnection\Tcp
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM

Value 0
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data: 1434

Value 1
 Name: DisplayName
 Type: REG_SZ
 Data: TCP/IP

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Np
 Class Name: <NO CLASS>
 Last Write Time: 2/8/2007 - 5:32 PM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: PipeName
 Type: REG_SZ
 Data: \\.\pipe\sql\query

Value 2
 Name: DisplayName
 Type: REG_SZ
 Data: Named Pipes

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Sm
 Class Name: <NO CLASS>
 Last Write Time: 3/2/2007 - 6:16 AM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: DisplayName
 Type: REG_SZ
 Data: Shared Memory

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp
 Class Name: <NO CLASS>
 Last Write Time: 2/16/2007 - 11:24 AM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: ListenOnAllIPs
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NoDelay
 Type: REG_DWORD
 Data: 0

Value 3
 Name: KeepAlive
 Type: REG_DWORD
 Data: 0x7530

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: TCP/IP

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP1
 Class Name: <NO CLASS>
 Last Write Time: 1/24/2007 - 11:38 AM

Value 0

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Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1433

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

Value 5
Name: IpAddress
Type: REG_SZ
Data: 192.59.13.144

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP2
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1433

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

Value 5
Name: IpAddress
Type: REG_SZ
Data: 127.0.0.1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL

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Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP3
Class Name: <NO CLASS>
Last Write Time: 1/26/2007 - 1:23 PM
Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1401[0x1]

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

Value 5
Name: IpAddress
Type: REG_SZ
Data: 192.168.90.141

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP4
Class Name: <NO CLASS>
Last Write Time: 1/26/2007 - 1:23 PM
Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1402[0x2]

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

Value 5
Name: IpAddress
Type: REG_SZ

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Data: 192.168.90.142

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP5
Class Name: <NO CLASS>
Last Write Time: 1/26/2007 - 1:23 PM
Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1403[0x4]

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

Value 5
Name: IPAddress
Type: REG_SZ
Data: 192.168.90.143

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP6
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1433

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

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Value 5
Name: IPAddress
Type: REG_SZ
Data: 192.168.90.141

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP63
Class Name: <NO CLASS>
Last Write Time: 1/26/2007 - 1:23 PM
Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1404[0x8]

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

Value 5
Name: IPAddress
Type: REG_SZ
Data: 192.168.90.144

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP7
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1433

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

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Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Specific IP Address

Value 5
 Name: IPAddress
 Type: REG_SZ
 Data: 192.168.91.246

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP8
 Class Name: <NO CLASS>
 Last Write Time: 2/6/2007 - 11:48 AM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Active
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: TcpPort
 Type: REG_SZ
 Data: 1433

Value 3
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Specific IP Address

Value 5
 Name: IPAddress
 Type: REG_SZ
 Data: 192.59.13.246

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP9
 Class Name: <NO CLASS>
 Last Write Time: 2/6/2007 - 11:48 AM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Active
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: TcpPort
 Type: REG_SZ
 Data: 1433

Value 3

Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Specific IP Address

Value 5
 Name: IPAddress
 Type: REG_SZ
 Data: 127.0.0.1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IPAll
 Class Name: <NO CLASS>
 Last Write Time: 2/6/2007 - 11:03 AM

Value 0
 Name: TcpPort
 Type: REG_SZ
 Data: 1433,1401 [0x2] , 1402 [0x1] , 1403 [0x4] , 1404 [0x8] , 1405 [0x3] , 1406 [0xc]

Value 1
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 2
 Name: DisplayName
 Type: REG_SZ
 Data: Any IP Address

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Via
 Class Name: <NO CLASS>
 Last Write Time: 3/5/2007 - 11:11 PM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: DefaultServerPort
 Type: REG_SZ
 Data: 0:1433

Value 2
 Name: ListenInfo
 Type: REG_SZ
 Data: 0:1401 [0x2] , 1:1402 [0x1] , 2:1403 [0x4] , 3:1404 [0x8] , 4:1405 [0x3] , 5:1406 [0xc]

Value 3
 Name: DisplayName
 Type: REG_SZ
 Data: VIA

Value 4
 Name: VendorDLL
 Type: REG_SZ
 Data: uvip1.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: AllowInProcess Type: REG_DWORD Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\ADSDSOObject Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: AllowInProcess Type: REG_DWORD Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\DB2OLEDB Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: AllowInProcess Type: REG_DWORD Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\Microsoft.Jet.OLEDB.4.0 Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: AllowInProcess Type: REG_DWORD Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSDAORA Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: AllowInProcess Type: REG_DWORD Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSDASQL Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: AllowInProcess Type: REG_DWORD Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSIDXSS Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0

Name: AllowInProcess Type: REG_DWORD Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSQLImpProv Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: AllowInProcess Type: REG_DWORD Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\MSSEARCHSQL Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: AllowInProcess Type: REG_DWORD Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Providers\SQLNCLI Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: AllowInProcess Type: REG_DWORD Data: 0x1

Value 1 Name: DisallowAdhocAccess Type: REG_DWORD Data: 0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\Security Class Name: <NO CLASS> Last Write Time: 2/6/2007 - 11:48 AM Value 0 Name: Entropy Type: REG_BINARY Data:

00000000 57 58 60 e2 11 49 f0 f6 - 94 86 d1 9c 92 34 82 15
WX`a.Iöö..Ñ.4..
00000010 ad 8c 41 40 5e d9 8b a2 - 1a 8b 95 90 07 a1 91 ff
-.A@^U.ç....j.ÿ
00000020 28 24 b7 4b 51 f3 96 ed - 1e a2 a0 49 24 31 bf 3a
(\$.KQó.í.ç I\$1ç:
00000030 9a 25 d9 9b 54 dc a7 cf - 8e 41 a1 01 79 ad ea e6
.%Û.TÜ\$Ï.A; .y-êæ
00000040 8e 49 31 b9 b1 12 3b 08 - 39 c2 e4 16 a5 08 cf e5
.I1'±.;.9Âã.¥.fã
00000050 df 98 d1 1e c1 79 dc ac - 4b 75 aa 14 9e 83 a2 47
£.Ñ.ÄyÛ-Ku*...çG
00000060 5a 72 7f b7 74 23 13 2d - f1 3c 5e 50 be 98 e5 90 Zr..t#.-
ñ<^P%.ã.
00000070 c9 e4 12 a1 67 15 e8 27 - 65 82 cc f0 13 85 1c 07
Eä.ig.è'e.İö....
00000080 96 d9 d0 b3 1a b7 e9 77 - 91 ac b4 7e 98 f9 7d 7b
.ÜD³..éw.¬~.ù}{

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00000090 1e 24 22 b4 cb db 25 9b - d4 7d f9 18 31 31 09 93
.$"EU%}û.11.
000000a0 d8 36 13 e9 0e 02 34 72 - 46 16 db 3a 18 ef db 21
06.é..4rF.Û:.iÛ!
000000b0 7e c5 67 77 a1 71 7f 76 - 80 a6 58 c8 f5 1a ee 26
~Agwiq.v.|XEB.i&
000000c0 db 47 64 de ca db bc d2 - 1d 35 a0 ce 2c 71 51 5c
ÛGdBËÛ%0.5 î,qQ\
000000d0 04 61 40 be f5 26 1a cd - 4c cf 88 10 b8 d2 27 4e
.a@%ð&.iLl̄...O'N
000000e0 be 2c 0b cf c5 91 c7 f4 - 09 55 16 a5 4b 0b 0f 97 %,.İ.Å.Çð
U.¥K...
000000f0 ae 5e c1 89 ab 46 94 03 - 63 69 8f ce ae 51 89 5f
@^A.«F..ci.î®Q._

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Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Setup
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AGTGroup
Type: REG_SZ
Data: S-1-5-21-2535477953-2402596449-1775385912-1005
Value 1
Name: SQLGroup
Type: REG_SZ
Data: S-1-5-21-2535477953-2402596449-1775385912-1006
Value 2
Name: FTSGroup
Type: REG_SZ
Data: S-1-5-21-2535477953-2402596449-1775385912-1007
Value 3
Name: Version
Type: REG_SZ
Data: 9.2.3033.00
Value 4
Name: Language
Type: REG_DWORD
Data: 0x409
Value 5
Name: Resume
Type: REG_DWORD
Data: 0
Value 6
Name: ProductCode
Type: REG_SZ
Data: {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}
Value 7
Name: SqlProgramDir
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\
Value 8
Name: checksum
Type: REG_BINARY
Data: 39 35 33 66 66 66 30 65 - 62 38 32 62 30 34 37 62

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953fff0eb82b047b
00000010 31 30 35 31 36 38 32 31 - 30 30 63 64 36 30 62 63
1051682100cd60bc
00000020 63 34 66 37 36 38 66 35 - 66 38 37 61 65 31 31 34
c4f768f5f87ael14
00000030 39 34 31 64 38 39 36 64 - 33 36 66 64 30 61 62 37
941d896d36fd0ab7
00000040 36 36 66 35 32 36 36 66 - 63 32 39 39 64 30 61 32
66f5266fc299d0a2
00000050 35 35 65 65 32 39 64 39 - 61 38 39 37 35 38 33 32
55ee29d9a8975832
00000060 30 33 32 33 30 61 61 32 - 38 39 35 35 63 66 66 33
03230aa28955cff3
00000070 39 65 31 39 39 63 39 34 - 34 64 66 36 38 61 38 35
9e199c944df68a85
00000080 35 65 35 31 63 66 64 34 - 38 30 62 32 39 66 35 66
5e51cfd480b29f5f
00000090 34 34 65 39 34 39 39 39 - 66 35 63 66 35 34 65 62
44e94999f5cf54eb
000000a0 36 31 63 30 35 63 31 31 - 62 38 33 63 38 31 66 63
61c05c11b83c81fc
000000b0 33 34 39 61 63 38 32 39 - 62 64 30 39 38 35 34 63
349ac829bd09854c
00

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Value 9
Name: Edition
Type: REG_SZ
Data: Enterprise Edition (64-bit)
Value 10
Name: SqlCluster
Type: REG_DWORD
Data: 0
Value 11
Name: FeatureList
Type: REG_SZ
Data: SQL_Engine=3 SQL_Data_Files=3 SQL_SharedTools=3
SQL_BC_DEP=3
Value 12
Name: PatchLevel
Type: REG_SZ
Data: 9.2.3033
Value 13
Name: Collation
Type: REG_SZ
Data: SQL_Latin1_General_CP1_CI_AS
Value 14
Name: FirstStart
Type: REG_DWORD
Data: 0
Value 15
Name: SQLDataRoot
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL
Value 16
Name: SQLPath
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL

```

Value 17
Name: SQLBinRoot
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Binn

Value 18
Name: EditionType
Type: REG_SZ
Data: Enterprise Edition (64-bit)

Value 19
Name: SP
Type: REG_DWORD
Data: 0x2

Value 20
Name: AssociatedHotfixBuild
Type: REG_SZ
Data: 1520

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\SQLServerAgent
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: JobHistoryMaxRowsPerJob
Type: REG_DWORD
Data: 0x64

Value 1
Name: SysAdminOnly
Type: REG_DWORD
Data: 0x1

Value 2
Name: DownloadedMaxRows
Type: REG_DWORD
Data: 0x64

Value 3
Name: ErrorLogFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\LOG\SQLAGENT.OUT

Value 4
Name: ErrorLoggingLevel
Type: REG_DWORD
Data: 0x3

Value 5
Name: JobHistoryMaxRows
Type: REG_DWORD
Data: 0x3e8

Value 6
Name: MSXServerName
Type: REG_SZ
Data:

Value 7
Name: NonAlertableErrors
Type: REG_SZ
Data: 1204,4002

Value 8
Name: RestartServer
Type: REG_DWORD
Data: 0x1

Value 9
Name: ServerHost
Type: REG_SZ
Data:

Value 10
Name: WorkingDirectory
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\JOBS\

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\SQLServerSCP
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:58 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\Analysis Server
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: Name
Type: REG_SZ
Data: MSSQLServerOLAPService

Value 1
Name: LName
Type: REG_SZ
Data: MSOLAP\$

Value 2
Name: Type
Type: REG_DWORD
Data: 0x5

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\Full Text
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: LName
Type: REG_SZ
Data: msftesql\$

Value 1
Name: Name
Type: REG_SZ
Data: msftesql

Value 2
Name: Type
Type: REG_DWORD
Data: 0x3

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\Notification Services
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: LName
Type: REG_SZ
Data: NS\$

Value 1
Name: Name
Type: REG_SZ
Data: NsService

Value 2
Name: Type
Type: REG_DWORD
Data: 0x8

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\Report Server
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: Name
Type: REG_SZ
Data: ReportServer

Value 1
Name: LName
Type: REG_SZ
Data: ReportServer\$

Value 2
Name: Type
Type: REG_DWORD
Data: 0x6

Value 3
Name: GroupPrefix
Type: REG_SZ
Data: SQLServer2005ReportServerUser\$UNISYS-MV-TPCC\$

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\ReportServer
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: LName
Type: REG_SZ
Data: ReportServer\$

Value 1
Name: Name
Type: REG_SZ
Data: ReportServer

Value 2
Name: Type
Type: REG_DWORD
Data: 0x6

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SQL Agent
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: Name
Type: REG_SZ
Data: SQLSERVERAGENT

Value 1
Name: LName
Type: REG_SZ
Data: SQLAgent\$

Value 2
Name: Type
Type: REG_DWORD
Data: 0x2

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SQL Browser
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: LName
Type: REG_SZ
Data:

Value 1
Name: Name
Type: REG_SZ
Data: SQLBrowser

Value 2
Name: Type
Type: REG_DWORD
Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SQL Server
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: Name
Type: REG_SZ
Data: MSSQLServer

Value 1
Name: LName
Type: REG_SZ
Data: MSSQL\$

Value 2
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SSIS Server
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0

Name: GroupPrefix
Type: REG_SZ
Data: SQLServer2005DTSUser\$UNISYS-MV-TPCC

Value 1
Name: LName
Type: REG_SZ
Data:

Value 2
Name: Name
Type: REG_SZ
Data: MsDtsServer

Value 3
Name: Type
Type: REG_DWORD
Data: 0x4

SOFTWARE_Microsoft_MSSQLVIVendors.txt

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\MSSQLVIVendors
Class Name: <NO CLASS>
Last Write Time: 2/8/2007 - 11:22 AM
Value 0
Name: Unisys
Type: REG_SZ
Data: c:\windows\system32\uvipl.dll

Storage Configuration Information

Database_controller_config.txt

: raid; encprint
Number of enclosures: 4
Enclosure index: 0
Name:
WNN: 01E2144F10000029
Flag: 1
SP temp: 49.0
Backend Drives:
0: D0.3.0 70007 MB 512 SN= J5YVWU6K WNN=5000CCA002768091 33
1: D0.2.0 70007 MB 512 SN= JCV0JR4K WNN=5000CCA006403EBE 33
2: D0.1.0 70007 MB 512 SN= J5YMP20K WNN=5000CCA0027338A3 31
3: D0.0.0 70007 MB 512 SN= J5YRXJNK WNN=5000CCA00274B1CD 31
4: D0.7.0 70007 MB 512 SN= J5YVJJPK WNN=5000CCA00276563E 32
5: D0.6.0 70007 MB 512 SN= J5YBLWUK WNN=5000CCA0026F8D88 33
6: D0.5.0 70007 MB 512 SN= J5Y9B16K WNN=5000CCA0026E874A 31
7: D0.4.0 70007 MB 512 SN= J5YTD5K WNN=5000CCA002755F51 33
8: D0.11.0 70007 MB 512 SN= J5YMW8K WNN=5000CCA0027350C4 32
9: D0.10.0 70007 MB 512 SN= J5YH45YK WNN=5000CCA0027127D0 32

10: D0.9.0 70007 MB 512 SN= J5YJZP0K WNN=5000CCA00271FF9C 33
11: D0.8.0 70007 MB 512 SN= J5YBGGHK WNN=5000CCA0026F7CE7 31
12: D0.14.0 70007 MB 512 SN= J5YTE2AK WNN=5000CCA002756080 32
13: D0.13.0 70007 MB 512 SN= J5YSWZLK WNN=5000CCA00275241B 31
14: D0.12.0 70007 MB 512 SN= J5YVT2VK WNN=5000CCA002767299 32

Total Drives: 15
Enclosure index: 1
Name: JBOD 1
WNN: 01E5984D10000041
Flag: 2
SP temp: 49.0

Backend Drives:
0: D0.15.0 70007 MB 512 SN= J5W35K8P WNN=5000CCA0024F897A 32
1: D0.16.0 70007 MB 512 SN= J5WMKM4K WNN=5000CCA00256FCB0 31
2: D0.17.0 70007 MB 512 SN= J5X1SPEK WNN=5000CCA0025CFC50 30
3: D0.18.0 70007 MB 512 SN= J5W8YNVK WNN=5000CCA0025229DC 32
4: D0.19.0 70007 MB 512 SN= J5WUX4P WNN=5000CCA0025ABEC7 31
5: D0.20.0 70007 MB 512 SN= J5WMKLLK WNN=5000CCA00256FCA8 30
6: D0.21.0 70007 MB 512 SN= J5X1N0MK WNN=5000CCA0025CEE88 32
7: D0.22.0 70007 MB 512 SN= J5WMKHJK WNN=5000CCA00256FC40 31
8: D0.23.0 70007 MB 512 SN= J5X25V2P WNN=5000CCA0025D2DAD 31
9: D0.24.0 70007 MB 512 SN= J5W8YVJK WNN=5000CCA002522A8C 32
10: D0.25.0 70007 MB 512 SN= J5WMKDRK WNN=5000CCA00256FBEB 32
11: D0.26.0 70007 MB 512 SN= J5WUUPPP WNN=5000CCA0025ABE7B 31
12: D0.27.0 70007 MB 512 SN= J5WMKG2K WNN=5000CCA00256FC13 30
13: D0.28.0 70007 MB 512 SN= J5W35P9P WNN=5000CCA0024F89F7 31
14: D0.29.0 70007 MB 512 SN= J5W35NZP WNN=5000CCA0024F89ED 32

Total Drives: 15
Enclosure index: 2
Name: JBOD 2
WNN: 0147814E10000074
Flag: 2
SP temp: 49.0

Backend Drives:
0: D0.30.0 70007 MB 512 SN= J5WUUVSP WNN=5000CCA0025ABE9C 31
1: D0.31.0 70007 MB 512 SN= J5WUUV5P WNN=5000CCA0025ABE8A 30
2: D0.32.0 70007 MB 512 SN= J5WUX8P WNN=5000CCA0025ABECB 30
3: D0.33.0 70007 MB 512 SN= J5X25Z0P WNN=5000CCA0025D2E27 32
4: D0.34.0 70007 MB 512 SN= J5X25W6P WNN=5000CCA0025D2DD0 31
5: D0.35.0 70007 MB 512 SN= J5X1N9LK WNN=5000CCA0025CEF9E 33
6: D0.36.0 70007 MB 512 SN= J5WORWKK WNN=5000CCA0024E6D6D 33
7: D0.37.0 70007 MB 512 SN= J5WORTGK WNN=5000CCA0024E6D0D 31
8: D0.38.0 70007 MB 512 SN= J5W18WHP WNN=5000CCA0024EAD3C 30
9: D0.39.0 70007 MB 512 SN= J5WUUXRP WNN=5000CCA0025ABED9 32
10: D0.40.0 70007 MB 512 SN= J5X1N34K WNN=5000CCA0025CEED6 31
11: D0.41.0 70007 MB 512 SN= J5X25YBP WNN=5000CCA0025D2E13 31
12: D0.42.0 70007 MB 512 SN= J5W22VJK WNN=5000CCA0024F0AF7 32
13: D0.43.0 70007 MB 512 SN= J5WUUIJP WNN=5000CCA0025ABE76 32
14: D0.44.0 70007 MB 512 SN= J5X2611P WNN=5000CCA0025D2E66 30

Total Drives: 15
Enclosure index: 3
Name: JBOD 3
WNN: 0186E0501000002D
Flag: 2
SP temp: 49.0

Backend Drives:
0: D0.45.0 70007 MB 512 SN= J5WMKNVK WNN=5000CCA00256FCE5 30
1: D0.46.0 70007 MB 512 SN= J5X1N7TK WNN=5000CCA0025CEF66 31
2: D0.47.0 70007 MB 512 SN= J5WMK97K WNN=5000CCA00256FB7D 29
3: D0.48.0 70007 MB 512 SN= J5WMKNLK WNN=5000CCA00256FCDD 29
4: D0.49.0 70007 MB 512 SN= J5X0EGRK WNN=5000CCA0025C6197 31
5: D0.50.0 70007 MB 512 SN= J5WX45JJ WNN=5000CCA0025AE194 30
6: D0.51.0 70007 MB 512 SN= J5WX43ZJ WNN=5000CCA0025AE164 30

```

7: D0.52.0 70007 MB 512 SN= J5X0EEUK WWN=5000CCA0025C617B 32
8: D0.53.0 70007 MB 512 SN= J5WX454J WWN=5000CCA0025AE188 29
9: D0.54.0 70007 MB 512 SN= J5WMDK3K WWN=5000CCA00256FBD6 31
10: D0.55.0 70007 MB 512 SN= J5X1STHK WWN=5000CCA0025CFCAF 31
11: D0.56.0 70007 MB 512 SN= J5WMKHYK WWN=5000CCA00256FC4D 31
12: D0.57.0 70007 MB 512 SN= J5X1NAHK WWN=5000CCA0025CEFBA 31
13: D0.58.0 70007 MB 512 SN= J5X1N2RK WWN=5000CCA0025CECE9 30
14: D0.59.0 70007 MB 512 SN= J5WMMKOK WWN=5000CCA00256FCAC 31

```

Total Drives: 15

: raid; report

==== rtime =====

14:33:57, Wednesday, 03/07/2007

==== Begin of System Status Report =====

=== iqversions ===

iQ RMON firmware : 110-000068-060809156000

iQ MAIN firmware : 110-000066-070207146040

iQ EMIO firmware : 110-000067-061026160000

=== version ===

PR6040-SV (IQ2880) (SP20)

Created on Wed Feb 7 14:18:18 PST 2007 by iQstor Networks Inc.

[mips-sgi-irix-gcc -O3 -G 0] []

=== Enclosure ID ===

01E2144F10000029

=== Controller Memory ===

2 2 2 124 1073741824 353220416 234461824 134217728 0 0 0 0

=== Backend Drives ===

```

0.0.0 HITACHI HUS151473VLF400 F42T J5YRXJNK 41991 5 840
143374804 512 15000 0 31
0.1.0 HITACHI HUS151473VLF400 F42T J5YMP20K 41991 5 840
143374804 512 15000 0 31
0.2.0 HITACHI HUS151473VLF400 F42T JCV0JR4K 41991 5 840
143374804 512 15000 0 33
0.3.0 HITACHI HUS151473VLF400 F42T J5YVWU6K 41991 5 840
143374804 512 15000 0 33
0.4.0 HITACHI HUS151473VLF400 F42T J5YTDSSK 41991 5 840
143374804 512 15000 0 33
0.5.0 HITACHI HUS151473VLF400 F42T J5Y9B16K 41991 5 840
143374804 512 15000 0 31
0.6.0 HITACHI HUS151473VLF400 F42T J5YBLWUK 41991 5 840
143374804 512 15000 0 33
0.7.0 HITACHI HUS151473VLF400 F42T J5YVJJPK 41991 5 840
143374804 512 15000 0 32
0.8.0 HITACHI HUS151473VLF400 F42T J5YBGGHK 41991 5 840
143374804 512 15000 0 31
0.9.0 HITACHI HUS151473VLF400 F42T J5YJZP0K 41991 5 840
143374804 512 15000 0 33
0.10.0 HITACHI HUS151473VLF400 F42T J5YH45YK 41991 5 840
143374804 512 15000 0 33
0.11.0 HITACHI HUS151473VLF400 F42T J5YMMWH8K 41991 5 840
143374804 512 15000 0 33
0.12.0 HITACHI HUS151473VLF400 F42T J5YVT2VK 41991 5 840
143374804 512 15000 0 33
0.13.0 HITACHI HUS151473VLF400 F42T J5YSWZLK 41991 5 840
143374804 512 15000 0 31
0.14.0 HITACHI HUS151473VLF400 F42T J5YTE2AK 41991 5 840
143374804 512 15000 0 33
0.15.0 HITACHI HUS151473VLF400 F42T J5W35K8P 41991 5 840
143374804 512 15000 0 32
0.16.0 HITACHI HUS151473VLF400 F42T J5WMMK4K 41991 5 840
143374804 512 15000 0 31
0.17.0 HITACHI HUS151473VLF400 F42T J5X1SPEK 41991 5 840
143374804 512 15000 0 30
0.18.0 HITACHI HUS151473VLF400 F42T J5W8YNVK 41991 5 840

```

```

143374804 512 15000 0 32
0.19.0 HITACHI HUS151473VLF400 F42T J5WWUX4P 41991 5 840
143374804 512 15000 0 31
0.20.0 HITACHI HUS151473VLF400 F42T J5WMLWK 41991 5 840
143374804 512 15000 0 30
0.21.0 HITACHI HUS151473VLF400 F42T J5X1N0MK 41991 5 840
143374804 512 15000 0 32
0.22.0 HITACHI HUS151473VLF400 F42T J5WMMKHJK 41991 5 840
143374804 512 15000 0 31
0.23.0 HITACHI HUS151473VLF400 F42T J5X25V2P 41991 5 840
143374804 512 15000 0 31
0.24.0 HITACHI HUS151473VLF400 F42T J5W8YVJK 41991 5 840
143374804 512 15000 0 32
0.25.0 HITACHI HUS151473VLF400 F42T J5WMMKDRK 41991 5 840
143374804 512 15000 0 33
0.26.0 HITACHI HUS151473VLF400 F42T J5WWUUPP 41991 5 840
143374804 512 15000 0 31
0.27.0 HITACHI HUS151473VLF400 F42T J5WMMKG2K 41991 5 840
143374804 512 15000 0 30
0.28.0 HITACHI HUS151473VLF400 F42T J5W35P9P 41991 5 840
143374804 512 15000 0 31
0.29.0 HITACHI HUS151473VLF400 F42T J5W35NZP 41991 5 840
143374804 512 15000 0 32
0.30.0 HITACHI HUS151473VLF400 F42T J5WWUVSP 41991 5 840
143374804 512 15000 0 32
0.31.0 HITACHI HUS151473VLF400 F42T J5WWUV5P 41991 5 840
143374804 512 15000 0 31
0.32.0 HITACHI HUS151473VLF400 F42T J5WWUX8P 41991 5 840
143374804 512 15000 0 30
0.33.0 HITACHI HUS151473VLF400 F42T J5X25Z0P 41991 5 840
143374804 512 15000 0 32
0.34.0 HITACHI HUS151473VLF400 F42T J5X25W6P 41991 5 840
143374804 512 15000 0 31
0.35.0 HITACHI HUS151473VLF400 F42T J5X1N9LK 41991 5 840
143374804 512 15000 0 33
0.36.0 HITACHI HUS151473VLF400 F42T J5W0RWKK 41991 5 840
143374804 512 15000 0 33
0.37.0 HITACHI HUS151473VLF400 F42T J5W0RTGK 41991 5 840
143374804 512 15000 0 31
0.38.0 HITACHI HUS151473VLF400 F42T J5W18WHP 41991 5 840
143374804 512 15000 0 30
0.39.0 HITACHI HUS151473VLF400 F42T J5WWUXRP 41991 5 840
143374804 512 15000 0 32
0.40.0 HITACHI HUS151473VLF400 F42T J5X1N34K 41991 5 840
143374804 512 15000 0 32
0.41.0 HITACHI HUS151473VLF400 F42T J5X25YBP 41991 5 840
143374804 512 15000 0 31
0.42.0 HITACHI HUS151473VLF400 F42T J5W22VJK 41991 5 840
143374804 512 15000 0 32
0.43.0 HITACHI HUS151473VLF400 F42T J5WWUUJP 41991 5 840
143374804 512 15000 0 32
0.44.0 HITACHI HUS151473VLF400 F42T J5X2611P 41991 5 840
143374804 512 15000 0 31
0.45.0 HITACHI HUS151473VLF400 F42T J5WMMKNVK 41991 5 840
143374804 512 15000 0 30
0.46.0 HITACHI HUS151473VLF400 F42T J5X1N7TK 41991 5 840
143374804 512 15000 0 31
0.47.0 HITACHI HUS151473VLF400 F42T J5WMMK97K 41991 5 840
143374804 512 15000 0 30
0.48.0 HITACHI HUS151473VLF400 F42T J5WMMKNLK 41991 5 840
143374804 512 15000 0 29
0.49.0 HITACHI HUS151473VLF400 F42T J5X0EGRK 41991 5 840
143374804 512 15000 0 31
0.50.0 HITACHI HUS151473VLF400 F42T J5WX45JJ 41991 5 840
143374804 512 15000 0 30
0.51.0 HITACHI HUS151473VLF400 F42T J5WX43ZJ 41991 5 840

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143374804 512 15000 0 30
0.52.0 HITACHI HUS151473VLF400 F42T J5X0EEUK 41991 5 840
143374804 512 15000 0 32
0.53.0 HITACHI HUS151473VLF400 F42T J5WX454J 41991 5 840
143374804 512 15000 0 30
0.54.0 HITACHI HUS151473VLF400 F42T J5WMKD3K 41991 5 840
143374804 512 15000 0 31
0.55.0 HITACHI HUS151473VLF400 F42T J5X1STHK 41991 5 840
143374804 512 15000 0 32
0.56.0 HITACHI HUS151473VLF400 F42T J5WMKHYK 41991 5 840
143374804 512 15000 0 31
0.57.0 HITACHI HUS151473VLF400 F42T J5X1NAHK 41991 5 840
143374804 512 15000 0 31
0.58.0 HITACHI HUS151473VLF400 F42T J5X1N2RK 41991 5 840
143374804 512 15000 0 31
0.59.0 HITACHI HUS151473VLF400 F42T J5WMMKOK 41991 5 840
143374804 512 15000 0 31
=== mconf ===
0 0 126 1,2,3,4,5,6,7,8,9
0 1 126 1,2,3,4,5,6,7,8,9
1 0 126 1,2,3,4,5,6,7,8,9
1 1 126 1,2,3,4,5,6,7,8,9
=== hconf ===
0 0 5
0 1 5
1 0 5
1 1 5
=== rconf -v ===
Name: R0_001Type: 0Flags: Active,Used,NoRfscck,Manboot,BFailDrop,Mirrored
Raid Size : 2117195520 (1009.5574GB) IOSize : 65536
Cache Size: 0 ( 0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 141146452 (67.3038GB)
Backends:
D0.15.0,D0.16.0,D0.17.0,D0.18.0,D0.19.0,D0.20.0,D0.21.0,D0.22.0,D0.23.0,D
0.24.0,D0.25.0,D0.26.0,D0.27.0,D0.28.0,D0.29.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 29438976 ( 28.075MB)Max procs: C0 - 64, C1 - 64

Name: R0_002Type: 0Flags: Active,Used,NoRfscck,Manboot,BFailDrop,Mirrored
Raid Size : 2117195520 (1009.5574GB) IOSize : 65536
Cache Size: 0 ( 0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 141146452 (67.3038GB)
Backends:
D0.30.0,D0.31.0,D0.32.0,D0.33.0,D0.34.0,D0.35.0,D0.36.0,D0.37.0,D0.38.0,D
0.39.0,D0.40.0,D0.41.0,D0.42.0,D0.43.0,D0.44.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 29438976 ( 28.075MB)Max procs: C0 - 64, C1 - 64

Name: R0_003Type: 0Flags:
Inactive,Used,NoRfscck,Manboot,BFailDrop,Mirrored
Raid Size : 2117195520 (1009.5574GB) IOSize : 65536
Cache Size: 0 ( 0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 141146452 (67.3038GB)
Backends:
D0.45.0,D0.46.0,D0.47.0,D0.48.0,D0.49.0,D0.50.0,D0.51.0,D0.52.0,D0.53.0,D
0.54.0,D0.55.0,D0.56.0,D0.57.0,D0.58.0,D0.59.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 29438976 ( 28.075MB)Max procs: C0 - 64, C1 - 64

Name: R0_000Type: 0Flags: Active,Used,NoRfscck,Manboot,BFailDrop,Mirrored

```

```

Raid Size : 2117195520 (1009.5574GB) IOSize : 65536
Cache Size: 0 ( 0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 141146452 (67.3038GB)
Backends:
D0.3.0,D0.2.0,D0.1.0,D0.0.0,D0.7.0,D0.6.0,D0.5.0,D0.4.0,D0.11.0,D0.10.0,D
0.9.0,D0.8.0,D0.14.0,D0.13.0,D0.12.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 29438976 ( 28.075MB)Max procs: C0 - 64, C1 - 64

Name: RC_000Type: 7Flags:
Active,Used,NoRfscck,Autoboot,BFailDrop,BFailR7Prot,Mirrored
Raid Size : 2117195520 (1009.5574GB) IOSize : 65536
Cache Size: 1048576 ( 1.000MB) DFLTIO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 2117195520 (1009.5574GB)
Backends: RR0_000
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 39041776 ( 37.233MB)Max procs: C0 - 80, C1 - 80

Name: RC_001Type: 7Flags:
Active,Used,NoRfscck,Autoboot,BFailDrop,BFailR7Prot,Mirrored
Raid Size : 2117195520 (1009.5574GB) IOSize : 65536
Cache Size: 1048576 ( 1.000MB) DFLTIO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 2117195520 (1009.5574GB)
Backends: RR0_001
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 39041776 ( 37.233MB)Max procs: C0 - 80, C1 - 80

Name: RC_002Type: 7Flags:
Active,Used,NoRfscck,Autoboot,BFailDrop,BFailR7Prot,Mirrored
Raid Size : 2117195520 (1009.5574GB) IOSize : 65536
Cache Size: 1048576 ( 1.000MB) DFLTIO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 2117195520 (1009.5574GB)
Backends: RR0_002
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 39041776 ( 37.233MB)Max procs: C0 - 80, C1 - 80

Name: RC_003Type: 7Flags:
Active,Used,NoRfscck,Autoboot,BFailDrop,BFailR7Prot,Mirrored
Raid Size : 2117195520 (1009.5574GB) IOSize : 65536
Cache Size: 1048576 ( 1.000MB) DFLTIO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 2117195520 (1009.5574GB)
Backends: RR0_003
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 39041776 ( 37.233MB)Max procs: C0 - 80, C1 - 80
=== spool ===
=== License Info ===
Feature name: Permanent: Volume Manager based Virtualization (0/0)
Expiration date: None

SUCCESS:
=== sfsinfo ===
SUCCESS: RC_000 1008 0 RC_000 13:13:48, Friday, 01/23/2056
13:13:48, FRiday, 01/23/2056 I RC_000
SUCCESS: RC_001 1008 0 RC_001 13:14:04, Friday, 01/23/2056
13:14:04, FRiday, 01/23/2056 I RC_001
SUCCESS: RC_002 1008 0 RC_002 13:14:21, Friday, 01/23/2056

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```

13:14:21, Friday, 01/23/2056      1      RC_002
SUCCESS: RC_003 1008 0      RC_003 13:14:40, Friday, 01/23/2056
13:14:40, Friday, 01/23/2056      I      RC_003
EOC
=== vdfinfo ===
SUCCESS: V9999 RC_000      Normal      Normal      0      126 rw D 0 1
OK c0p0,c1p0,c0p1,c1p1 *V9999

SUCCESS: V0000 RC_000      Normal      Normal      1032128 0      rw U 0 0
OK c0p0,c1p0 *VD0

SUCCESS: V0001 RC_001      Normal      Normal      1032128 1      rw U 0 0
OK c0p0,c1p0 *VD1

SUCCESS: V0002 RC_002      Normal      Normal      1032128 2      rw U 0 0
OK c0p0,c1p0 *VD2

SUCCESS: V0003 RC_003      Normal      Normal      1032128 3      rw U 0 0
OK c0p0,c1p0 *VD3

EOC
=== vdmask -print ===
SUCCESS: V0000 wwn = NULL      masking: OFF ilun: 000
SUCCESS: V0001 wwn = NULL      masking: OFF ilun: 001
SUCCESS: V0002 wwn = NULL      masking: OFF ilun: 002
SUCCESS: V0003 wwn = NULL      masking: OFF ilun: 003
EOC
=== vdmmap -print ===
SUCCESS: No valid entries in lun mapping table.
EOC
=== ispstate h0 ===
Link rate is 2 Gbit/sec, write_blocks: 0
Ready for SCSI-FCP request (3)
=== getwwn h0 ===
SUCCESS: 21.00.00.09.2B.E2.14.29, 20.00.00.09.2B.E2.14.29,
SUCCESS: 10.00.08.00.0B.56.09.25, 10.00.08.00.0B.56.09.25,
EOC
=== getids h0 ===
0x000001, 0x00, 10.00.08.00.0B.56.09.25, 10.00.08.00.0B.56.09.25
EOC
=== ispstate h1 ===
Link rate is 2 Gbit/sec, write_blocks: 0
Loss of Sync (4)
=== getwwn h1 ===
SUCCESS: 22.00.00.09.2B.E2.14.29, 20.00.00.09.2B.E2.14.29,
EOC
=== getids h1 ===
EOC
=== vdrep -gui ===
EOC
=== plink ===
=== snapinfo ===
EOC
=== printenv ===
SLOG_MBANK_FILE_0 = DHUS151473V_J5YRXJNK/syslog
SLOG_MBANK_FILE_1 = DHUS151473V_J5YMP20K/syslog
EncName = TPCC-I3-14
TCP_UNAME = otbSBfAKRAWDlp6rvIWgbA
TCP_UPASS = 5ArkDuKl1OHgzbfGG16XYA
BOXID = CB30D0000640000
MANUF = iQstor
MODEL = iQ2880
t = 1
numHDs = 70
smartEnabled = 0
scsi_write_thru = 1 Cache Disabled

```

```

CacheMirror = 1 Cache Disabled
_SN_R0_001 = E2144F1000000100
_SN_R0_002 = E2144F1000000200
_SN_R0_003 = E2144F1000000300
DNS1 = 0.0.0.0
DNS2 = 0.0.0.0
_SN_R0_000 = E2144F1000000400
_SN_RC_000 = E2144F1000000500
_SN_RC_001 = E2144F1000000600
_SN_RC_002 = E2144F1000000700
_SN_RC_003 = E2144F1000000800
===== End of System Status Report =====
: raid;

```

Database_log.txt

```

Number of enclosures: 2
Enclosure index: 0
      Name: LOG1-7-8
      WWN: 010369BE0E0000F6
      Flag: 1
      SP temp: 51.5
Backend Drives:
0: D0.3.0 140205 MB 512 SN= JAVMX8VK WWN=5000CCA002490D3B 32
1: D0.2.0 140205 MB 512 SN= JAVJ7J7K WWN=5000CCA00247622E 31
2: D0.1.0 140205 MB 512 SN= JAVDZ0DK WWN=5000CCA00245E51E 32
3: D0.0.0 140205 MB 512 SN= JAVMX70K WWN=5000CCA002490D02 31
4: D0.7.0 140205 MB 512 SN= JAVJLY6K WWN=5000CCA002478D0B 31
5: D0.6.0 140205 MB 512 SN= JAVMDD7K WWN=5000CCA00248D194 32
6: D0.5.0 140205 MB 512 SN= JAVNSKNK WWN=5000CCA002496FE6 32
7: D0.4.0 140205 MB 512 SN= JAVMHR8K WWN=5000CCA00248DE0E 31
8: D0.11.0 140205 MB 512 SN= JAVJM8XK WWN=5000CCA002478E57 33
9: D0.10.0 140205 MB 512 SN= JAVJMHUK WWN=5000CCA002478F2D 32
10: D0.9.0 140205 MB 512 SN= JAVMMD4K WWN=5000CCA00248D26A 32
11: D0.8.0 140205 MB 512 SN= JAVMBVSK WWN=5000CCA00248CF95 31
12: D0.14.0 140205 MB 512 SN= JAVJ7V1K WWN=5000CCA00247635E 32
13: D0.13.0 140205 MB 512 SN= JAVMSEKK WWN=5000CCA00248FB08 31
14: D0.12.0 140205 MB 512 SN= JAVMX5SK WWN=5000CCA002490CDB 31

Total Drives: 15
Enclosure index: 1
      Name: JBOD 1
      WWN: 015C53F10F000014
      Flag: 2
      SP temp: 51.5
Backend Drives:
0: D1.0.0 140205 MB 512 SN= JAVU0KWK WWN=5000CCA0024B5F71 32
1: D1.1.0 140205 MB 512 SN= JAVN5JLK WWN=5000CCA002492C33 32
2: D1.2.0 140205 MB 512 SN= JAVN5DMK WWN=5000CCA002492BB8 32
3: D1.3.0 140205 MB 512 SN= JAVU1L3K WWN=5000CCA0024B6339 31
4: D1.4.0 140205 MB 512 SN= JAVN5YXK WWN=5000CCA002492DD0 31
5: D1.5.0 140205 MB 512 SN= JAVU0P4K WWN=5000CCA0024B5FD6 31
6: D1.6.0 140205 MB 512 SN= JAVMHPWK WWN=5000CCA00248DE02 31
7: D1.7.0 140205 MB 512 SN= JAVS78XK WWN=5000CCA00248FE4A 31
8: D1.8.0 140205 MB 512 SN= JAVMHMVK WWN=5000CCA00248DDC3 32
9: D1.9.0 140205 MB 512 SN= JAVMJGAK WWN=5000CCA00248E0D9 31
10: D1.10.0 140205 MB 512 SN= JAVMJGJK WWN=5000CCA00248E0DF 31
11: D1.11.0 140205 MB 512 SN= JAVN5NYK WWN=5000CCA002492CBA 34
12: D1.12.0 140205 MB 512 SN= JAVL23PK WWN=5000CCA0024836A2 30
13: D1.13.0 140205 MB 512 SN= JAVMDB4K WWN=5000CCA00248D172 32
14: D1.14.0 140205 MB 512 SN= JAVMHT5K WWN=5000CCA00248DE49 30

```

```

Total Drives: 15
: raid; report
==== rtime =====
11:02:03, Tuesday, 03/16/2056
==== Begin of System Status Report =====
=== iqversions ===
iQ RMON firmware : 110-000023-060929156010
iQ MAIN firmware : 110-000066-070207146040
iQ EMIO firmware : 110-000067-061026160000
=== version ===
PR6040-SV (IQ2880) (SP20)
Created on Wed Feb 7 14:18:18 PST 2007 by iQstor Networks Inc.
[mips-sgi-irix-gcc -O3 -G 0] []
=== Enclosure ID ===
010369BE0E0000F6
=== Controller Memory ===
2 2 2 124 2147483648 352892064 235781792 134217728 2147483648 352857760
236277216 134217728
=== Backend Drives ===
0.0.0 HITACHI HUS151414VLF400 F42T JAVMX70K 41991 10 840
287140276 512 15000 0 32
0.1.0 HITACHI HUS151414VLF400 F42T JAVDZ0DK 41991 10 840
287140276 512 15000 0 31
0.2.0 HITACHI HUS151414VLF400 F42T JAVJ7J7K 41991 10 840
287140276 512 15000 0 32
0.3.0 HITACHI HUS151414VLF400 F42T JAVMX8VK 41991 10 840
287140276 512 15000 0 32
0.4.0 HITACHI HUS151414VLF400 F42T JAVMHR8K 41991 10 840
287140276 512 15000 0 31
0.5.0 HITACHI HUS151414VLF400 F42T JAVNSKNK 41991 10 840
287140276 512 15000 0 32
0.6.0 HITACHI HUS151414VLF400 F42T JAVMDD7K 41991 10 840
287140276 512 15000 0 32
0.7.0 HITACHI HUS151414VLF400 F42T JAVJLY6K 41991 10 840
287140276 512 15000 0 31
0.8.0 HITACHI HUS151414VLF400 F42T JAVMBVSK 41991 10 840
287140276 512 15000 0 31
0.9.0 HITACHI HUS151414VLF400 F42T JAVMDM4K 41991 10 840
287140276 512 15000 0 32
0.10.0 HITACHI HUS151414VLF400 F42T JAVJMHUK 41991 10 840
287140276 512 15000 0 32
0.11.0 HITACHI HUS151414VLF400 F42T JAVJM8XK 41991 10 840
287140276 512 15000 0 32
0.12.0 HITACHI HUS151414VLF400 F42T JAVMX5SK 41991 10 840
287140276 512 15000 0 31
0.13.0 HITACHI HUS151414VLF400 F42T JAVMSEKK 41991 10 840
287140276 512 15000 0 31
0.14.0 HITACHI HUS151414VLF400 F42T JAVJ7V1K 41991 10 840
287140276 512 15000 0 32
1.0.0 HITACHI HUS151414VLF400 F42T JAVU0KWK 41991 10 840
287140276 512 15000 0 32
1.1.0 HITACHI HUS151414VLF400 F42T JAVN5JLK 41991 10 840
287140276 512 15000 0 32
1.2.0 HITACHI HUS151414VLF400 F42T JAVN5DMK 41991 10 840
287140276 512 15000 0 32
1.3.0 HITACHI HUS151414VLF400 F42T JAVU1L3K 41991 10 840
287140276 512 15000 0 31
1.4.0 HITACHI HUS151414VLF400 F42T JAVN5YXK 41991 10 840
287140276 512 15000 0 31
1.5.0 HITACHI HUS151414VLF400 F42T JAVU0P4K 41991 10 840
287140276 512 15000 0 32
1.6.0 HITACHI HUS151414VLF400 F42T JAVMHPWK 41991 10 840
287140276 512 15000 0 31
1.7.0 HITACHI HUS151414VLF400 F42T JAVS78XK 41991 10 840
287140276 512 15000 0 31
1.8.0 HITACHI HUS151414VLF400 F42T JAVMHMVK 41991 10 840

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287140276 512 15000 0 32
1.9.0 HITACHI HUS151414VLF400 F42T JAVMJGAK 41991 10 840
287140276 512 15000 0 31
1.10.0 HITACHI HUS151414VLF400 F42T JAVMJGJK 41991 10 840
287140276 512 15000 0 31
1.11.0 HITACHI HUS151414VLF400 F42T JAVN5NYK 41991 10 840
287140276 512 15000 0 34
1.12.0 HITACHI HUS151414VLF400 F42T JAVL23PK 41991 10 840
287140276 512 15000 0 31
1.13.0 HITACHI HUS151414VLF400 F42T JAVMDB4K 41991 10 840
287140276 512 15000 0 32
1.14.0 HITACHI HUS151414VLF400 F42T JAVMHT5K 41991 10 840
287140276 512 15000 0 30
=== mconf ===
0 0 126 1,2,3,4,5,6,7,8,9
0 1 126 1,2,3,4,5,6,7,8,9
1 0 126 1,2,3,4,5,6,7,8,9
1 1 126 1,2,3,4,5,6,7,8,9
=== hconf ===
0 0 5
0 1 5
1 0 5
1 1 5
=== rconf -v ===
Name: R1_000Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 ( 0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D0.3.0,D0.2.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 ( 27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_001Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 ( 0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D0.1.0,D0.0.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 ( 27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_002Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 ( 0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D0.7.0,D0.6.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 ( 27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_003Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 ( 0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D0.5.0,D0.4.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE

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Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_004Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D0.11.0,D0.10.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_005Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D0.9.0,D0.8.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_006Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D0.14.0,D1.0.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_007Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D1.1.0,D1.2.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_008Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D1.3.0,D1.4.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_009Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D1.5.0,D1.6.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE

Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_010Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D1.7.0,D1.8.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_011Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D1.9.0,D1.10.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R1_012Type: 1Flags:
Active,Used,Rfscck,Manboot,UseSpares,BFailDrop,Mirrored
Raid Size : 284911872 (135.8565GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911924 (135.8565GB)
Backends: D1.11.0,D1.12.0
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 28453888 (27.135MB)Max procs: C0 - 68, C1 - 68

Name: R0_000Type: 0Flags: Active,Used,NoRfscck,Manboot,BFailDrop,Mirrored
Raid Size : 3703854336 (1766.1353GB) IOSize : 65536
Cache Size: 0 (0.000MB)IO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 284911872 (135.8565GB)
Backends:
RR1_000,RR1_001,RR1_002,RR1_003,RR1_004,RR1_005,RR1_006,RR1_007,RR1_008,R
R1_009,RR1_010,RR1_011,RR1_012
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 84810240 (80.881MB)Max procs: C0 - 272, C1 - 272

Name: RC_000Type: 7Flags:
Active,Used,NoRfscck,Autooboot,BFailDrop,BFailR7Prot,Mirrored
Raid Size : 3703854336 (1766.1353GB) IOSize : 65536
Cache Size: 1048576 (1.000MB) DFLTIO Mode: read-write
Queues: 16Host Interface(s): 2 M0.0.0 M1.0.0
BackendSize: 3703854336 (1766.1353GB)
Backends: RR0_000
Additional stargd args: {}
Multi host interface mode: ACTIVE-ACTIVE
Mem usage estimate: 39041776 (37.233MB)Max procs: C0 - 80, C1 - 80
=== spool ===
=== License Info ===
Feature name: Permanent: Volume Manager based Virtualization (0/0)
Expiration date: None

SUCCESS:
=== sfsinfo ===
SUCCESS: RC_000 1766 0 RC_000 16:36:10, Monday, 03/08/2056

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16:36:10, Monday, 03/08/2056      1      RC_000
EOC
=== vdfinfo ===
SUCCESS: V9999 RC 000      Normal      Normal      0      126 rw D 0 1
OK   c0p0,c1p0,c0p1,c1p1 *V9999

SUCCESS: V0000 RC 000      Normal      Normal      1808320  0   rw U 0 0
OK   c0p0,c1p0 *LOGIT

EOC
=== vdmask -print ===
SUCCESS: V0000 wwn = NULL      masking: OFF ilun: 000
EOC
=== vdmap -print ===
SUCCESS: No valid entries in lun mapping table.
EOC
=== ispstate h0 ===
Link rate is 2 Gbit/sec, write_blocks: 0
Ready for SCSI-FCP request (3)
=== getwwn h0 ===
SUCCESS: 21.00.00.09.2B.03.69.F6, 20.00.00.09.2B.03.69.F6,
SUCCESS: 10.00.08.00.0B.56.25.8C, 10.00.08.00.0B.56.25.8C,
EOC
=== getids h0 ===
0x0000001, 0x00, 10.00.08.00.0B.56.25.8C, 10.00.08.00.0B.56.25.8C
EOC
=== ispstate h1 ===
Link rate is 1 Gbit/sec, write_blocks: 0
Loss of Sync (4)
=== getwwn h1 ===
SUCCESS: 22.00.00.09.2B.03.69.F6, 20.00.00.09.2B.03.69.F6,
EOC
=== getids h1 ===
EOC
=== vdrep -gui ===
EOC
=== plink ===
=== snapinfo ===
EOC
=== printenv ===
SLOG_MBANK_FILE_0 = DHUS151414V_JAVMX70K/syslog
SLOG_MBANK_FILE_1 = DHUS151414V_JAVDZ0DK/syslog
MANUF = iQstor
EncName = LOG1-7-8
TCP_UNAME = otbSBfAKRAWDlp6rvIWgbA
TCP_UPASS = 5ARKDuK1lOHgzbfGG16XYA
BOXID = 69BE0E0000F60000
DNS1 = 0.0.0.0
DNS2 = 0.0.0.0
smartEnabled = 0
scsi write thru = 0 write cache enabled
_SN_R1_000 = 0369BE0E00000000
_SN_R1_001 = 0369BE0E000000100
_SN_R1_002 = 0369BE0E000000200
_SN_R1_003 = 0369BE0E000000300
_SN_R1_004 = 0369BE0E000000400
_SN_R1_005 = 0369BE0E000000500
_SN_R1_006 = 0369BE0E000000600
_SN_R1_007 = 0369BE0E000000700
_SN_R1_008 = 0369BE0E000000800
_SN_R1_009 = 0369BE0E000000900
_SN_R1_010 = 0369BE0E000000A00
_SN_R1_011 = 0369BE0E000000B00
_SN_R1_012 = 0369BE0E000000C00
_SN_R0_000 = 0369BE0E000000D00
_SN_RC_000 = 0369BE0E000000E00

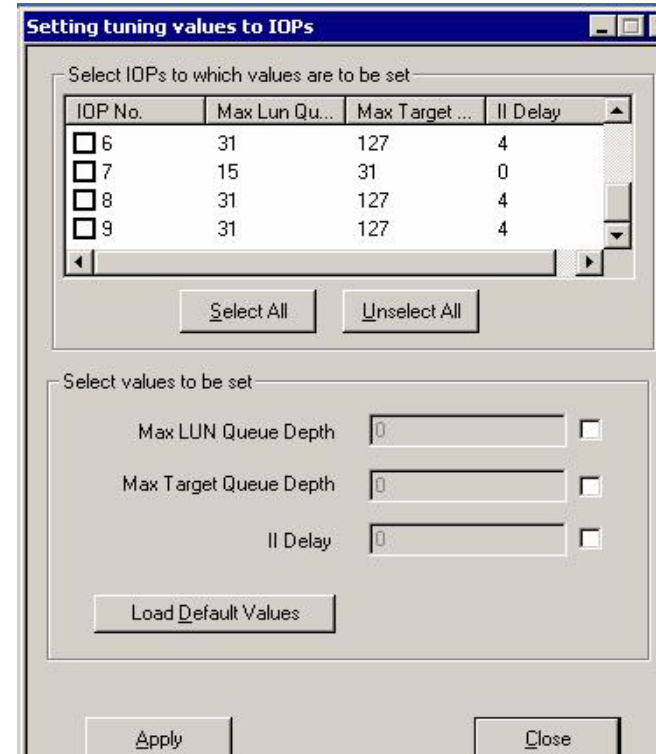
```

```

===== End of System Status Report =====
: raid;

```

Fibre Channel HBAUtility Settings



Windows Enterprise Server Configuration Information

```

System Information report written at: 03/07/07 19:53:21
System Name: UNISYS-MV-TPCC
[System Summary]

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Item Value
OS Name Microsoft (R) Windows (R) Server 2003 Enterprise x64 Edition

```

Version 5.2.3790 Service Pack 1 Build 3790
Other OS Description R2
OS ManufacturerMicrosoft Corporation
System NameUNISYS-MV-TPCC
System ManufacturerUNISYS
System ModelES7000-ONE
System Typex64-based PC
ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
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ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
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ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
ProcessorEM64T Family 15 Model 6 Stepping 8 GenuineIntel ~3400 Mhz
BIOS Version/DatePhoenix Technologies LTD BIOS Release 2.53.001, 10/10/2006
SMBIOS Version2.31
Windows DirectoryC:\WINDOWS
System DirectoryC:\WINDOWS\system32
Boot Device\Device\HarddiskVolume1
Locale United States
Hardware Abstraction LayerVersion = "5.2.3790.1830 (srv03_sp1_rtm.050324-1447) "
User NameUNISYS-MV-TPCC\Administrator
Time ZonePacific Standard Time
Total Physical Memory262,014.42 MB
Available Physical Memory2.76 GB
Total Virtual Memory252.41 GB
Available Virtual Memory3.71 GB
Page File Space2.00 GB
Page FileC:\pagefile.sys
[Hardware Resources]
[Conflicts/Sharing]
ResourceDevice
I/O Port 0x00000000-0x00001FFFPCI bus
I/O Port 0x00000000-0x00001FFFdirect memory access controller

I/O Port 0x00002000-0x00002FFFPCI bus
I/O Port 0x00002000-0x00002FFFIntel(R) P64H2 PCI to PCI Bridge - 1460
I/O Port 0x00002000-0x00002FFFLSI Adapter, SAS 3000 series, 8-port with 1068 -StorPort
IRQ 10 Intel(R) 82801DB/DBM SMBus Controller - 24C3
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
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IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
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IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462
Memory Address 0xCCF00000-0xCCFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xCCF00000-0xCCFFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xDA000000-0xDADFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xDA000000-0xDADFFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xDA000000-0xDADFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
Memory Address 0xE6F00000-0xE6FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xE6F00000-0xE6FFFFFFPCI standard PCI-to-PCI bridge
I/O Port 0x00006000-0x0000FFFFPCI bus
I/O Port 0x00006000-0x0000FFFFIntel(R) P64H2 PCI to PCI Bridge - 1460
I/O Port 0x00003000-0x00004FFFPCI bus
I/O Port 0x00003000-0x00004FFFIntel(R) P64H2 PCI to PCI Bridge - 1460
I/O Port 0x00003000-0x00004FFFIntel(R) PRO/1000 MT Dual Port Network Connection
Memory Address 0xCE000000-0xCEFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xCE000000-0xCEFFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xCE000000-0xCEFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
Memory Address 0xD2000000-0xD5FFFFFFPCI bus
Memory Address 0xD2000000-0xD5FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460
Memory Address 0xD2000000-0xD5FFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xD2000000-0xD5FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
Memory Address 0xD6000000-0xD8FFFFFFPCI bus
Memory Address 0xD6000000-0xD8FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460


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Memory Address 0xD6000000-0xD8FFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xD6000000-0xD8FFFFFFUnisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xF1E00000-0xF1EFFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xF1E00000-0xF1EFFFFFFPCI standard PCI-to-PCI bridge

Memory Address 0xEF000000-0xEFFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xEF000000-0xEFFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xEF000000-0xEFFFFFFUnisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xD4F00000-0xD4FFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xD4F00000-0xD4FFFFFFPCI standard PCI-to-PCI bridge

Memory Address 0xE2F00000-0xE2FFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xE2F00000-0xE2FFFFFFPCI standard PCI-to-PCI bridge

Memory Address 0xE0000000-0xE2FFFFFFPCI bus
Memory Address 0xE0000000-0xE2FFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xE0000000-0xE2FFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xE0000000-0xE2FFFFFFUnisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xE4000000-0xE4FFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xE4000000-0xE4FFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xE4000000-0xE4FFFFFFUnisys Intelligent Fibre Channel
Fabric Bus Adapter

I/O Port 0x00005000-0x00005FFFPCI bus
I/O Port 0x00005000-0x00005FFFIntel(R) P64H2 PCI to PCI Bridge - 1460

Memory Address 0xA0000-0xFFFFPCI bus
Memory Address 0xA0000-0xFFFFUnisys Console Manager 3

Memory Address 0xF1F00000-0xF1FFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xF1F00000-0xF1FFFFFFPCI standard PCI-to-PCI bridge

Memory Address 0xD0F00000-0xD0FFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xD0F00000-0xD0FFFFFFPCI standard PCI-to-PCI bridge

Memory Address 0xCA000000-0xCCFFFFFFPCI bus
Memory Address 0xCA000000-0xCCFFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xCA000000-0xCCFFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xCA000000-0xCCFFFFFFUnisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xD8F00000-0xD8FFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xD8F00000-0xD8FFFFFFPCI standard PCI-to-PCI bridge

Memory Address 0xDCF00000-0xDCFFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xDCF00000-0xDCFFFFFFPCI standard PCI-to-PCI bridge

Memory Address 0xECF00000-0xECFFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460

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Memory Address 0xECF00000-0xECFFFFFFPCI standard PCI-to-PCI bridge

Memory Address 0xEA000000-0xEDFFFFFFPCI bus
Memory Address 0xEA000000-0xEDFFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xEA000000-0xEDFFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xEA000000-0xEDFFFFFFUnisys Intelligent Fibre Channel
Fabric Bus Adapter

Memory Address 0xEE000000-0xF1FFFFFFPCI bus
Memory Address 0xEE000000-0xF1FFFFFFIntel(R) P64H2 PCI to PCI Bridge -
1460
Memory Address 0xEE000000-0xF1FFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xEE000000-0xF1FFFFFFUnisys Intelligent Fibre Channel
Fabric Bus Adapter

[DMA]

ResourceDevice Status
Channel 4Direct memory access controllerOK

[Forced Hardware]

Device PNP Device ID

[I/O]

ResourceDevice Status
0x00000000-0x00001FFFPCI busOK
0x00000000-0x00001FFFDirect memory access controllerOK
0x00000800-0x0000081FIntel(R) 82801DB/DBM USB Universal Host Controller -
24C2 OK
0x00000820-0x0000083FIntel(R) 82801DB/DBM USB Universal Host Controller -
24C4 OK
0x00000840-0x0000085FIntel(R) 82801DB/DBM USB Universal Host Controller -
24C7 OK
0x00001000-0x000010FFUnisys Console Manager 30K
0x000003B0-0x000003BBUnisys Console Manager 30K
0x000003C0-0x000003DFUnisys Console Manager 30K
0x00001110-0x0000111FUnisys BMCOK
0x00001100-0x0000110FUnisys BMCOK
0x00000010-0x0000001FMotherboard resourcesOK
0x00000024-0x00000025Motherboard resourcesOK
0x00000028-0x00000029Motherboard resourcesOK
0x0000002C-0x0000002DMotherboard resourcesOK
0x00000030-0x00000031Motherboard resourcesOK
0x00000034-0x00000035Motherboard resourcesOK
0x00000038-0x00000039Motherboard resourcesOK
0x0000003C-0x0000003DMotherboard resourcesOK
0x00000050-0x00000053Motherboard resourcesOK
0x00000060-0x00000060Motherboard resourcesOK
0x00000064-0x00000064Motherboard resourcesOK
0x00000072-0x00000077Motherboard resourcesOK
0x00000080-0x00000080Motherboard resourcesOK
0x00000090-0x0000009FMotherboard resourcesOK
0x000000A4-0x000000A5Motherboard resourcesOK
0x000000A8-0x000000A9Motherboard resourcesOK
0x000000AC-0x000000ADMotherboard resourcesOK
0x000000B0-0x000000B5Motherboard resourcesOK
0x000000B8-0x000000B9Motherboard resourcesOK
0x000000BC-0x000000BDMotherboard resourcesOK
0x0000002E-0x0000002FMotherboard resourcesOK
0x000004D0-0x000004D1Motherboard resourcesOK
0x00000CF9-0x00000CF9Motherboard resourcesOK
0x00000D00-0x00000D7FMotherboard resourcesOK

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0x00000E80-0x00000EBFMotherboard resourcesOK
0x00001300-0x0000133FMotherboard resourcesOK
0x000013F8-0x000013FFMotherboard resourcesOK
0x00001454-0x00001454Motherboard resourcesOK
0x000014D4-0x000014D4Motherboard resourcesOK
0x00001500-0x0000157FMotherboard resourcesOK
0x000023F8-0x000023FFMotherboard resourcesOK
0x00000081-0x0000008FDirect memory access controllerOK
0x000000C0-0x000000DEDirect memory access controllerOK
0x000000F0-0x000000FENumeric data processorOK
0x00000020-0x00000021Programmable interrupt controllerOK
0x000000A0-0x000000A1Programmable interrupt controllerOK
0x00000070-0x00000071System CMOS/real time clockOK
0x00000061-0x00000061System speakerOK
0x00000040-0x00000043System timerOK
0x000003F8-0x000003FFCommunications Port (COM1)OK
0x00000880-0x0000088FIntel(R) 82801DB Ultra ATA Storage Controller-24CBOK
0x000001F0-0x000001F7Primary IDE ChannelOK
0x000003F6-0x000003F6Primary IDE ChannelOK
0x00000170-0x00000177Secondary IDE ChannelOK
0x00000376-0x00000376Secondary IDE ChannelOK
0x00000860-0x0000087FIntel(R) 82801DB/DBM SMBus Controller - 24C3OK
0x00002000-0x00002FFFPCI busOK
0x00002000-0x00002FFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0x00002000-0x00002FFFLSI Adapter, SAS 3000 series, 8-port with 1068 -
StorPortOK
0x00003000-0x00004FFFPCI busOK
0x00003000-0x00004FFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0x00003000-0x00004FFFIntel(R) PRO/1000 MT Dual Port Network ConnectionOK
0x00003040-0x0000307FIntel(R) PRO/1000 MT Dual Port Network Connection #2
OK
0x00004000-0x00004FFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0x00005000-0x00005FFFPCI busOK
0x00005000-0x00005FFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0x00006000-0x00006FFFPCI busOK
0x00006000-0x00006FFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK

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[IRQs]

ResourceDevice Status

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IRQ 9 Microsoft ACPI-Compliant SystemOK
IRQ 16 Intel(R) 82801DB/DBM USB Universal Host Controller - 24C2OK
IRQ 19 Intel(R) 82801DB/DBM USB Universal Host Controller - 24C4OK
IRQ 18 Intel(R) 82801DB/DBM USB Universal Host Controller - 24C7OK
IRQ 23 Intel(R) 82801DB/DBM USB 2.0 Enhanced Host Controller - 24CDOK
IRQ 22 Texas Instruments OHCI Compliant IEEE 1394 Host ControllerOK
IRQ 13 Numeric data processorOK
IRQ 8 System CMOS/real time clockOK
IRQ 0 System timerOK
IRQ 4 Communications Port (COM1)OK
IRQ 14 Primary IDE ChannelOK
IRQ 15 Secondary IDE ChannelOK
IRQ 10 Intel(R) 82801DB/DBM SMBus Controller - 24C3OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
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IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK

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IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 10 Intel(R) P64H2 PCI Hot Plug Controller - 1462OK
IRQ 48 LSI Adapter, SAS 3000 series, 8-port with 1068 -StorPortOK
IRQ 72 Intel(R) PRO/1000 MT Dual Port Network ConnectionOK
IRQ 73 Intel(R) PRO/1000 MT Dual Port Network Connection #2OK
IRQ 96 Unisys VI on Emulex LightPulse AdapterOK
IRQ 97 Unisys VI on Emulex LightPulse AdapterOK
IRQ 120 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK
IRQ 144 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK
IRQ 192 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK
IRQ 480 Unisys VI on Emulex LightPulse AdapterOK
IRQ 481 Unisys VI on Emulex LightPulse AdapterOK
IRQ 504 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK
IRQ 576 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK
IRQ 672 Unisys VI on Emulex LightPulse AdapterOK
IRQ 673 Unisys VI on Emulex LightPulse AdapterOK
IRQ 696 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK
IRQ 768 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK
IRQ 864 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK
IRQ 888 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK
IRQ 960 Unisys Intelligent Fibre Channel Fabric Bus AdapterOK

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[Memory]

ResourceDevice Status

```

0xA0000-0xFFFFPCI busOK
0xA0000-0xFFFFFUNISYS Console Manager 3OK
0xF5000000-0xF7FFFFFFPCI busOK
0xF7FFFC00-0xF7FFFFFFIntel(R) 82801DB/DBM USB 2.0 Enhanced Host
Controller - 24CDOK
0xF6000000-0xF6FFFFFFFUNISYS Console Manager 3OK
0xF7EFFF00-0xF7EFFFFUNISYS Console Manager 3OK
0xF7EFE800-0xF7EFFFFTexas Instruments OHCI Compliant IEEE 1394 Host
ControllerOK
0xF7EF8000-0xF7EFBFFFTexas Instruments OHCI Compliant IEEE 1394 Host
ControllerOK
0xF7EFC000-0xF7EFCFFFUnisys BMCOK
0xF7EFD000-0xF7EFDFFFUnisys BMCOK
0xC0000-0xFFFFMotherboard resourcesOK
0xF7FFF800-0xF7FFFBFFIntel(R) 82801DB Ultra ATA Storage Controller-24CBOK
0xF4000000-0xF4FFFFFFPCI busOK
0xFEC02000-0xFEC02FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xFEC03000-0xFEC03FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xF4F00000-0xF4FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xF4FEC000-0xF4FEFFFFLSI Adapter, SAS 3000 series, 8-port with 1068 -
StorPortOK
0xF4FF0000-0xF4FF7FFFUnisys BMCOK
0xF2000000-0xF3FFFFFFPCI busOK
0xFEC04000-0xFEC04FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xF3F00000-0xF3FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xF3FE0000-0xF3FFFFFFIntel(R) PRO/1000 MT Dual Port Network ConnectionOK
0xF3FC0000-0xF3FDFFFIntel(R) PRO/1000 MT Dual Port Network Connection #2
OK
0xFEC05000-0xFEC05FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xF3E00000-0xF3EFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xF2F00000-0xF2FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK

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0xF3EFE000-0xF3EFEFFFUnisys VI on Emulex LightPulse AdapterOK
0xF3EFFC00-0xF3EFFCFFFUnisys VI on Emulex LightPulse AdapterOK
0xF3EFD000-0xF3EFDFFFUnisys VI on Emulex LightPulse AdapterOK
0xF3EFF800-0xF3EFF8FFFUnisys VI on Emulex LightPulse AdapterOK
0xF2FFFC00-0xF2FFFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xEE000000-0xF1FFFFFFPCI busOK
0xEE000000-0xF1FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xEE000000-0xF1FFFFFFPCI standard PCI-to-PCI bridgeOK
0xEE000000-0xF1FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xFEC06000-0xFEC06FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xF1F00000-0xF1FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xF1F00000-0xF1FFFFFFPCI standard PCI-to-PCI bridgeOK
0xEF000000-0xEFFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xEF000000-0xEFFFFFFFPCI standard PCI-to-PCI bridgeOK
0xEF000000-0xEFFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xF1FFF000-0xF1FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xEFFFC000-0xEFFFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xFEC07000-0xFEC07FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xF1E00000-0xF1EFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xF1E00000-0xF1EFFFFFPCI standard PCI-to-PCI bridgeOK
0xF1EFF000-0xF1EFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xEEFFC000-0xEEFFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xEA000000-0xEDFFFFFFPCI busOK
0xEA000000-0xEDFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xEA000000-0xEDFFFFFFPCI standard PCI-to-PCI bridgeOK
0xEA000000-0xEDFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xFEC08000-0xFEC08FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xEAF00000-0xEAFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xEAFFC000-0xEAFFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xFEC09000-0xFEC09FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xECF00000-0xECFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xECF00000-0xECFFFFFFPCI standard PCI-to-PCI bridgeOK
0xECFFF000-0xECFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xEAEFFC00-0xEAEFFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xE7000000-0xE9FFFFFFPCI busOK
0xFEC14000-0xFEC14FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xFEC15000-0xFEC15FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xE8F00000-0xE8FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xE7F00000-0xE7FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xE8FFE000-0xE8FFEFFUnisys VI on Emulex LightPulse AdapterOK
0xE8FFC000-0xE8FFCFFFUnisys VI on Emulex LightPulse AdapterOK
0xE8FFD000-0xE8FFDFFFUnisys VI on Emulex LightPulse AdapterOK
0xE8FFF800-0xE8FFF8FFFUnisys VI on Emulex LightPulse AdapterOK
0xE7FFC000-0xE7FFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xE3000000-0xE6FFFFFFPCI busOK
0xFEC16000-0xFEC16FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xE6F00000-0xE6FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xE6F00000-0xE6FFFFFFPCI standard PCI-to-PCI bridgeOK
0xE4000000-0xE4FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xE4000000-0xE4FFFFFFPCI standard PCI-to-PCI bridgeOK
0xE4000000-0xE4FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xE6FFF000-0xE6FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter

OK
0xE4FFC000-0xE4FFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xFEC17000-0xFEC17FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xE3F00000-0xE3FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xE3FFC000-0xE3FFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xE0000000-0xE2FFFFFFPCI busOK
0xE0000000-0xE2FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xE0000000-0xE2FFFFFFPCI standard PCI-to-PCI bridgeOK
0xE0000000-0xE2FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xFEC18000-0xFEC18FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xE0F00000-0xE0FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xE0FFC000-0xE0FFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xFEC19000-0xFEC19FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xE2F00000-0xE2FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xE2F00000-0xE2FFFFFFPCI standard PCI-to-PCI bridgeOK
0xE2FFF000-0xE2FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xE0EFC000-0xE0EFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xDD000000-0xDFFFFFFFPCI busOK
0xFEC1C000-0xFEC1CFFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xFEC1D000-0xFEC1DFFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xDE000000-0xDEFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xDD000000-0xDDFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xDEFF0000-0xDEFFEFFUnisys VI on Emulex LightPulse AdapterOK
0xDEFFC000-0xDEFFCFFFUnisys VI on Emulex LightPulse AdapterOK
0xDEFFD000-0xDEFFDFFFUnisys VI on Emulex LightPulse AdapterOK
0xDEFF8000-0xDEFF8FFFUnisys VI on Emulex LightPulse AdapterOK
0xDDFFC000-0xDDFFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xD9000000-0xDCFFFFFFPCI busOK
0xFEC1E000-0xFEC1EFFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xDC000000-0xDCFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xDC000000-0xDCFFFFFFPCI standard PCI-to-PCI bridgeOK
0xDA000000-0xDAFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xDA000000-0xDAFFFFFFPCI standard PCI-to-PCI bridgeOK
0xDA000000-0xDAFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xDCFFF000-0xDCFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xDAFFC000-0xDAFFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xFEC1F000-0xFEC1FFFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xD9F00000-0xD9FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xD9FFC000-0xD9FFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xD6000000-0xD8FFFFFFPCI busOK
0xD6000000-0xD8FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xD6000000-0xD8FFFFFFPCI standard PCI-to-PCI bridgeOK
0xD6000000-0xD8FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xFEC20000-0xFEC20FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xD6F00000-0xD6FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xD6FFC000-0xD6FFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK
0xFEC21000-0xFEC21FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 1461OK
0xD8F00000-0xD8FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 1460OK
0xD8F00000-0xD8FFFFFFPCI standard PCI-to-PCI bridgeOK
0xD8FFF000-0xD8FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xD6EFC000-0xD6EFCFFFIntel(R) P64H2 PCI Hot Plug Controller - 1462OK

```

0xD2000000-0xD5FFFFFFPCI busOK
0xD2000000-0xD5FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 14600K
0xD2000000-0xD5FFFFFFPCI standard PCI-to-PCI bridgeOK
0xD2000000-0xD5FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xFEC24000-0xFEC24FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 14610K
0xFEC25000-0xFEC25FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 14610K
0xD4F00000-0xD4FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 14600K
0xD4F00000-0xD4FFFFFFPCI standard PCI-to-PCI bridgeOK
0xD4FFF000-0xD4FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xD2FFFC00-0xD2FFFCFFIntel(R) P64H2 PCI Hot Plug Controller - 14620K
0xCD000000-0xD1FFFFFFPCI busOK
0xFEC26000-0xFEC26FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 14610K
0xD0F00000-0xD0FFFFFFIntel(R) P64H2 PCI to PCI Bridge - 14600K
0xD0F00000-0xD0FFFFFFPCI standard PCI-to-PCI bridgeOK
0xCE000000-0xCEFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 14600K
0xCE000000-0xCEFFFFFFPCI standard PCI-to-PCI bridgeOK
0xCE000000-0xCEFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xD0FFF000-0xD0FFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xCEFFFC00-0xCEFFFCFFIntel(R) P64H2 PCI Hot Plug Controller - 14620K
0xFEC27000-0xFEC27FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 14610K
0xCDF00000-0xCDFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 14600K
0xCDF00000-0xCDFFFFFFIntel(R) P64H2 PCI Hot Plug Controller - 14620K
0xCA000000-0xCCFFFFFFPCI busOK
0xCA000000-0xCCFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 14600K
0xCA000000-0xCCFFFFFFPCI standard PCI-to-PCI bridgeOK
0xCA000000-0xCCFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xFEC28000-0xFEC28FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 14610K
0xCAF00000-0xCAFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 14600K
0xCAFFFC00-0xCAFFFCFFIntel(R) P64H2 PCI Hot Plug Controller - 14620K
0xFEC29000-0xFEC29FFFIntel(R) P64H2 I/O Advanced Programmable Interrupt
Controller - 14610K
0xCCF00000-0xCCFFFFFFIntel(R) P64H2 PCI to PCI Bridge - 14600K
0xCCF00000-0xCCFFFFFFPCI standard PCI-to-PCI bridgeOK
0xCCFF0000-0xCCFFFFFFUnisys Intelligent Fibre Channel Fabric Bus Adapter
OK
0xCAEFFC00-0xCAEFCFFIntel(R) P64H2 PCI Hot Plug Controller - 14620K

```

[Components]

[Multimedia]

[Audio Codecs]

```

CODEC ManufacturerDescriptionStatusFileVersionSize Creation Date
c:\windows\system32\imaadp32.acmMicrosoft CorporationOK
C:\WINDOWS\system32\IMAADP32.ACM5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
24.00 KB (24,576 bytes)4/4/2006 5:00 AM
c:\windows\system32\msgsm32.acmMicrosoft CorporationOK
C:\WINDOWS\system32\MSGSM32.ACM5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
34.50 KB (35,328 bytes)4/4/2006 5:00 AM
c:\windows\system32\tssoft32.acmDSP GROUP, INC.OK
C:\WINDOWS\system32\TSSOFT32.ACM1.0113.50 KB (13,824 bytes)4/4/2006 5:00

```

AM

```

c:\windows\system32\msg711.acmMicrosoft CorporationOK
C:\WINDOWS\system32\MSG711.ACM5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
13.50 KB (13,824 bytes)4/4/2006 5:00 AM
c:\windows\system32\msadp32.acmMicrosoft CorporationOK
C:\WINDOWS\system32\MSADP32.ACM5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
23.50 KB (24,064 bytes)4/4/2006 5:00 AM

```

[Video Codecs]

```

CODEC ManufacturerDescriptionStatusFileVersionSize Creation Date
c:\windows\system32\msyuv.dllMicrosoft CorporationOK
C:\WINDOWS\system32\MSYUV.DLL5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
21.00 KB (21,504 bytes)3/24/2005 9:21 AM
c:\windows\system32\msvidc32.dllMicrosoft CorporationOK
C:\WINDOWS\system32\MSVIDC32.DLL5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
43.00 KB (44,032 bytes)4/4/2006 5:00 AM
c:\windows\system32\iyuv_32.dllMicrosoft CorporationOK
C:\WINDOWS\system32\IYUV_32.DLL5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
52.50 KB (53,760 bytes)3/24/2005 9:19 AM
c:\windows\system32\tsbyuv.dllMicrosoft CorporationOK
C:\WINDOWS\system32\TSBYUV.DLL5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
12.50 KB (12,800 bytes)3/24/2005 9:34 AM
c:\windows\system32\msrle32.dllMicrosoft CorporationOK
C:\WINDOWS\system32\MSRLE32.DLL5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
15.50 KB (15,872 bytes)4/4/2006 5:00 AM

```

[CD-ROM]

```

Item Value
Drive D:
DescriptionCD-ROM Drive
Media LoadedNo
Media TypeCD-ROM
Name _NEC DVD RW ND-6750A
Manufacturer(Standard CD-ROM drives)
Status OK
Transfer RateNot Available
SCSI Target ID0
PNP Device IDIDE\CDROM_NEC_DVD_RW_ND-
6750A_____2.P1_____5&2060063A&0&0.0.0

```

[Sound Device]

```
Item Value
```

[Display]

```

Item Value
Name UNISYS Console Manager 3
PNP Device ID
PCI\VEN_1002&DEV_4C52&SUBSYS_C2201018&REV_64\4&29817089&0&08F0
Adapter TypeATI MACH64, Unisys Corporation compatible
Adapter DescriptionUNISYS Console Manager 3
Adapter RAM4.00 MB (4,194,304 bytes)
Installed Driversvga.dll,cm3disp.dll
Driver Version8.1.1.11
INF Fileoem6.inf (cm3 section)
Color Planes1
Color Table Entries65536
Resolution1024 x 768 x 60 hertz
Bits/Pixel16
Memory Address0xF6000000-0xF6FFFFFF
I/O Port0x00001000-0x000010FF
Memory Address0xF7E00000-0xF7EFFFFF
Memory Address0xA00000-0xFFFFF

```

I/O Port0x000003B0-0x000003BE
I/O Port0x000003C0-0x000003DF

[Infrared]

Item Value

[Input]

[Keyboard]

Item Value
DescriptionUSB Human Interface Device
Name Enhanced (101- or 102-key)
Layout 00000409
PNP Device IDUSB\VID_0557&PID_2221&MI_00\6&14CD2FAC&0&0000
Number of Function Keys12

[Pointing Device]

Item Value
Hardware TypeUSB Human Interface Device
Number of Buttons5
Status OK
PNP Device IDUSB\VID_0557&PID_2221&MI_01\6&14CD2FAC&0&0001
Power Management SupportedNo
Double Click Threshold6
HandednessRight Handed Operation

[Modem]

Item Value

[Network]

[Adapter]

Item Value
Name [00000001] Intel(R) PRO/1000 MT Dual Port Network Connection
Adapter TypeEthernet 802.3
Product TypeIntel(R) PRO/1000 MT Dual Port Network Connection
InstalledYes
PNP Device ID
PCI\VEN_8086&DEV_1079&SUBSYS_10798086&REV_03\4&226B0D81&0&08E8
Last Reset3/7/2007 2:47 PM
Index 1
Service NameE1000
IP Address192.168.90.141, 192.168.91.246
IP Subnet255.255.255.0, 255.255.255.0
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC Address08:00:0B:1E:31:C4
Memory Address0xF3FE0000-0xF3FFFFFFF
I/O Port0x00003000-0x00004FFF
IRQ ChannelIRQ 72

Name [00000002] Intel(R) PRO/1000 MT Dual Port Network Connection
Adapter TypeEthernet 802.3
Product TypeIntel(R) PRO/1000 MT Dual Port Network Connection

InstalledYes
PNP Device ID
PCI\VEN_8086&DEV_1079&SUBSYS_10798086&REV_03\4&226B0D81&0&09E8
Last Reset3/7/2007 2:47 PM
Index 2
Service NameE1000
IP Address192.59.13.246
IP Subnet255.255.255.0
Default IP Gateway192.59.13.250
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC Address08:00:0B:1E:31:C5
Memory Address0xF3FC0000-0xF3FDFFFF
I/O Port0x00003040-0x0000307F
IRQ ChannelIRQ 73

Name [00000003] RAS Async Adapter
Adapter TypeNot Available
Product TypeRAS Async Adapter
InstalledYes
PNP Device IDNot Available
Last Reset3/7/2007 2:47 PM
Index 3
Service NameAsyncMac
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000004] WAN Miniport (L2TP)
Adapter TypeNot Available
Product TypeWAN Miniport (L2TP)
InstalledYes
PNP Device IDROOT\MS_L2TPMINIPOINT\0000
Last Reset3/7/2007 2:47 PM
Index 4
Service NameRasl2tp
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000005] WAN Miniport (PPTP)
Adapter TypeWide Area Network (WAN)
Product TypeWAN Miniport (PPTP)
InstalledYes
PNP Device IDROOT\MS_PPTPMINIPOINT\0000
Last Reset3/7/2007 2:47 PM
Index 5
Service NamePptpMiniport
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available

DHCP Lease ObtainedNot Available
MAC Address50:50:54:50:30:30

Name [00000006] WAN Miniport (PPPOE)
Adapter TypeWide Area Network (WAN)
Product TypeWAN Miniport (PPPOE)
InstalledYes
PNP Device IDROOT\MS_PPPOEMINIPOINT\0000
Last Reset3/7/2007 2:47 PM
Index 6
Service NameRasPppoe
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC Address33:50:6F:45:30:30

Name [00000007] Direct Parallel
Adapter TypeNot Available
Product TypeDirect Parallel
InstalledYes
PNP Device IDROOT\MS_PTIMINIPOINT\0000
Last Reset3/7/2007 2:47 PM
Index 7
Service NameRaspti
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000008] WAN Miniport (IP)
Adapter TypeNot Available
Product TypeWAN Miniport (IP)
InstalledYes
PNP Device IDROOT\MS_NDISWANIP\0000
Last Reset3/7/2007 2:47 PM
Index 8
Service NameNdisWan
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000009] Console Manager Network Connection
Adapter TypeNot Available
Product TypeConsole Manager Network Connection
InstalledYes
PNP Device IDUSB\VID_0432&PID_0012\5&2873F1A0&0&1
Last Reset3/7/2007 2:47 PM
Index 9
Service NameUSB RNDIS
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledYes

DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000010] Intel(R) PRO/1000 MT Dual Port Network Connection
Adapter TypeNot Available
Product TypeIntel(R) PRO/1000 MT Dual Port Network Connection
InstalledYes
PNP Device IDNot Available
Last Reset3/7/2007 2:47 PM
Index 10
Service NameE1000
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000011] Intel(R) PRO/1000 MT Dual Port Network Connection
Adapter TypeNot Available
Product TypeIntel(R) PRO/1000 MT Dual Port Network Connection
InstalledYes
PNP Device IDNot Available
Last Reset3/7/2007 2:47 PM
Index 11
Service NameE1000
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000012] Intel(R) PRO/1000 MT Dual Port Network Connection
Adapter TypeNot Available
Product TypeIntel(R) PRO/1000 MT Dual Port Network Connection
InstalledYes
PNP Device IDNot Available
Last Reset3/7/2007 2:47 PM
Index 12
Service NameE1000
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000013] Intel(R) PRO/1000 MT Dual Port Network Connection
Adapter TypeNot Available
Product TypeIntel(R) PRO/1000 MT Dual Port Network Connection
InstalledYes
PNP Device IDNot Available
Last Reset3/7/2007 2:47 PM
Index 13
Service NameE1000
IP AddressNot Available
IP SubnetNot Available

Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000014] Intel(R) PRO/1000 MT Dual Port Network Connection
Adapter TypeNot Available
Product TypeIntel(R) PRO/1000 MT Dual Port Network Connection
InstalledYes
PNP Device IDNot Available
Last Reset3/7/2007 2:47 PM
Index 14
Service NameE1000
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000015] Intel(R) PRO/1000 MT Dual Port Network Connection
Adapter TypeNot Available
Product TypeIntel(R) PRO/1000 MT Dual Port Network Connection
InstalledYes
PNP Device IDNot Available
Last Reset3/7/2007 2:47 PM
Index 15
Service NameE1000
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000016] 1394 Net Adapter
Adapter TypeEthernet 802.3
Product Type1394 Net Adapter
InstalledYes
PNP Device IDV1394\NIC1394\CD00008000B00
Last Reset3/7/2007 2:47 PM
Index 16
Service NameNIC1394
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledYes
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC Address62:EC:42:86:0C:1B

[Protocol]

Item Value
Name MSAFD Tcpip [TCP/IP]
Connectionless ServiceNo
Guarantees DeliveryYes
Guarantees SequencingYes
Maximum Address Size16 bytes

Maximum Message Size0 bytes
Message OrientedNo
Minimum Address Size16 bytes
Pseudo Stream OrientedNo
Supports BroadcastingNo
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataYes
Supports Graceful ClosingYes
Supports Guaranteed BandwidthNo
Supports MulticastingNo

Name MSAFD Tcpip [UDP/IP]
Connectionless ServiceYes
Guarantees DeliveryNo
Guarantees SequencingNo
Maximum Address Size16 bytes
Maximum Message Size63.93 KB (65,467 bytes)
Message OrientedYes
Minimum Address Size16 bytes
Pseudo Stream OrientedNo
Supports BroadcastingYes
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingYes

Name RSVP UDP Service Provider
Connectionless ServiceYes
Guarantees DeliveryNo
Guarantees SequencingNo
Maximum Address Size16 bytes
Maximum Message Size63.93 KB (65,467 bytes)
Message OrientedYes
Minimum Address Size16 bytes
Pseudo Stream OrientedNo
Supports BroadcastingYes
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionYes
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingYes

Name RSVP TCP Service Provider
Connectionless ServiceNo
Guarantees DeliveryYes
Guarantees SequencingYes
Maximum Address Size16 bytes
Maximum Message Size0 bytes
Message OrientedNo
Minimum Address Size16 bytes
Pseudo Stream OrientedNo
Supports BroadcastingNo
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionYes
Supports Expedited DataYes
Supports Graceful ClosingYes
Supports Guaranteed BandwidthNo
Supports MulticastingNo

```
[WinSock]

Item      Value
File      c:\windows\system32\wsock32.dll
Size      24.50 KB (25,088 bytes)
Version   5.2.3790.1830 (srv03_sp1_rtm.050324-1447)
```

[Ports]

[Serial]

```
Item      Value
Name      Communications Port (COM1)
Status    OK
PNP Device IDACPI\PNP0501\15
Maximum Input Buffer Size0
Maximum Output Buffer SizeNo
Settable Baud RateYes
Settable Data BitsYes
Settable Flow ControlYes
Settable ParityYes
Settable Parity CheckYes
Settable Stop BitsYes
Settable RLSYYes
Supports RLSYYes
Supports 16 Bit ModeNo
Supports Special CharactersNo
Baud Rate9600
Bits/Byte8
Stop Bits1
Parity None
Busy      No
Abort Read/Write on ErrorNo
Binary Mode EnabledYes
Continue XMit on XOffNo
CTS Outflow ControlNo
Discard NULL BytesNo
DSR Outflow Control0
DSR Sensitivity0
DTR Flow Control TypeEnable
EOF Character0
Error Replace Character0
Error Replacement EnabledNo
Event Character0
Parity Check EnabledNo
RTS Flow Control TypeEnable
XOff Character19
XOffXMit Threshold512
XOn Character17
XOnXMit Threshold2048
XOnXOff InFlow Control0
XOnXOff OutFlow Control0
I/O Port0x000003F8-0x000003FF
IRQ ChannelIRQ 4
```

[Parallel]

```
Item      Value
```

[Storage]

[Drives]

```
Item      Value
Drive     C:
DescriptionLocal Fixed Disk
CompressedNo
File SystemNTFS
Size      33.51 GB (35,985,563,648 bytes)
Free Space16.68 GB (17,905,586,176 bytes)
Volume Name
Volume Serial NumberE0CD8642
```

```
Drive     D:
DescriptionCD-ROM Disc
```

[Disks]

```
Item      Value
DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model     IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID60
Sectors/Track63
Size      1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #9, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #9, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #9, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #9, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes
```

```
DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model     IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID48
Sectors/Track63
Size      1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #21, Partition #0
```


Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #21, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #21, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #21, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID64
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #5, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #5, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #5, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #5, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID56
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #13, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #13, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #13, Partition #2

Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #13, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID32
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #37, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #37, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #37, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #37, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID69
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #73, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #73, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #73, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #73, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

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DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID36
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #33, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #33, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #33, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #33, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

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DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID52
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #17, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #17, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #17, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #17, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

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DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk

```

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Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID44
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #25, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #25, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #25, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #25, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

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DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0000 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions1
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID68
Sectors/Track63
Size 1.72 TB (1,896,157,347,840 bytes)
Total Cylinders230,528
Total Sectors3,703,432,320
Total Tracks58,784,640
Tracks/Cylinder255
PartitionDisk #1, Partition #0
Partition Size1.72 TB (1,896,157,315,584 bytes)
Partition Starting Offset32,256 bytes

```

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DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID61
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #8, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #8, Partition #1

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Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #8, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #8, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID49
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #20, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #20, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #20, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #20, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID65
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #4, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #4, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #4, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #4, Partition #3

Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID57
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #12, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #12, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #12, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #12, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID33
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #36, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #36, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #36, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #36, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040

Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID70
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #72, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #72, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #72, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #72, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID41
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #28, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #28, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #28, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #28, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0

SCSI Port0
SCSI Target ID37
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #32, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #32, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #32, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #32, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID53
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #16, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #16, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #16, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #16, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0001 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID45
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505

Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #24, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #24, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #24, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #24, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID66
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #7, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #7, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #7, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #7, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID50
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #19, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #19, Partition #1

Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #19, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #19, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID66
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #3, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #3, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #3, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #3, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID58
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #11, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #11, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #11, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #11, Partition #3

Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID34
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #35, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #35, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #35, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #35, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID71
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #71, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #71, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #71, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #71, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040

Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID42
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #27, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #27, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #27, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #27, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID38
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #31, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #31, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #31, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #31, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0

SCSI Port0
SCSI Target ID54
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #15, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #15, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #15, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #15, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0002 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID46
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #23, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #23, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #23, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #23, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID63
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505

Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #6, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #6, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #6, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #6, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID51
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #18, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #18, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #18, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #18, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID67
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #2, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #2, Partition #1

Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #2, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #2, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID59
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #10, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #10, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #10, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #10, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID35
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #34, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #34, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #34, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #34, Partition #3

Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID72
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #70, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #70, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #70, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #70, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID43
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #26, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #26, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #26, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #26, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040


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Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID39
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #30, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #30, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #30, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #30, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

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DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID55
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #14, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #14, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #14, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #14, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

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DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0003 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0

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SCSI Port0
SCSI Target ID47
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #22, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #22, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #22, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #22, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

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DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model IQSTOR IQ2880_V0004 6040
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID40
Sectors/Track63
Size 1,007.93 GB (1,082,257,666,560 bytes)
Total Cylinders131,577
Total Sectors2,113,784,505
Total Tracks33,552,135
Tracks/Cylinder255
PartitionDisk #29, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #29, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #29, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #29, Partition #3
Partition Size953.20 GB (1,023,488,040,960 bytes)
Partition Starting Offset58,769,625,600 bytes

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DescriptionDisk drive
Manufacturer(Standard disk drives)
Model LSILOGIC Logical Volume SCSI Disk Device
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions1
SCSI Bus0
SCSI Logical Unit0
SCSI Port3
SCSI Target ID8
Sectors/Track63
Size 33.52 GB (35,993,825,280 bytes)
Total Cylinders4,376
Total Sectors70,300,440

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Total Tracks1,115,880
Tracks/Cylinder255
PartitionDisk #0, Partition #0
Partition Size33.51 GB (35,985,567,744 bytes)
Partition Starting Offset32,256 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID4
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #65, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #65, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #65, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #65, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID5
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #64, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #64, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #64, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #64, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID6
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #63, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #63, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #63, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #63, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID7
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #62, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #62, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #62, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #62, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk

Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID16
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #53, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #53, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #53, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #53, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID17
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #52, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #52, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #52, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #52, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID18
Sectors/Track63

Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #51, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #51, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #51, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #51, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID19
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #50, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #50, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #50, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #50, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID0
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #69, Partition #0

Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #69, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #69, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #69, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID1
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #68, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #68, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #68, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #68, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID2
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #67, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #67, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #67, Partition #2

Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #67, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID3
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #66, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #66, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #66, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #66, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID24
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #45, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #45, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #45, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #45, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID25
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #44, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #44, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #44, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #44, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID26
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #43, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #43, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #43, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #43, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk

Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID27
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #42, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #42, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #42, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #42, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID12
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #57, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #57, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #57, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #57, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID13
Sectors/Track63

Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #56, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #56, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #56, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #56, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID14
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #55, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #55, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #55, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #55, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID15
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #54, Partition #0

Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #54, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #54, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #54, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID8
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #61, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #61, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #61, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #61, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID9
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #60, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #60, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #60, Partition #2

Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #60, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID10
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #59, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #59, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #59, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #59, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID11
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #58, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #58, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #58, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #58, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID20
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #49, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #49, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #49, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #49, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID21
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #48, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #48, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #48, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #48, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk

Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID22
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #47, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #47, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #47, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #47, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID23
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #46, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #46, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #46, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #46, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID28
Sectors/Track63

Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #41, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #41, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #41, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #41, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID29
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #40, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #40, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #40, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #40, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID30
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #39, Partition #0

Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #39, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #39, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #39, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

DescriptionUnisys Intelligent Fibre Channel Fabric Disk Driver
ManufacturerUnisys Corporation
Model UNISYS VirtualStorage 01.0
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions4
SCSI Bus0
SCSI Logical Unit0
SCSI Port0
SCSI Target ID31
Sectors/Track63
Size 239.26 GB (256,900,170,240 bytes)
Total Cylinders31,233
Total Sectors501,758,145
Total Tracks7,964,415
Tracks/Cylinder255
PartitionDisk #38, Partition #0
Partition Size17.11 GB (18,367,017,984 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #38, Partition #1
Partition Size24.92 GB (26,756,835,840 bytes)
Partition Starting Offset18,367,050,240 bytes
PartitionDisk #38, Partition #2
Partition Size12.71 GB (13,645,739,520 bytes)
Partition Starting Offset45,123,886,080 bytes
PartitionDisk #38, Partition #3
Partition Size184.52 GB (198,122,319,360 bytes)
Partition Starting Offset58,769,625,600 bytes

[SCSI]

Item Value
Name LSI Adapter, SAS 3000 series, 8-port with 1068 -StorPort
ManufacturerLSI Logic
Status OK
PNP Device ID
PCI\VEN 1000&DEV 0054&SUBSYS 30501000&REV_01\4&2AAD566B&0&08F8
I/O Port0x00002000-0x00002FFF
Memory Address0xF4FEC000-0xF4FEFFFF
Memory Address0xF4FF0000-0xF4FF7FFF
IRQ ChannelIRQ 48

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation
Status OK
PNP Device ID
PCI\VEN 11AB&DEV 4620&SUBSYS C0FC1018&REV_12\5&35728DA7&0&0008E8
Memory Address0xEF000000-0xEFFFFFFF
Memory Address0xF1FFF000-0xF1FFFFFFF
IRQ ChannelIRQ 120

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation

Status OK
PNP Device ID
PCI\VEN 11AB&DEV 4620&SUBSYS C0FC1018&REV_12\5&17F7F795&0&0008F8
Memory Address0xEE000000-0xF1FFFFFFF
Memory Address0xF1EFF000-0xF1EFFFFF
IRQ ChannelIRQ 144

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation
Status OK
PNP Device ID
PCI\VEN 11AB&DEV 4620&SUBSYS C0FC1018&REV_12\5&34FD2864&0&0008F8
Memory Address0xEA000000-0xEDFFFFFFF
Memory Address0xECFFF000-0xECFFFFFFF
IRQ ChannelIRQ 192

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation
Status OK
PNP Device ID
PCI\VEN 11AB&DEV 4620&SUBSYS C0FC1018&REV_12\5&FF00977&0&0008E8
Memory Address0xE4000000-0xE4FFFFFFF
Memory Address0xE6FFF000-0xE6FFFFFFF
IRQ ChannelIRQ 504

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation
Status OK
PNP Device ID
PCI\VEN 11AB&DEV 4620&SUBSYS C0FC1018&REV_12\5&2D37A410&0&0008F8
Memory Address0xE0000000-0xE2FFFFFFF
Memory Address0xE2FFF000-0xE2FFFFFFF
IRQ ChannelIRQ 576

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation
Status OK
PNP Device ID
PCI\VEN 11AB&DEV 4620&SUBSYS C0FC1018&REV_12\5&11E963DD&0&0008E8
Memory Address0xDA000000-0xDAFFFFFFFFF
Memory Address0xDCFFF000-0xDCFFFFFFF
IRQ ChannelIRQ 696

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation
Status OK
PNP Device ID
PCI\VEN 11AB&DEV 4620&SUBSYS C0FC1018&REV_12\5&2BC6862C&0&0008F8
Memory Address0xD6000000-0xD8FFFFFFF
Memory Address0xD8FFF000-0xD8FFFFFFF
IRQ ChannelIRQ 768

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation
Status OK
PNP Device ID
PCI\VEN 11AB&DEV 4620&SUBSYS C0FC1018&REV_12\5&20DEF3&0&0008F8
Memory Address0xD2000000-0xD5FFFFFFF
Memory Address0xD4FFF000-0xD4FFFFFFF
IRQ ChannelIRQ 864

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation
Status OK
PNP Device ID
PCI\VEN 11AB&DEV 4620&SUBSYS C0FC1018&REV_12\5&14834304&0&0008E8

Memory Address0xCE000000-0xCEFFFFFF
Memory Address0xD0FFFF00-0xD0FFFFFF
IRQ ChannelIRQ 888

Name Unisys Intelligent Fibre Channel Fabric Bus Adapter
ManufacturerUnisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&399DD4FB&0&0008F8
Memory Address0xCA000000-0xCCFFFFFF
Memory Address0xCCFFF000-0xCCFFFFFF
IRQ ChannelIRQ 960

[IDE]

Item Value
Name Intel(R) 82801DB Ultra ATA Storage Controller-24CB
ManufacturerIntel
Status OK
PNP Device IDPCI\VEN_8086&DEV_24CB&SUBSYS_24C28086&REV_02\3&267A616A&0&F9
I/O Port0x00000880-0x0000088F
Memory Address0xF7FFF800-0xF7FFBF

Name Primary IDE Channel
Manufacturer(Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device IDPCI\IDE\IDECHANNEL\4&291FD35B&0&0
I/O Port0x000001F0-0x000001F7
I/O Port0x000003F6-0x000003F6
IRQ ChannelIRQ 14

Name Secondary IDE Channel
Manufacturer(Standard IDE ATA/ATAPI controllers)
Status OK
PNP Device IDPCI\IDE\IDECHANNEL\4&291FD35B&0&1
I/O Port0x00000170-0x00000177
I/O Port0x00000376-0x00000376
IRQ ChannelIRQ 15

[Printing]

Name Driver Port NameServer Name

[Problem Devices]

Device PNP Device IDError Code
Console Manager Network ConnectionUSB\VID_0432&PID_0012\5&2873F1A0&0&1
This device is disabled.
Intel(R) P64H2 PCI to PCI Bridge - 1460
PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&13C0B0C5&0&E8This device cannot start.
Intel(R) P64H2 PCI to PCI Bridge - 1460
PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&1B2F0CE&0&E8This device cannot start.
Intel(R) P64H2 PCI to PCI Bridge - 1460
PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&3BCEF44&0&E8This device cannot start.
Intel(R) P64H2 PCI to PCI Bridge - 1460
PCI\VEN_8086&DEV_1460&SUBSYS_00000000&REV_04\3&4F64EAC&0&E8This device cannot start.
Not AvailableACPI\UNO4500\0The drivers for this device are not installed.
Not AvailableACPI\UNO4501\0The drivers for this device are not installed.

[USB]

Device PNP Device ID

Intel(R) 82801DB/DBM USB Universal Host Controller - 24C2
PCI\VEN_8086&DEV_24C2&SUBSYS_24C28086&REV_02\3&267A616A&0&E8
Intel(R) 82801DB/DBM USB Universal Host Controller - 24C4
PCI\VEN_8086&DEV_24C4&SUBSYS_24C28086&REV_02\3&267A616A&0&E9
Intel(R) 82801DB/DBM USB Universal Host Controller - 24C7
PCI\VEN_8086&DEV_24C7&SUBSYS_24C28086&REV_02\3&267A616A&0&EA
Intel(R) 82801DB/DBM USB 2.0 Enhanced Host Controller - 24CD
PCI\VEN_8086&DEV_24CD&SUBSYS_24C08086&REV_02\3&267A616A&0&EF

[Software Environment]

[System Drivers]

Name	Description	FileType	Started	Start	Mode	State	Status	Error	Control	
Accept	Pause	Accept	Stop							
abiosdsk	Abiosdsk	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Ignore	NoNo	
acpi	Microsoft ACPI	Driver	c:\windows\system32\drivers\acpi.sys	Kernel	Running	OK	Normal	No	Yes	
acpiec	ACPIEC	c:\windows\system32\drivers\acpiec.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
adpu160	adpu160m	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
adpu320	adpu320	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
afd	AFD	c:\windows\system32\drivers\afd.sys	Kernel Driver	Yes	System	Running	OK	Normal	Yes	
aic78u2	aic78u2	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
aic78xx	aic78xx	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
aliide	AliIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
amdide	AmdIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
arc	arc	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
arp1394	1394 ARP Client Protocol	c:\windows\system32\drivers\arp1394.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	Yes	
asynmac	ASynchronous Media Driver	c:\windows\system32\drivers\asynmac.sys	Kernel Driver	No	Manual	Stopped	OK	Normal	No	
atapi	Standard IDE/ESDI Hard Disk Controller	c:\windows\system32\drivers\atapi.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No	
atdisk	Atdisk	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Ignore	NoNo	
atmarpc	ATM ARP Client Protocol	c:\windows\system32\drivers\atmarpc.sys	Kernel Driver	No	Manual	Stopped	OK	Normal	No	
audstub	Audio Stub	Driver	c:\windows\system32\drivers\audstub.sys	Kernel	Running	OK	Normal	No	Yes	
beep	Beep	c:\windows\system32\drivers\beep.sys	Kernel Driver	Yes	System	Running	OK	Normal	Yes	
cdac15ba	CdaC15BAC	c:\windows\system32\drivers\cdac15ba.sys	Kernel Driver	Yes	Auto	Running	OK	Normal	Yes	
cdad10ba	CdaD10BAC	c:\windows\system32\drivers\cdad10ba.sys	Kernel Driver	Yes	Auto	Running	OK	Normal	Yes	
cdfs	Cdfs	c:\windows\system32\drivers\cdfs.sys	File System Driver	Yes	Disabled	Running	OK	Normal	Yes	
cdrom	CD-ROM Driver	c:\windows\system32\drivers\cdrom.sys	Kernel Driver	Yes	System	Running	OK	Normal	No	
changer	Changer	Not Available	Kernel Driver	No	System	Stopped	OK	Ignore	NoNo	
clusdisk	Cluster Disk	Driver	c:\windows\system32\drivers\clusdisk.sys	Kernel	Driver	No	Disabled	Stopped	OK	
cm3	cm3	c:\windows\system32\drivers\cm3mini.sys	Kernel Driver	Yes	Manual	Running	OK	Ignore	No	
cmdide	CmdIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
cpqcciss	mpqciss	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo	
crdisk	CRC Disk Filter	Driver	c:\windows\system32\drivers\crdisk.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	Yes
dfsdriver	DfsDriver	c:\windows\system32\drivers\dfs.sys	File System Driver	Yes	Boot	Running	OK	Normal	Yes	
disk	Disk	Driver	c:\windows\system32\drivers\disk.sys	Kernel Driver	Yes					

```

Boot Running OK Normal No Yes
dmboot dmboot c:\windows\system32\drivers\dmboot.sys Kernel Driver No
Disabled Stopped OK Normal No No
dmio Logical Disk Manager Driver c:\windows\system32\drivers\dmio.sys
Kernel Driver Yes Boot Running OK Normal No Yes
dmload dmload c:\windows\system32\drivers\dmload.sys Kernel Driver Yes Boot
Running OK Normal No Yes
dpti2o dpti2o Not Available Kernel Driver No Disabled Stopped OK Normal No No
e1000 Intel(R) PRO/1000 Network Connection Driver
c:\windows\system32\drivers\elg5132e.sys Kernel Driver Yes Manual Running OK
Normal No Yes
elxplus Emulex PLUS Service c:\windows\system32\drivers\elxplus.sys Kernel
Driver Yes Boot Running OK Normal No Yes
elxstor elxstor c:\windows\system32\drivers\elxstor.sys Kernel Driver Yes
Boot Running OK Normal No Yes
fastfat Fastfat c:\windows\system32\drivers\fastfat.sys File System Driver
No Disabled Stopped OK Normal No No
fdc Fdc c:\windows\system32\drivers\fdc.sys Kernel Driver No System
Stopped OK Ignore No No
fips Fips c:\windows\system32\drivers\fips.sys Kernel Driver Yes System
Running OK Normal No Yes
flpydisk Flpydisk c:\windows\system32\drivers\flpydisk.sys Kernel Driver No
System Stopped OK Ignore No No
fltmgr FltMgr c:\windows\system32\drivers\fltmgr.sys File System Driver
Yes Boot Running OK Normal No Yes
ftdisk Volume Manager Driver c:\windows\system32\drivers\ftdisk.sys Kernel
Driver Yes Boot Running OK Normal No Yes
gpc Generic Packet Classifier c:\windows\system32\drivers\msgpc.sys
Kernel Driver Yes Manual Running OK Normal No Yes
hidusb Microsoft HID Class Driver c:\windows\system32\drivers\hidusb.sys
Kernel Driver Yes Manual Running OK Ignore No Yes
hpciss hpciss Not Available Kernel Driver No Disabled Stopped OK Normal No No
http HTTP c:\windows\system32\drivers\http.sys Kernel Driver No Manual
Stopped OK Normal No No
i2omgmt i2omgmt Not Available Kernel Driver No System Stopped OK Normal No No
ifba Unisys Intelligent Fibre Channel Adapter SCSI Processor
c:\windows\system32\drivers\ifba.sys Kernel Driver Yes Manual Running OK Normal
No Yes
ifdisk Unisys Intelligent Fibre Channel Fabric Disk Driver
c:\windows\system32\drivers\ifdisk.sys Kernel Driver Yes System Running OK
Normal No Yes
ifip Unisys Intelligent Fibre Channel Fabric Bus Enumerator
c:\windows\system32\drivers\ifip.sys Kernel Driver Yes Boot Running OK Normal No
Yes
ifxp Unisys Intelligent Fibre Channel Fabric Bus Adapter
c:\windows\system32\drivers\ifxp.sys Kernel Driver Yes Boot Running OK Normal No
Yes
iirsp iirsp Not Available Kernel Driver No Disabled Stopped OK Normal No No
imapi CD-Burning Filter Driver c:\windows\system32\drivers\imapi.sys
Kernel Driver Yes System Running OK Normal No Yes
intelide IntelIde c:\windows\system32\drivers\intelide.sys Kernel Driver Yes
Boot Running OK Normal No Yes
intelppm Intel Processor Driver c:\windows\system32\drivers\intelppm.sys
Kernel Driver Yes Manual Running OK Normal No Yes
ip6fw IP6 Windows Firewall Driver c:\windows\system32\drivers\ip6fw.sys
Kernel Driver No Manual Stopped OK Normal No No
ipfilterdriver IP Traffic Filter Driver
c:\windows\system32\drivers\ipfltdrv.sys Kernel Driver No Manual Stopped OK
Normal No No
ipinip IP in IP Tunnel Driver c:\windows\system32\drivers\ipinip.sys
Kernel Driver No Manual Stopped OK Normal No No
ipnat IP Network Address Translator
c:\windows\system32\drivers\ipnat.sys Kernel Driver No Manual Stopped OK Normal
No No
ipsec IPSEC driver c:\windows\system32\drivers\ipsec.sys Kernel Driver Yes
System Running OK Normal No Yes

```

```

isapnp PnP ISA/EISA Bus Driver c:\windows\system32\drivers\isapnp.sys
Kernel Driver Yes Boot Running OK Critical No Yes
kbdclass Keyboard Class Driver c:\windows\system32\drivers\kbdclass.sys
Kernel Driver Yes System Running OK Normal No Yes
kbdhid Keyboard HID Driver c:\windows\system32\drivers\kbdhid.sys Kernel
Driver Yes System Running OK Ignore No Yes
ksecdd KSecDD c:\windows\system32\drivers\ksecdd.sys Kernel Driver Yes Boot
Running OK Normal No Yes
ksthunk Kernel Streaming WOW64 Thunk Service
c:\windows\system32\drivers\ksthunk.sys Kernel Driver Yes Manual Running OK
Normal No Yes
lp6nds35lp6nds35 Not Available Kernel Driver No Disabled Stopped OK Normal No No
lpkxdrv lpkxdrv c:\windows\system32\drivers\lpkxdrv.sys Kernel Driver Yes
Manual Running OK Normal No Yes
lsi_sas lsi_sas c:\windows\system32\drivers\lsi_sas.sys Kernel Driver Yes
Boot Running OK Normal No Yes
mmdd mmdd c:\windows\system32\drivers\mmdd.sys Kernel Driver Yes
System Running OK Ignore No Yes
modem Modem c:\windows\system32\drivers\modem.sys Kernel Driver No Manual
Stopped OK Ignore No No
mouclass Mouse Class Driver c:\windows\system32\drivers\mouclass.sys Kernel
Driver Yes System Running OK Normal No Yes
mouhid Mouse HID Driver c:\windows\system32\drivers\mouhid.sys Kernel
Driver Yes Manual Running OK Ignore No Yes
mountmgr Mount Point Manager c:\windows\system32\drivers\mountmgr.sys Kernel
Driver Yes Boot Running OK Normal No Yes
raid3xraid35 Not Available Kernel Driver No Disabled Stopped OK Normal No No
mrxdav WebDav Client Redirector c:\windows\system32\drivers\mrxdav.sys
File System Driver No Manual Stopped OK Normal No No
mrxsmb MRXSMB c:\windows\system32\drivers\mrxsmb.sys File System Driver
Yes System Running OK Normal No Yes
msfs Msfs c:\windows\system32\drivers\msfs.sys File System Driver Yes
System Running OK Normal No Yes
mssmbios Microsoft System Management BIOS Driver
c:\windows\system32\drivers\mssmbios.sys Kernel Driver Yes Manual Running OK
Normal No Yes
mup Mup c:\windows\system32\drivers\mup.sys File System Driver Yes
Boot Running OK Normal No Yes
ndis NDIS System Driver c:\windows\system32\drivers\ndis.sys Kernel
Driver Yes Boot Running OK Normal No Yes
ndistapi Remote Access NDIS TAPI Driver
c:\windows\system32\drivers\ndistapi.sys Kernel Driver Yes Manual Running OK
Normal No Yes
ndisuiio NDIS Usermode I/O Protocol c:\windows\system32\drivers\ndisuiio.sys
Kernel Driver No Manual Stopped OK Normal No No
ndiswan Remote Access NDIS WAN Driver
c:\windows\system32\drivers\ndiswan.sys Kernel Driver Yes Manual Running OK
Normal No Yes
ndproxy NDIS Proxy c:\windows\system32\drivers\ndproxy.sys Kernel Driver Yes
Manual Running OK Normal No Yes
netbios NetBIOS Interface c:\windows\system32\drivers\netbios.sys File
System Driver Yes System Running OK Normal No Yes
netbt NetBios over Tcpip c:\windows\system32\drivers\netbt.sys Kernel
Driver Yes System Running OK Normal No Yes
nfrd960 nfrd960 Not Available Kernel Driver No Disabled Stopped OK Normal No No
nic1394 1394 Net Driver c:\windows\system32\drivers\nic1394.sys Kernel
Driver Yes Manual Running OK Normal No Yes
npfs Npfs c:\windows\system32\drivers\npfs.sys File System Driver Yes
System Running OK Normal No Yes
ntfs Ntfs c:\windows\system32\drivers\ntfs.sys File System Driver Yes
Disabled Running OK Normal No Yes
null Null c:\windows\system32\drivers\null.sys Kernel Driver Yes System
Running OK Normal No Yes
ohci1394 Texas Instruments OHCI Compliant IEEE 1394 Host Controller
c:\windows\system32\drivers\ohci1394.sys Kernel Driver Yes Boot Running OK
Normal No Yes

```

```

parport Parport c:\windows\system32\drivers\parport.sysKernel DriverNo
Manual Stopped OK Ignore No No
partmgr Partition Managerc:\windows\system32\drivers\partmgr.sysKernel
Driver Yes Boot Running OK Normal No Yes
pci PCI Bus Driverc:\windows\system32\drivers\pci.sysKernel DriverYes
Boot Running OK CriticalNo Yes
pciide PCIIdc c:\windows\system32\drivers\pciide.sysKernel DriverYesBoot
Running OK Normal No Yes
pcmcia Pcmcia c:\windows\system32\drivers\pcmcia.sysKernel DriverNo
DisabledStoppedOK Normal No No
pdcomp PDCOMP Not AvailableKernel DriverNoManualStoppedOK Ignore NoNo
pdframe PDFRAME Not AvailableKernel DriverNoManualStoppedOK Ignore NoNo
pdreli PDRELI Not AvailableKernel DriverNoManualStoppedOK Ignore NoNo
pdframePDRFRAMENot AvailableKernel DriverNoManualStoppedOK Ignore NoNo
pptpminiportWAN Miniport (PPTP)c:\windows\system32\drivers\rasppptp.sys
Kernel DriverYesManual Running OK Normal No Yes
ptilink Direct Parallel Link Driver
c:\windows\system32\drivers\ptilink.sysKernel DriverYesManualRunningOK
Normal No Yes
ql2300 ql2300 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
rasacd Remote Access Auto Connection Driver
c:\windows\system32\drivers\rasacd.sysKernel DriverYesSystemRunningOK
Normal No Yes
rasl2tp WAN Miniport (L2TP)c:\windows\system32\drivers\rasl2tp.sysKernel
Driver Yes Manual Running OK Normal No Yes
rasppoeRemote Access PPOE Driver
c:\windows\system32\drivers\rasppoe.sysKernel DriverYesManualRunningOK
Normal No Yes
raspti Direct Parallelc:\windows\system32\drivers\raspti.sysKernel
Driver Yes Manual Running OK Normal No Yes
rdbss Rdbss c:\windows\system32\drivers\rdbss.sysFile System DriverYes
System Running OK Normal No Yes
rdpcdd RDPcDD c:\windows\system32\drivers\rdpcdd.sysKernel DriverYes
System Running OK Ignore No Yes
rdpdr Terminal Server Device Redirector Driver
c:\windows\system32\drivers\rdpdr.sysKernel DriverYesManualRunningOK
Normal No Yes
rdpwd RDPWD c:\windows\system32\drivers\rdpwd.sysKernel DriverYes
Manual Running OK Ignore No Yes
redbook Digital CD Audio Playback Filter Driver
c:\windows\system32\drivers\redbook.sysKernel DriverYesSystemRunningOK
Normal No Yes
secdrv Security Driverc:\windows\system32\drivers\secdrv.sysKernel
Driver Yes Auto Running OK Normal No Yes
serenum Serenum Filter Driverc:\windows\system32\drivers\serenum.sys
Kernel DriverYesManual Running OK Normal No Yes
serial Serial port driverc:\windows\system32\drivers\serial.sysKernel
Driver Yes Manual Running OK Ignore No Yes
sfloppy High-Capacity Floppy Disk Drive
c:\windows\system32\drivers\sfloppy.sysKernel DriverNoManualStoppedOK
Normal No No
simbad Simbad Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
srv Srv c:\windows\system32\drivers\srv.sysFile System DriverYes
Manual Running OK Normal No Yes
swenum Software Bus Driverc:\windows\system32\drivers\swenum.sysKernel
Driver Yes Manual Running OK Normal No Yes
sync8xx sync8xx Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
symmpi symmpi Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
sym_hi sym_hi Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
sym_u3 sym_u3 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
tbdriverTbDriverc:\windows\system32\drivers\tbdriver.sysKernel DriverYes
Boot Running OK Normal No Yes
tcpip TCP/IP Protocol Driverc:\windows\system32\drivers\tcpip.sysKernel
Driver Yes System Running OK Normal No Yes
tdpipe TdPIPE c:\windows\system32\drivers\tdpipe.sysKernel DriverNo
Manual Stopped OK Ignore No No

```

```

tdtcp TDTCP c:\windows\system32\drivers\tdtcp.sysKernel DriverYes
Manual Running OK Ignore No Yes
termdd Terminal Device Driverc:\windows\system32\drivers\termdd.sys
Kernel DriverYesSystem Running OK Normal No Yes
toside TosIde Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
udfs Udfs c:\windows\system32\drivers\udfs.sysFile System DriverNo
DisabledStoppedOK Normal No No
ultra ultra Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
update Microcode Update Driverc:\windows\system32\drivers\update.sys
Kernel DriverYesManual Running OK Normal No Yes
usbccgp Microsoft USB Generic Parent Driver
c:\windows\system32\drivers\usbccgp.sysKernel DriverYesManualRunningOK
Normal No Yes
usbhci Microsoft USB 2.0 Enhanced Host Controller Miniport Driver
c:\windows\system32\drivers\usbhci.sysKernel DriverYesManualRunningOK
Normal No Yes
usbhub USB2 Enabled Hubc:\windows\system32\drivers\usbhub.sysKernel
Driver Yes Manual Running OK Normal No Yes
usbstor USB Mass Storage Driverc:\windows\system32\drivers\usbstor.sys
Kernel DriverNoManual Stopped OK Normal No No
usbuhci Microsoft USB Universal Host Controller Miniport Driver
c:\windows\system32\drivers\usbuhci.sysKernel DriverYesManualRunningOK
Normal No Yes
usb_rndisUSB Remote NDIS Network Device Driver
c:\windows\system32\drivers\usb8023.sysKernel DriverNoManualStoppedOK
Normal No No
vga vga c:\windows\system32\drivers\vgapnp.sysKernel DriverNo
Manual Stopped OK Ignore No No
vgasave VGA Display Controller.c:\windows\system32\drivers\vga.sysKernel
Driver Yes System Running OK Ignore No Yes
viaide ViaIde Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
volsnap Storage volumesc:\windows\system32\drivers\volsnap.sysKernel
Driver Yes Boot Running OK Normal No Yes
wanarp Remote Access IP ARP Driverc:\windows\system32\drivers\wanarp.sys
Kernel DriverYesManual Running OK Normal No Yes
wdica WDICA Not AvailableKernel DriverNoManualStoppedOK Ignore NoNo
wlbs Network Load Balancingc:\windows\system32\drivers\wlbs.sysKernel
Driver No Manual Stopped OK Normal No No

```

[Signed Drivers]

```

Device NameSignedDevice ClassDriver VersionDriver DateManufacturerINF
Name Driver NameDevice ID

```

[Environment Variables]

```

VariableValue User Name
ComSpec %SystemRoot%\system32\cmd.exe<SYSTEM>
Path
%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;C:\Program
Files (x86)\Microsoft SQL Server\80\Tools\Binn\;C:\Program
Files\Microsoft SQL Server\90\Tools\bin\;C:\Program Files
(x86)\Microsoft SQL Server\90\Tools\bin\;C:\Program Files
(x86)\Microsoft SQL Server\90\DTS\Binn\;C:\Program Files (x86)\Microsoft
SQL Server\90\Tools\Binn\VSShell\Common7\IDE\;c:\Program Files\Microsoft
SQL Server\90\DTS\Binn\<SYSTEM>
windir %SystemRoot%\<SYSTEM>
FP_NO_HOST_CHECKNO<SYSTEM>
OS Windows NT<SYSTEM>
PROCESSOR_ARCHITECTUREAMD64<SYSTEM>
PROCESSOR_LEVEL15<SYSTEM>
PROCESSOR_IDENTIFIERM64T Family 15 Model 6 Stepping 8, GenuineIntel
<SYSTEM>
PROCESSOR_REVISION0608<SYSTEM>
NUMBER_OF_PROCESSORS32<SYSTEM>
ClusterLogC:\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\TempNT AUTHORITY\SYSTEM
TMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\SYSTEM
TEMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\LOCAL SERVICE
TMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\LOCAL SERVICE
TEMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\NETWORK SERVICE
TMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\NETWORK SERVICE
TEMP %USERPROFILE%\Local Settings\TempUNISYS-MV-TPCC\Administrator
TMP %USERPROFILE%\Local Settings\TempUNISYS-MV-TPCC\Administrator

```

[Print Jobs]

```

DocumentSize Owner Notify Status Time SubmittedStart TimeUntil Time
Elapsed TimePages PrintedJob IDPriorityParametersDriverPrint Processor
Host Print QueueData TypeName

```

[Network Connections]

```
Local NameRemote NameTypeStatusUser Name
```

[Running Tasks]

```

Name Path Process IDPriorityMin Working SetMax Working SetStart Time
Version Size File Date
system idle processNot Available00Not AvailableNot Available
Not AvailableNot AvailableNot Available
system Not Available4 8 0 1413120 Not AvailableNot Available
Not AvailableNot Available
smss.exeNot Available89611 204800 1413120 3/7/2007 2:55 PMNot
AvailableNot AvailableNot Available
csrss.exeNot Available60813 Not AvailableNot Available3/7/2007 2:56 PM
Not AvailableNot Available
winlogon.exec:\windows\system32\winlogon.exe6441320480014131203/7/2007
2:56 PM 5.2.3790.1830 (srv03_spl_rtm.050324-1447)901.00 KB (922,624
bytes) 2/6/2007 12:01 PM
services.exec:\windows\system32\services.exe720920480014131203/7/2007
2:56 PM 5.2.3790.1830 (srv03_spl_rtm.050324-1447)216.50 KB (221,696
bytes) 2/6/2007 12:01 PM
lsass.exec:\windows\system32\lsass.exe732920480014131203/7/2007 2:56 PM
5.2.3790.1830 (srv03_spl_rtm.050324-1447)14.00 KB (14,336 bytes)4/4/2006
5:00 AM
svchost.exec:\windows\system32\svchost.exe1072820480014131203/7/2007 2:56
PM 5.2.3790.1830 (srv03_spl_rtm.050324-1447)24.50 KB (25,088 bytes)
2/6/2007 12:01 PM
svchost.exeNot Available11968 Not AvailableNot Available3/7/2007 2:56 PM
Not AvailableNot AvailableNot Available
svchost.exeNot Available12608 Not AvailableNot Available3/7/2007 2:56 PM
Not AvailableNot AvailableNot Available
svchost.exec:\windows\system32\svchost.exe1312820480014131203/7/2007 2:56
PM 5.2.3790.1830 (srv03_spl_rtm.050324-1447)24.50 KB (25,088 bytes)
2/6/2007 12:01 PM
svchost.exec:\windows\system32\svchost.exe1576820480014131203/7/2007 2:56
PM 5.2.3790.1830 (srv03_spl_rtm.050324-1447)24.50 KB (25,088 bytes)
2/6/2007 12:01 PM
mnmsrvc.exec:\windows\syswow64\mnmsrvc.exe1604820480014131203/7/2007 2:56
PM 5.2.3790.183032.00 KB (32,768 bytes)1/11/2007 3:18 PM
svchost.exeNot Available18608 Not AvailableNot Available3/7/2007 2:56 PM
Not AvailableNot AvailableNot Available
rundll32.exec:\windows\system32\rundll32.exe1892820480014131203/7/2007
2:56 PM 5.2.3790.1830 (srv03_spl_rtm.050324-1447)36.50 KB (37,376 bytes)
4/4/2006 5:00 AM
svchost.exec:\windows\system32\svchost.exe980820480014131203/7/2007 2:56
PM 5.2.3790.1830 (srv03_spl_rtm.050324-1447)24.50 KB (25,088 bytes)
2/6/2007 12:01 PM

```

```

wmiprvse.exeNot Available14008Not AvailableNot Available3/7/2007 2:56 PM
Not AvailableNot AvailableNot Available
explorer.exec:\windows\explorer.exe1524820480014131203/7/2007 2:56 PM
6.00.3790.1830 (srv03_spl_rtm.050324-1447)1.30 MB (1,364,480 bytes)2/6/
2007 12:01 PM
csrss.exeNot Available295213 Not AvailableNot Available3/7/2007 3:15 PM
Not AvailableNot AvailableNot Available
winlogon.exec:\windows\system32\winlogon.exe28961320480014131203/7/2007
3:15 PM 5.2.3790.1830 (srv03_spl_rtm.050324-1447)901.00 KB (922,624
bytes) 2/6/2007 12:01 PM
rdpclip.exec:\windows\system32\rdpclip.exe2164820480014131203/7/2007 3:15
PM 5.2.3790.1830 (srv03_spl_rtm.050324-1447)99.00 KB (101,376 bytes)
1/11/2007 3:14 PM
explorer.exec:\windows\explorer.exe2272820480014131203/7/2007 3:15 PM
6.00.3790.1830 (srv03_spl_rtm.050324-1447)1.30 MB (1,364,480 bytes)2/6/
2007 12:01 PM
cmd.exe c:\windows\system32\cmd.exe2804820480014131203/7/2007 7:27 PM
5.2.3790.1830 (srv03_spl_rtm.050324-1447)538.50 KB (551,424 bytes)2/6/
2007 12:01 PM
sqlservr.exec:\program files\microsoft sql
server\mssql.1\mssql\bin\sqlservr.exe5841320480014131203/7/2007 7:27 PM
2005.090.3033.0036.70 MB (38,483,744 bytes)2/22/2007 7:10 AM
osql.exec:\program files\microsoft sql server\90\tools\bin\osql.exe21768
204800 1413120 3/7/2007 7:37 PM2005.090.3033.0081.28 KB (83,232 bytes)12/
7/2006 6:14 AM
helpctr.exec:\windows\pchealth\helpctr\binaries\helpctr.exe13648204800
1413120 3/7/2007 7:46 PM5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.30 MB
(1,363,456 bytes)1/11/2007 3:17 PM
helpsvc.exec:\windows\pchealth\helpctr\binaries\helpsvc.exe11568204800
1413120 3/7/2007 7:46 PM5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.52 MB
(1,591,296 bytes)1/11/2007 3:17 PM
wmiprvse.exeNot Available1848 Not AvailableNot Available3/7/2007 7:46 PM
Not AvailableNot AvailableNot Available

```

[Loaded Modules]

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Name Version Size File DateManufacturerPath
winlogon5.2.3790.1830 (srv03_spl_rtm.050324-1447)901.00 KB (922,624
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\winlogon.exe
ntdll 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.20 MB (1,257,472
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\ntdll.dll
kernel325.2.3790.1830 (srv03_spl_rtm.050324-1447)1.43 MB (1,500,160
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\kernel32.dll
advapi325.2.3790.1830 (srv03_spl_rtm.050324-1447)1.00 MB (1,051,136
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\advapi32.dll
rpcrt4 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.63 MB (1,714,176
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\rpcrt4.dll
crypt32 5.131.3790.1830 (srv03_spl_rtm.050324-1447)1.36 MB (1,428,992
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\crypt32.dll
msasn1 5.2.3790.1830 (srv03_spl_rtm.050324-1447)152.50 KB (156,160
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\msasn1.dll
msvcrt 7.0.3790.1830 (srv03_spl_rtm.050324-1447)508.00 KB (520,192
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\msvcrt.dll
user32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.04 MB (1,085,952
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\user32.dll
gdi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)592.00 KB (606,208
bytes) 2/6/2007 12:01 PMMicrosoft Corporation

```

c:\windows\system32\gdi32.dll
 nddeapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)25.00 KB (25,600 bytes)
 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\nddeapi.dll
 profmap 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)36.00 KB (36,864 bytes)
 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\profmap.dll
 netapi32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)589.00 KB (603,136 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\netapi32.dll
 userenv 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)1.02 MB (1,069,056 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\userenv.dll
 psapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)29.00 KB (29,696 bytes)
 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\psapi.dll
 regapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)108.50 KB (111,104 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\regapi.dll
 secur32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)120.00 KB (122,880 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\secur32.dll
 setupapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)1.45 MB (1,523,200 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\setupapi.dll
 version 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)28.00 KB (28,672 bytes)
 4/4/2006 5:00 AMMicrosoft Corporationc:\windows\system32\version.dll
 winsta 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)89.00 KB (91,136 bytes)
 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\winsta.dll
 ws2 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)176.50 KB (180,736 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\ws2_32.dll
 ws2help 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)30.50 KB (31,232 bytes)
 4/4/2006 5:00 AMMicrosoft Corporationc:\windows\system32\ws2help.dll
 msgina 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)1.14 MB (1,193,472 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\msgina.dll
 shsvcs 6.00.3790.1830 (srv03_sp1_rtm.050324-1447)193.50 KB (198,144 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\shsvcs.dll
 shlwapi 6.00.3790.1830 (srv03_sp1_rtm.050324-1447)606.50 KB (621,056 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\shlwapi.dll
 sfc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)6.00 KB (6,144 bytes)4/4/2006 5:00 AMMicrosoft Corporationc:\windows\system32\sfc.dll
 sfc_os 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)183.50 KB (187,904 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\sfc_os.dll
 wintrust 5.131.3790.1830 (srv03_sp1_rtm.050324-1447)297.50 KB (304,640 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\wintrust.dll
 imagehlp 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)57.50 KB (58,880 bytes)
 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\imagehlp.dll
 ole32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)2.43 MB (2,543,616 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\ole32.dll
 comctl32 6.0 (srv03_sp1_rtm.050324-1447)1.51 MB (1,584,128 bytes)1/11/2007 6:42 AMMicrosoft Corporation
 c:\windows\winsxs\amd64_microsoft.windows.common-controls_6595b64144ccf1df_6.0.3790.1830_x-ww_aced72af\comctl32.dll
 wincard 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)230.00 KB (235,520 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
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 wtsapi32 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)29.00 KB (29,696 bytes)
 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\wtsapi32.dll
 winmm 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)303.50 KB (310,784 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\winmm.dll
 xsx 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)1.91 MB (2,003,968

bytes) 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\xsx.dll
 shell32 6.00.3790.1830 (srv03_sp1_rtm.050324-1447)10.01 MB (10,492,416 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\shell32.dll
 rsaenh 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)241.96 KB (247,768 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\rsaenh.dll
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 2/6/2007 12:01 PMMicrosoft Corporation
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 csddl 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)151.50 KB (155,136 bytes)
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 c:\windows\system32\csddl.dll
 dimsntfy 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)28.00 KB (28,672 bytes)
 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\dimsntfy.dll
 wlnotify 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)148.00 KB (151,552 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\wlnotify.dll
 mpr 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)115.00 KB (117,760 bytes)
 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\mpr.dll
 oleaut32 5.2.3790.18301.06 MB (1,116,160 bytes)2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\oleaut32.dll
 winspool 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)247.00 KB (252,928 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\winspool.drv
 comctl32 5.2.82 (srv03_sp1_rtm.050324-1447)934.50 KB (956,928 bytes)1/11/2007 6:42 AMMicrosoft Corporation
 c:\windows\winsxs\amd64_microsoft.windows.common-controls_6595b64144ccf1df_5.82.3790.1830_x-ww_4d792d2a\comctl32.dll
 uxtheme 6.00.3790.1830 (srv03_sp1_rtm.050324-1447)494.50 KB (506,368 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\uxtheme.dll
 samlib 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)69.00 KB (70,656 bytes)
 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\samlib.dll
 clbcatq 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447)865.00 KB (885,760 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\clbcatq.dll
 comres 2001.12.4720.1830 (srv03_sp1_rtm.050324-1447)779.50 KB (798,208 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\comres.dll
 xpss2res 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)2.77 MB (2,899,456 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\xpss2res.dll
 cscuri 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)441.00 KB (451,584 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\cscuri.dll
 ntmarta 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)222.50 KB (227,840 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\ntmarta.dll
 wbemprox 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)38.00 KB (38,912 bytes)
 1/11/2007 3:14 PMMicrosoft Corporation
 c:\windows\system32\wbem\wbemprox.dll
 wbemcomn5 2.3790.1830 (srv03_sp1_rtm.050324-1447)524.00 KB (536,576 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\wbem\wbemcomn.dll
 wbemsvc 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)58.00 KB (59,392 bytes)
 1/11/2007 3:14 PMMicrosoft Corporation
 c:\windows\system32\wbem\wbemsvc.dll
 fastprox 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)866.50 KB (887,296 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\wbem\fastprox.dll
 msvc60 7.0.3790.1830 (srv03_sp1_rtm.050324-1447)919.50 KB (941,568 bytes)
 4/4/2006 5:00 AMMicrosoft Corporation
 c:\windows\system32\msvc60.dll
 ntdsapi 5.2.3790.1830 (srv03_sp1_rtm.050324-1447)127.50 KB (130,560 bytes)
 2/6/2007 12:01 PMMicrosoft Corporation

c:\windows\system32\ntdsapi.dll
 dnsapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)297.50 KB (304,640 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\dnsapi.dll
 services5.2.3790.1830 (srv03_spl_rtm.050324-1447)216.50 KB (221,696 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\services.exe
 ncobjapi5.2.3790.1830 (srv03_spl_rtm.050324-1447)80.00 KB (81,920 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\ncobjapi.dll
 scesrv 5.2.3790.1830 (srv03_spl_rtm.050324-1447)594.50 KB (608,768 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\scesrv.dll
 authz 5.2.3790.1830 (srv03_spl_rtm.050324-1447)167.00 KB (171,008 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\authz.dll
 umpnpgmr5.2.3790.1830 (srv03_spl_rtm.050324-1447)205.00 KB (209,920 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\umpnpgmr.dll
 eventlog5.2.3790.1830 (srv03_spl_rtm.050324-1447)127.00 KB (130,048 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\eventlog.dll
 lsass 5.2.3790.1830 (srv03_spl_rtm.050324-1447)14.00 KB (14,336 bytes) 4/4/2006 5:00 AMMicrosoft Corporation
 c:\windows\system32\lsass.exe
 lsasrv 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.50 MB (1,568,256 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\lsasrv.dll
 samsrv 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.01 MB (1,059,328 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\samsrv.dll
 cryptdll5.2.3790.1830 (srv03_spl_rtm.050324-1447)47.00 KB (48,128 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\cryptdll.dll
 msprivs 5.2.3790.1830 (srv03_spl_rtm.050324-1447)47.50 KB (48,640 bytes) 4/4/2006 5:00 AMMicrosoft Corporation
 c:\windows\system32\msprivs.dll
 kerberos5.2.3790.1830 (srv03_spl_rtm.050324-1447)698.00 KB (714,752 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\kerberos.dll
 msvl0 5.2.3790.1830 (srv03_spl_rtm.050324-1447)253.00 KB (259,072 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\msvl0.dll
 iphlpapi5.2.3790.1830 (srv03_spl_rtm.050324-1447)177.00 KB (181,248 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\iphlpapi.dll
 netlogon5.2.3790.1830 (srv03_spl_rtm.050324-1447)666.00 KB (681,984 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\netlogon.dll
 w32time 5.2.3790.1830 (srv03_spl_rtm.050324-1447)400.50 KB (410,112 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\w32time.dll
 schannel5.2.3790.1830 (srv03_spl_rtm.050324-1447)248.00 KB (253,952 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\channel.dll
 wdigest 5.2.3790.1830 (srv03_spl_rtm.050324-1447)130.50 KB (133,632 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\wdigest.dll
 rassfm 5.2.3790.1830 (srv03_spl_rtm.050324-1447)36.00 KB (36,864 bytes) 4/4/2006 5:00 AMMicrosoft Corporation
 c:\windows\system32\rassfm.dll
 kdcsvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)409.00 KB (418,816 bytes) 2/6/2007 12:02 PMMicrosoft Corporation
 c:\windows\system32\kdcsvc.dll
 ntdsa 5.2.3790.1830 (srv03_spl_rtm.050324-1447)2.81 MB (2,948,096 bytes) 2/6/2007 12:02 PMMicrosoft Corporation
 c:\windows\system32\ntdsa.dll
 esent 5.2.3790.1830 (srv03_spl_rtm.050324-1447)2.26 MB (2,366,976 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\esent.dll
 ntdsatq 5.2.3790.1830 (srv03_spl_rtm.050324-1447)51.00 KB (52,224 bytes)

4/4/2006 5:00 AMMicrosoft Corporation
 c:\windows\system32\ntdsatq.dll
 mswsock 5.2.3790.1830 (srv03_spl_rtm.050324-1447)478.00 KB (489,472 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\mswsock.dll
 scecli 5.2.3790.1830 (srv03_spl_rtm.050324-1447)308.00 KB (315,392 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\scecli.dll
 ws03res 5.2.3790.1830 (srv03_spl_rtm.050324-1447)794.00 KB (813,056 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\ws03res.dll
 pstorsvc5.2.3790.1830 (srv03_spl_rtm.050324-1447)36.00 KB (36,864 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\pstorsvc.dll
 psbase 5.2.3790.1830 (srv03_spl_rtm.050324-1447)124.00 KB (126,976 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\psbase.dll
 hnetcfg 5.2.3790.1830 (srv03_spl_rtm.050324-1447)561.00 KB (574,464 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\hnetcfg.dll
 wshtcpip5.2.3790.1830 (srv03_spl_rtm.050324-1447)29.00 KB (29,696 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\wshtcpip.dll
 dsenh 5.2.3790.1830 (srv03_spl_rtm.050324-1447)226.96 KB (232,408 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\dsenh.dll
 cryptnet5.131.3790.1830 (srv03_spl_rtm.050324-1447)108.50 KB (111,104 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\cryptnet.dll
 sensapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)10.50 KB (10,752 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\sensapi.dll
 cabinet 5.2.3790.1830 (srv03_spl_rtm.050324-1447)138.50 KB (141,824 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\cabinet.dll
 winhttp 5.2.3790.1830 (srv03_spl_rtm.050324-1447)508.50 KB (520,704 bytes) 1/11/2007 6:42 AMMicrosoft Corporation
 c:\windows\winsxs\amd64_microsoft.windows.winhttp_6595b64144ccf1df_5.1.3790.1830_x-wx_a61ef4db\winhttp.dll
 rasapi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)410.00 KB (419,840 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\rasapi32.dll
 rasman 5.2.3790.1830 (srv03_spl_rtm.050324-1447)95.50 KB (97,792 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\rasman.dll
 tapi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)332.50 KB (340,480 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\tapi32.dll
 rtutils 5.2.3790.1830 (srv03_spl_rtm.050324-1447)66.00 KB (67,584 bytes) 4/4/2006 5:00 AMMicrosoft Corporation
 c:\windows\system32\rtutils.dll
 winnr 5.2.3790.1830 (srv03_spl_rtm.050324-1447)30.00 KB (30,720 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\winnr.dll
 netman 5.2.3790.1830 (srv03_spl_rtm.050324-1447)457.00 KB (467,968 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\netman.dll
 mprapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)154.50 KB (158,208 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\mprapi.dll
 activeds 5.2.3790.1830 (srv03_spl_rtm.050324-1447)348.50 KB (356,864 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\activeds.dll
 adslrpc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)240.50 KB (246,272 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\adslrpc.dll
 credui 5.2.3790.1830 (srv03_spl_rtm.050324-1447)202.00 KB (206,848 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
 c:\windows\system32\credui.dll
 atl 3.05.228496.50 KB (98,816 bytes) 4/4/2006 5:00 AMMicrosoft Corporation
 c:\windows\system32\atl.dll
 netshell 5.2.3790.1830 (srv03_spl_rtm.050324-1447)2.32 MB (2,437,120 bytes) 2/6/2007 12:01 PMMicrosoft Corporation

```

c:\windows\system32\netshell.dll
clusapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)127.00 KB (130,048
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\clusapi.dll
wininet 6.00.3790.1830 (srv03_spl_rtm.050324-1447)1.13 MB (1,186,304
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wininet.dll
wzcsapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)49.00 KB (50,176 bytes)
2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\wzcsapi.dll
wzcsvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)492.00 KB (503,808
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wzcsvc.dll
wmi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)5.50 KB (5,632 bytes)4/
4/2006 5:00 AMMicrosoft Corporationc:\windows\system32\wmi.dll
dhcpcsvc5.2.3790.1830 (srv03_spl_rtm.050324-1447)219.00 KB (224,256
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\dhcpcsvc.dll
rasadhlp5.2.3790.1830 (srv03_spl_rtm.050324-1447)12.00 KB (12,288 bytes)
2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\rasadhlp.dll
svchost 5.2.3790.1830 (srv03_spl_rtm.050324-1447)24.50 KB (25,088 bytes)
2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\svchost.exe
rpcss 5.2.3790.1830 (srv03_spl_rtm.050324-1447)672.00 KB (688,128
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\rpcss.dll
wkssvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)221.00 KB (226,304
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wkssvc.dll
wiarp 5.2.3790.1830 (srv03_spl_rtm.050324-1447)57.00 KB (58,368 bytes)
2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\wiarp.dll
dmserver5.2.3790.1830 (srv03_spl_rtm.050324-1447)36.50 KB (37,376 bytes)
2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\dmserver.dll
es 2001.12.4720.1830 (srv03_spl_rtm.050324-1447)357.00 KB (365,568
bytes) 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\es.dll
srsvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)156.50 KB (160,256
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\srsvc.dll
seclogon5.2.3790.1830 (srv03_spl_rtm.050324-1447)27.50 KB (28,160 bytes)
2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\seclogon.dll
sens 5.2.3790.1830 (srv03_spl_rtm.050324-1447)63.50 KB (65,024 bytes)
2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\sens.dll
wmisvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)227.00 KB (232,448
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wbem\wmisvc.dll
vssapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.26 MB (1,320,960
bytes) 2/6/2007 12:02 PMMicrosoft Corporation
c:\windows\system32\vssapi.dll
comsvcs 2001.12.4720.1830 (srv03_spl_rtm.050324-1447)2.06 MB (2,156,544
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\comsvcs.dll
wbemcore5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.24 MB (1,299,968
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wbem\wbemcore.dll
esscli 5.2.3790.1830 (srv03_spl_rtm.050324-1447)626.50 KB (641,536
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wbem\esscli.dll
wmiutils5.2.3790.1830 (srv03_spl_rtm.050324-1447)171.00 KB (175,104
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wbem\wmiutils.dll
repdrvfs5.2.3790.1830 (srv03_spl_rtm.050324-1447)353.50 KB (361,984
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wbem\repdrvfs.dll
wmiprvds5.2.3790.1830 (srv03_spl_rtm.050324-1447)743.00 KB (760,832
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wbem\wmiprvds.dll
wbemess 5.2.3790.1830 (srv03_spl_rtm.050324-1447)532.50 KB (545,280
bytes) 2/6/2007 12:01 PMMicrosoft Corporation

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c:\windows\system32\wbem\wbemess.dll
ncprov 5.2.3790.1830 (srv03_spl_rtm.050324-1447)73.00 KB (74,752 bytes)
1/11/2007 3:14 PMMicrosoft Corporationc:\windows\system32\wbem\ncprov.dll
rasdlg 5.2.3790.1830 (srv03_spl_rtm.050324-1447)859.50 KB (880,128
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\rasdlg.dll
cryptsvc5.2.3790.1830 (srv03_spl_rtm.050324-1447)114.00 KB (116,736
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\cryptsvc.dll
certcli 5.2.3790.1830 (srv03_spl_rtm.050324-1447)372.00 KB (380,928
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\certcli.dll
pchsvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)76.00 KB (77,824 bytes)
2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\pchsvc.dll
wbemcons5.2.3790.1830 (srv03_spl_rtm.050324-1447)65.50 KB (67,072 bytes)
1/11/2007 3:14 PMMicrosoft Corporation
c:\windows\system32\wbem\wbemcons.dll
ersvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)31.00 KB (31,744 bytes)
4/4/2006 5:00 AMMicrosoft Corporationc:\windows\system32\ersvc.dll
mmmsrv 5.2.3790.183032.00 KB (32,768 bytes)1/11/2007 3:18 PMMicrosoft
Corporationc:\windows\syswow64\mmmsrv.exe
wow64 5.2.3790.1830 (srv03_spl_rtm.050324-1447)245.00 KB (250,880
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wow64.dll
wow64win5.2.3790.1830 (srv03_spl_rtm.050324-1447)280.00 KB (286,720
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\wow64win.dll
wow64cpu5.2.3790.1830 (srv03_spl_rtm.050324-1447)18.50 KB (18,944 bytes)
4/4/2006 5:00 AMMicrosoft Corporationc:\windows\system32\wow64cpu.dll
rundll325.2.3790.1830 (srv03_spl_rtm.050324-1447)36.50 KB (37,376 bytes)
4/4/2006 5:00 AMMicrosoft Corporationc:\windows\system32\rundll32.exe
termsrv 5.2.3790.1830 (srv03_spl_rtm.050324-1447)354.50 KB (363,008
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\termsrv.dll
icaapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)27.50 KB (28,160 bytes)
1/11/2007 3:14 PMMicrosoft Corporationc:\windows\system32\icaapi.dll
mstlsapi5.2.3790.1830 (srv03_spl_rtm.050324-1447)187.00 KB (191,488
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\mstlsapi.dll
rdpwsx 5.2.3790.1830 (srv03_spl_rtm.050324-1447)170.13 KB (174,216
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\rdpwsx.dll
explorer6.00.3790.1830 (srv03_spl_rtm.050324-1447)1.30 MB (1,364,480
bytes) 2/6/2007 12:01 PMMicrosoft Corporationc:\windows\explorer.exe
browseui6.00.3790.2643 (srv03_spl_rtm.050324-1447)1.53 MB (1,604,608
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\browseui.dll
shdocvw 6.00.3790.2643 (srv03_spl_rtm.050324-1447)2.32 MB (2,433,536
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\shdocvw.dll
cryptui 5.131.3790.1830 (srv03_spl_rtm.050324-1447)705.50 KB (722,432
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\cryptui.dll
apphelp 5.2.3790.1830 (srv03_spl_rtm.050324-1447)241.00 KB (246,784
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\apphelp.dll
themeui 6.00.3790.1830 (srv03_spl_rtm.050324-1447)530.50 KB (543,232
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\themeui.dll
msimg32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)6.50 KB (6,656 bytes)4/
4/2006 5:00 AMMicrosoft Corporationc:\windows\system32\msimg32.dll
linkinfo5.2.3790.1830 (srv03_spl_rtm.050324-1447)30.00 KB (30,720 bytes)
2/6/2007 12:01 PMMicrosoft Corporationc:\windows\system32\linkinfo.dll
ntshrui 6.00.3790.1830 (srv03_spl_rtm.050324-1447)184.00 KB (188,416
bytes) 2/6/2007 12:01 PMMicrosoft Corporation

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c:\windows\system32\ntshrui.dll
urlmon 6.00.3790.2612 (srv03_spl_gdr.060106-1531)1.03 MB (1,081,856 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\urlmon.dll
msi 3.1.4000.18304.27 MB (4,476,416 bytes)2/6/2007 12:01 PMMicrosoft Corporation;c:\windows\system32\msi.dll
webcheck6.00.3790.1830 (srv03_spl_rtm.050324-1447)439.00 KB (449,536 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\webcheck.dll
wsock32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)24.50 KB (25,088 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\wsock32.dll
stobject5.2.3790.1830 (srv03_spl_rtm.050324-1447)142.50 KB (145,920 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\stobject.dll
batmeter6.00.3790.1830 (srv03_spl_rtm.050324-1447)41.50 KB (42,496 bytes) 2/6/2007 12:01 PMMicrosoft Corporation;c:\windows\system32\batmeter.dll
powrprof6.00.3790.1830 (srv03_spl_rtm.050324-1447)32.50 KB (33,280 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\powrprof.dll
drprov 5.2.3790.1830 (srv03_spl_rtm.050324-1447)24.00 KB (24,576 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\drprov.dll
ntlanman5.2.3790.1830 (srv03_spl_rtm.050324-1447)71.50 KB (73,216 bytes) 2/6/2007 12:01 PMMicrosoft Corporation;c:\windows\system32\ntlanman.dll
netui0 5.2.3790.1830 (srv03_spl_rtm.050324-1447)130.00 KB (133,120 bytes) 4/4/2006 5:00 AMMicrosoft Corporation
c:\windows\system32\netui0.dll
netui1 5.2.3790.1830 (srv03_spl_rtm.050324-1447)338.50 KB (346,624 bytes) 4/4/2006 5:00 AMMicrosoft Corporation
c:\windows\system32\netui1.dll
davclnt 5.2.3790.1830 (srv03_spl_rtm.050324-1447)38.00 KB (38,912 bytes) 2/6/2007 12:01 PMMicrosoft Corporation;c:\windows\system32\davclnt.dll
browsei6 6.00.3790.1830 (srv03_spl_rtm.050324-1447)63.00 KB (64,512 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\browsei6.dll
shdoclc 6.00.3790.1830 (srv03_spl_rtm.050324-1447)589.50 KB (603,648 bytes) 4/4/2006 5:00 AMMicrosoft Corporation
c:\windows\system32\shdoclc.dll
rdpsnd 5.2.3790.1830 (srv03_spl_rtm.050324-1447)25.00 KB (25,600 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\rdpsnd.dll
scredir 5.2.3790.1830 (srv03_spl_rtm.050324-1447)38.50 KB (39,424 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\scredir.dll
msacm32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)31.00 KB (31,744 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\msacm32.drv
msacm32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)112.00 KB (114,688 bytes) 4/4/2006 5:00 AMMicrosoft Corporation
c:\windows\system32\msacm32.dll
imaadp32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)24.00 KB (24,576 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\imaadp32.acm
msadp32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)23.50 KB (24,064 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\msadp32.acm
msg711 5.2.3790.1830 (srv03_spl_rtm.050324-1447)13.50 KB (13,824 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\msg711.acm
msgsm32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)34.50 KB (35,328 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\msgsm32.acm
tssoft32 1.03 13.50 KB (13,824 bytes)4/4/2006 5:00 AMDSP GROUP, INC.
c:\windows\system32\tssoft32.acm
tsd32 1.03 24.50 KB (25,088 bytes)4/4/2006 5:00 AMDSP GROUP, INC.
c:\windows\system32\tsd32.dll
rdpclip 5.2.3790.1830 (srv03_spl_rtm.050324-1447)99.00 KB (101,376 bytes) 1/11/2007 3:14 PMMicrosoft Corporation;c:\windows\system32\rdpclip.exe
cmd 5.2.3790.1830 (srv03_spl_rtm.050324-1447)538.50 KB (551,424 bytes) 2/6/2007 12:01 PMMicrosoft Corporation;c:\windows\system32\cmd.exe
sqlservr2005.090.3033.0036.70 MB (38,483,744 bytes)2/22/2007 7:10 AM Microsoft Corporation;c:\program files\microsoft sql server\mssql.1\mssql\bin\sqlservr.exe
msvcr80 8.00.50727.42803.50 KB (822,784 bytes)9/23/2005 12:26 AMMicrosoft Corporation
c:\windows\winsxs\amd64_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50727.42_

x-ww_3fea50ad\msvcr80.dll
msvcpc80 8.00.50727.421.05 MB (1,097,728 bytes)9/23/2005 12:28 AMMicrosoft Corporation
c:\windows\winsxs\amd64_microsoft.vc80.crt_1fc8b3b9a1e18e3b_8.0.50727.42_x-ww_3fea50ad\msvcpc80.dll
opends60 2005.090.1399.0022.21 KB (22,744 bytes)10/14/2005 3:31 PM Microsoft Corporation;c:\program files\microsoft sql server\mssql.1\mssql\bin\opends60.dll
instapi 2005.090.1399.0040.71 KB (41,688 bytes)10/14/2005 3:23 PM Microsoft Corporation;c:\program files\microsoft sql server\90\shared\instapi.dll
sqllevn70 2005.090.3033.001.66 MB (1,738,016 bytes)12/7/2006 6:14 AM Microsoft Corporation;c:\program files\microsoft sql server\mssql.1\mssql\bin\resources\1033\sqllevn70.rll
sqlos 2005.090.3033.0015.28 KB (15,648 bytes)12/7/2006 6:14 AMMicrosoft Corporation;c:\program files\microsoft sql server\mssql.1\mssql\bin\sqlos.dll
mscoree 2.0.50727.42 (RTM.050727-4200)441.00 KB (451,584 bytes)9/23/2005 12:37 AMMicrosoft Corporation;c:\windows\system32\mscoree.dll
xolehlp 2001.12.4720.1830 (srv03_spl_rtm.050324-1447)10.50 KB (10,752 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\xolehlp.dll
msdtcprx2001.12.4720.1830 (srv03_spl_rtm.050324-1447)805.50 KB (824,832 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\msdtcprx.dll
mtxclu 2001.12.4720.1830 (srv03_spl_rtm.050324-1447)141.50 KB (144,896 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\mtxclu.dll
resutils 5.2.3790.1830 (srv03_spl_rtm.050324-1447)98.50 KB (100,864 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\resutils.dll
security5 2.3790.1830 (srv03_spl_rtm.050324-1447)6.00 KB (6,144 bytes)4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\security.dll
uviol 2.339.0.1466.50 KB (68,096 bytes)2/8/2007 9:35 AMUNISYS
c:\windows\system32\uviol.dll
osql 2005.090.3033.0081.28 KB (83,232 bytes)12/7/2006 6:14 AMMicrosoft Corporation;c:\program files\microsoft sql server\90\tools\bin\osql.exe
odbc32 3.526.1830.0 (srv03_spl_rtm.050324-1447)408.00 KB (417,792 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\odbc32.dll
comdlg32 6.00.3790.1830 (srv03_spl_rtm.050324-1447)446.50 KB (457,216 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\comdlg32.dll
odbcint 3.526.1830.0 (srv03_spl_rtm.050324-1447)96.00 KB (98,304 bytes)4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\odbcint.dll
osql 2005.090.1399.0015.21 KB (15,576 bytes)10/14/2005 3:31 PM Microsoft Corporation;c:\program files\microsoft sql server\90\tools\bin\resources\1033\osql.rll
sqlncli 2005.090.3033.002.73 MB (2,865,440 bytes)12/7/2006 6:14 AM Microsoft Corporation;c:\windows\system32\sqlncli.dll
sqlnclir 2005.090.1399.00201.21 KB (206,040 bytes)10/14/2005 3:31 PM Microsoft Corporation;c:\windows\system32\sqlnclir.rll
helpctr 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.30 MB (1,363,456 bytes) 1/11/2007 3:17 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\helpctr.exe
hcappres 5.2.3790.1830 (srv03_spl_rtm.050324-1447)7.50 KB (7,680 bytes)1/11/2007 3:17 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\hcappres.dll
itss 5.2.3790.1830 (srv03_spl_rtm.050324-1447)208.00 KB (212,992 bytes) 4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\itss.dll
msxml3 8.70.1104.02.04 MB (2,141,184 bytes)4/4/2006 5:00 AMMicrosoft Corporation;c:\windows\system32\msxml3.dll
pchshell5 2.3790.1830 (srv03_spl_rtm.050324-1447)155.00 KB (158,720 bytes) 1/11/2007 3:17 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\pchshell.dll
mlang 6.00.3790.1830 (srv03_spl_rtm.050324-1447)686.00 KB (702,464 bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\mlang.dll

```

mshtml 6.00.3790.2643 (srv03_spl_gdr.060220-1550)5.70 MB (5,978,112
bytes) 4/4/2006 5:00 AMMicrosoft Corporation
c:\windows\system32\mshtml.dll
msls31 3.10.349.0357.00 KB (365,568 bytes)4/4/2006 5:00 AMMicrosoft
Corporationc:\windows\system32\msls31.dll
msimtf 5.2.3790.1830 (srv03_spl_rtm.050324-1447)380.50 KB (389,632
bytes) 4/4/2006 5:00 AMMicrosoft Corporation
c:\windows\system32\msimtf.dll
msctf 5.2.3790.1830 (srv03_spl_rtm.050324-1447)617.50 KB (632,320
bytes) 4/4/2006 5:00 AMMicrosoft Corporation
c:\windows\system32\msctf.dll
jscript 5.6.0.8827974.50 KB (997,888 bytes)4/4/2006 5:00 AMMicrosoft
Corporationc:\windows\system32\jscript.dll
imm32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)208.00 KB (212,992
bytes) 2/6/2007 12:01 PMMicrosoft Corporation
c:\windows\system32\imm32.dll
mshtml6.00.3790.1830 (srv03_spl_rtm.050324-1447)905.50 KB (927,232
bytes) 4/4/2006 5:00 AMMicrosoft Corporation
c:\windows\system32\mshtml6.dll
vbscript5.6.0.8827646.50 KB (662,016 bytes)4/4/2006 5:00 AMMicrosoft
Corporationc:\windows\system32\vbscript.dll
msinfo 5.2.3790.1830 (srv03_spl_rtm.050324-1447)636.00 KB (651,264
bytes) 1/11/2007 3:17 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo.dll
mfc42u 6.50.9146.01.39 MB (1,462,272 bytes)4/4/2006 5:00 AMMicrosoft
Corporationc:\windows\system32\mfc42u.dll
riched325.2.3790.1830 (srv03_spl_rtm.050324-1447)7.00 KB (7,168 bytes)4/
4/2006 5:00 AMMicrosoft Corporationc:\windows\system32\riched32.dll
riched205.31.23.12241.10 MB (1,157,120 bytes)4/4/2006 5:00 AMMicrosoft
Corporationc:\windows\system32\riched20.dll
helpsvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.52 MB (1,591,296
bytes) 1/11/2007 3:17 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\helpsvc.exe

```

[Services]

```

Display NameNameState Start ModeService TypePathError ControlStart Name
Tag ID
Application Experience Lookup ServiceAeLookupSvcStoppedManualShare
Process c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Alerter Alerter Stopped DisabledShare Process
c:\windows\system32\svchost.exe -k localservecNormalNT
AUTHORITY\LocalService0
Application Layer Gateway ServiceALGStoppedManualOwn Process
c:\windows\system32\alg.exeNormalNT AUTHORITY\LocalService0
Application ManagementAppMgmtStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
ASP.NET State Serviceaspnet_stateStoppedManualOwn Process
c:\windows\microsoft.net\framework64\v2.0.50727\aspnet_state.exeNormalNT
AUTHORITY\NetworkService0
Windows AudioAudioSrvStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Background Intelligent Transfer ServiceBITSStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Computer BrowserBrowserSvcStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Indexing ServiceCISvcStoppedDisabledShare Process
c:\windows\system32\cisvc.exeNormalLocalSystem0
ClipBookClipSrvStopped DisabledNormal Processc:\windows\system32\clipsrv.exe
Normal LocalSystem0
.NET Runtime Optimization Service v2.0.50727_X86
clr_optimization_v2.0.50727_32StoppedManualOwn Process
c:\windows\microsoft.net\framework\v2.0.50727\mscorsvw.exeIgnore
LocalSystem0
.NET Runtime Optimization Service v2.0.50727_x64
clr_optimization_v2.0.50727_64StoppedManualOwn Process

```

```

c:\windows\microsoft.net\framework64\v2.0.50727\mscorsvw.exeIgnore
LocalSystem0
COM+ System ApplicationCOMSysAppStoppedManualOwn Process
c:\windows\system32\dllhost.exe /processid:{02d4b3f1-fd88-11d1-960d-
00805fc79235}NormalLocalSystem0
Cryptographic ServicesCryptSvcRunningManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
DCOM Server Process LauncherDcomLaunchRunningAutoShare Process
c:\windows\system32\svchost.exe -k dcomlaunchNormalLocalSystem0
Distributed File SystemDfsStoppedManualOwn Process
c:\windows\system32\dfssvc.exeNormalLocalSystem0
DHCP ClientDhcpStopped DisabledShare Process
c:\windows\system32\svchost.exe -k networkserviceNormalNT
AUTHORITY\NetworkService0
Logical Disk Manager Administrative ServicedmadminStoppedManualShare
Process c:\windows\system32\dmadmin.exe /comNormalLocalSystem0
Logical Disk ManagerdmserverRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
DNS ClientDnscacheStoppedManualShare Process
c:\windows\system32\svchost.exe -k networkserviceNormalNT
AUTHORITY\NetworkService0
Emulex HBA DiscoveryEmulex HBA DiscoveryStoppedManualOwn Process
c:\program files (x86)\hanyware\hbadiscsrvr.exeNormalLocalSystem0
Emulex HBA ManagementEmulex HBA ManagementStoppedManualOwn Process
c:\program files (x86)\hanyware\rmsrvr.exeNormalLocalSystem0
Emulex SvcMgrEmulex SvcMgrStoppedManualOwn Processc:\program files
(x86)\hanyware\hahsmgr.exeNormalLocalSystem0
Error Reporting ServiceERSvcRunningAutoShare Process
c:\windows\system32\svchost.exe -k winerrIgnoreLocalSystem0
Event LogEventlogRunningAuto Share Process
c:\windows\system32\services.exeNormalLocalSystem0
COM+ Event SystemEventSystemRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Help and SupporthelpsvcRunningManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Human Interface Device AccessHidServStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
HTTP SSLHTTPFilterStoppedManualShare Processc:\windows\system32\lsass.exe
Normal LocalSystem0
IAS Jet Database AccessIASJetStoppedManualShare Process
c:\windows\syswow64\svchost.exe -k iasjetNormalLocalSystem0
InstallDriver Table ManagerIDriverTStoppedManualOwn Process"c:\program
files (x86)\common files\installshield\driver\1150\intel_32\idrvrt.exe
"Ignore LocalSystem0
IMAPI CD-Burning COM ServiceImapiServiceStoppedDisabledOwn Process
c:\windows\system32\imapi.exeNormalLocalSystem0
Intersite MessagingIsmServStoppedDisabledOwn Process
c:\windows\system32\ismserv.exeNormalLocalSystem0
Kerberos Key Distribution CenterkdcStoppedDisabledShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Server lanmanserverRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
WorkstationlanmanworkstationRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
License LoggingLicenseServiceStoppedDisabledOwn Process
c:\windows\system32\llssrv.exeNormalNT AUTHORITY\NetworkService0
TCP/IP NetBIOS HelperLmHostsRunningAutoShare Process
c:\windows\system32\svchost.exe -k localservecNormalNT
AUTHORITY\LocalService0
MessengerMessengerStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
NetMeeting Remote Desktop SharingmmsrvcRunningAutoOwn Process
c:\windows\system32\mnmsrvc.exeNormalLocalSystem0
Distributed Transaction CoordinatorMSDTCStoppedManualOwn Process
c:\windows\system32\msdtc.exeNormalNT AUTHORITY\NetworkService0
Windows InstallerMSIServerStoppedManualShare Process

```

```

c:\windows\system32\msiexec.exe /vNormalLocalSystem0
SQL Server (MSSQLSERVER)MSSQLSERVERStoppedManualOwn Process"c:\program
files\microsoft sql server\mssql.1\mssql\bin\sqlservr.exe" -smssqlserver
Normal NT AUTHORITY\NetworkService0
SQL Server Active Directory HelperMSSQLServerADHelperStoppedDisabledOwn
Process"c:\program files\microsoft sql server\90\shared\sqladhlp90.exe
"Normal NT AUTHORITY\NetworkService0
Network DDENetDDEStoppedDisabledShare Process
c:\windows\system32\netdde.exeNormalLocalSystem0
Network DDE DSDMNetDDEdsdmStoppedDisabledShare Process
c:\windows\system32\netdde.exeNormalLocalSystem0
Net LogonNetLogonStoppedManualShare Processc:\windows\system32\lsass.exe
Normal LocalSystem0
Network ConnectionsNetmanRunningManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Network Location Awareness (NLA)NlaRunningManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
File ReplicationNtFrnsStoppedManualOwn Process
c:\windows\system32\ntfrs.exeIgnoreLocalSystem0
NT LM Security Support ProviderNtLmSspStoppedManualShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Removable StorageNtmsSvcStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Office Source EngineoseStoppedManualOwn Process"c:\program files
(x86)\common files\microsoft shared\source engine\ose.exe"Normal
LocalSystem0
Plug and PlayPlugPlayRunningAutoShare Process
c:\windows\system32\services.exeNormalLocalSystem0
IPSEC ServicesPolicyAgentStoppedManualShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Protected StorageProtectedStorageRunningAutoShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Remote Access Auto Connection ManagerRasAutoStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Remote Access Connection ManagerRasManStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Remote Desktop Help Session ManagerRDSessMgrStoppedManualOwn Process
c:\windows\system32\sessmgr.exeNormalLocalSystem0
Routing and Remote AccessRemoteAccessStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Remote RegistryRemoteRegistryRunningAutoShare Process
c:\windows\system32\svchost.exe -k regsvcNormalNT AUTHORITY\LocalService0
Remote Procedure Call (RPC) LocatorRpcLocatorStoppedManualOwn Process
c:\windows\system32\locator.exeNormalNT AUTHORITY\NetworkService0
Remote Procedure Call (RPC)RpcSsRunningAutoShare Process
c:\windows\system32\svchost.exe -k rpcssNormalNT AUTHORITY\NetworkService
0
Resultant Set of Policy ProviderRSOPProvStoppedManualShare Process
c:\windows\system32\rsopprov.exeNormalLocalSystem0
Special Administration Console HelpersacsvrStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Security Accounts ManagerSamSsRunningAutoShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Smart CardSCardSvrStoppedManualShare Process
c:\windows\system32\scardsvr.exeIgnoreNT AUTHORITY\LocalService0
Task SchedulerScheduleStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Secondary LogonseclogonRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsIgnoreLocalSystem0
System Event NotificationSENSRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Windows Firewall/Internet Connection Sharing (ICS)SharedAccessStopped
DisabledShare Processc:\windows\system32\svchost.exe -k netsvcsNormal
LocalSystem0
Shell Hardware DetectionShellHWDetectionRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsIgnoreLocalSystem0

```

```

Print SpoolerSpoolerStoppedManualOwn Process
c:\windows\system32\spoolsv.exeNormalLocalSystem0
SQL Server BrowserSQLBrowserStoppedDisabledOwn Process"c:\program files
(x86)\microsoft sql server\90\shared\sqlbrowser.exe"NormalNT
AUTHORITY\LocalService0
SQL Server Agent (MSSQLSERVER)SQLSERVERAGENTStoppedManualOwn Process
"c:\program files\microsoft sql server\mssql.1\mssql\bin\sqlagent90.exe"
-i mssqlserverNormalLocalSystem0
SQL Server VSS WriterSQLWriterStoppedManualOwn Process"c:\program
files\microsoft sql server\90\shared\sqlwriter.exe"NormalLocalSystem0
Windows Image Acquisition (WIA)stisvcStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k imgsvcNormalNT AUTHORITY\LocalService0
Microsoft Software Shadow Copy ProviderswprvStoppedManualOwn Process
c:\windows\system32\svchost.exe -k swprvNormalLocalSystem0
Performance Logs and AlertsSysmonLogStoppedAutoOwn Process
c:\windows\system32\smlogsvc.exeNormalNT Authority\NetworkService0
TelephonyTapiSrvStoppedManual Share Process
c:\windows\system32\svchost.exe -k tapisrvNormalLocalSystem0
Terminal ServicesTermServiceRunningManualShare Process
c:\windows\system32\svchost.exe -k termsvcsNormalLocalSystem0
Themes Themes Stopped DisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Telnet TlntSvr Stopped DisabledOwn Processc:\windows\system32\tlntsvr.exe
Normal NT AUTHORITY\LocalService0
Distributed Link Tracking ServerTrkSvrStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Distributed Link Tracking ClientTrkWksStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Terminal Services Session DirectoryTssdisStoppedDisabledOwn Process
c:\windows\system32\tssdis.exeNormalLocalSystem0
Windows User Mode Driver FrameworkUMWdfStoppedManualOwn Process
c:\windows\system32\wdfmgr.exeNormalNT AUTHORITY\LocalService0
Uninterruptible Power SupplyUPSStoppedManualOwn Process
c:\windows\system32\ups.exeNormalNT AUTHORITY\LocalService0
Virtual Disk ServicevdsStoppedManualOwn Process
c:\windows\system32\vds.exeNormalLocalSystem0
Volume Shadow CopyVSSStoppedManualOwn Process
c:\windows\system32\vssvc.exeNormalLocalSystem0
Windows TimeW32TimeStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k localServiceNormalNT
AUTHORITY\LocalService0
WebClientWebClientStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k localServiceNormalNT
AUTHORITY\LocalService0
WinHTTP Web Proxy Auto-Discovery ServiceWinHttpAutoProxySvcStopped
DisabledShare Processc:\windows\system32\svchost.exe -k localService
Normal NT AUTHORITY\LocalService0
Windows Management InstrumentationwinmgmtRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsIgnoreLocalSystem0
Portable Media Serial Number ServiceWmdmPmSNStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Windows Management Instrumentation Driver ExtensionsWmiStoppedManualShare
Process c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
WMI Performance AdapterWmiApSrvStoppedManualOwn Process
c:\windows\system32\wbem\wmiaprv.exeNormalLocalSystem0
Automatic UpdateswuauuserVStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Wireless ConfigurationWZCVCStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Network Provisioning ServicexmlprovStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0

```

[Program Groups]

```

Group NameName User Name
AccessoriesDefault User:AccessoriesDefault User

```

Accessories\AccessibilityDefault User:Accessories\AccessibilityDefault User
 Accessories\EntertainmentDefault User:Accessories\EntertainmentDefault User
 Startup Default User:StartupDefault User
 AccessoriesAll Users:AccessoriesAll Users
 Accessories\AccessibilityAll Users:Accessories\AccessibilityAll Users
 Accessories\CommunicationsAll Users:Accessories\CommunicationsAll Users
 Accessories\EntertainmentAll Users:Accessories\EntertainmentAll Users
 Accessories\System ToolsAll Users:Accessories\System ToolsAll Users
 Administrative ToolsAll Users:Administrative ToolsAll Users
 Debugging Tools for Windows 64-bitAll Users:Debugging Tools for Windows 64-bit All Users
 Emulex All Users:EmulexAll Users
 Microsoft SQL Server 2005All Users:Microsoft SQL Server 2005All Users
 Microsoft SQL Server 2005\Analysis ServicesAll Users:Microsoft SQL Server 2005\Analysis ServicesAll Users
 Microsoft SQL Server 2005\Configuration ToolsAll Users:Microsoft SQL Server 2005\Configuration ToolsAll Users
 Microsoft SQL Server 2005\Documentation and TutorialsAll Users:Microsoft SQL Server 2005\Documentation and TutorialsAll Users
 Microsoft SQL Server 2005\Documentation and TutorialsAll Users:Microsoft SQL Server 2005\Documentation and TutorialsAll Users
 Microsoft SQL Server 2005\Performance ToolsAll Users:Microsoft SQL Server 2005\Performance ToolsAll Users
 Startup All Users:StartupAll Users
 AccessoriesNT AUTHORITY\SYSTEM:AccessoriesNT AUTHORITY\SYSTEM
 Accessories\AccessibilityNT AUTHORITY\SYSTEM:Accessories\AccessibilityNT AUTHORITY\SYSTEM
 Accessories\EntertainmentNT AUTHORITY\SYSTEM:Accessories\EntertainmentNT AUTHORITY\SYSTEM
 Startup NT AUTHORITY\SYSTEM:StartupNT AUTHORITY\SYSTEM
 AccessoriesUNISYS-MV-TPCC\Administrator:AccessoriesUNISYS-MV-TPCC\Administrator
 Accessories\AccessibilityUNISYS-MV-TPCC\Administrator:Accessories\AccessibilityUNISYS-MV-TPCC\Administrator
 Accessories\EntertainmentUNISYS-MV-TPCC\Administrator:Accessories\EntertainmentUNISYS-MV-TPCC\Administrator
 Administrative ToolsUNISYS-MV-TPCC\Administrator:Administrative Tools UNISYS-MV-TPCC\Administrator
 Startup UNISYS-MV-TPCC\Administrator:StartupUNISYS-MV-TPCC\Administrator

[Startup Programs]

Program Command User NameLocation
 desktop desktop.iniNT AUTHORITY\SYSTEMStartup
 desktop desktop.iniUNISYS-MV-TPCC\AdministratorStartup
 desktop desktop.ini.DEFAULTStartup
 desktop desktop.iniAll UsersCommon Startup
 IDW Logging Toolc:\windows\idwlog.exe -3All UsersCommon Startup

[OLE Registration]

Object Local Server
 Sound (OLE2)sndrec32.exe
 Media Clipmplay32.exe
 Video Clipmplay32.exe /avi
 MIDI Sequencemplay32.exe /mid
 Sound Not Available
 Media ClipNot Available
 WordPad Document"%programfiles%\windows nt\accessories\wordpad.exe"
 Bitmap Imagempaint.exe

[Windows Error Reporting]

Time Type Details

[Internet Settings]

[Internet Explorer]

[Following are sub-categories of this main category]
 [Summary]

Item Value
 Version 6.0.3790.1830
 Build 63790.1830
 Application PathC:\Program Files\Internet Explorer
 LanguageEnglish (United States)
 Active PrinterNot Available

Cipher Strength128-bit
 Content AdvisorDisabled
 IEAK InstallNo

[File Versions]

File	Version	Size	Date	Path	Company
actxprxy.dll	6.0.3790.1830221	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
advpack.dll	6.0.3790.1830146	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
asctrls.ocx	6.0.3790.1830147	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
browseui.dll	6.0.3790.183063	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
browseui.dll	6.0.3790.26431,567	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
cdfview.dll	6.0.3790.1830216	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
comctl32.dll	5.82.3790.1830935	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
dxtrans.dll	6.3.3790.1830320	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
dxtmsft.dll	6.3.3790.1830549	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
iecont.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
iecontlcl.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
iedkcs32.dll	6.0.3790.1830417	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
iepeers.dll	6.0.3790.2625361	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
iesetup.dll	6.0.3790.183071	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
ieuinit.inf	Not Available	24 KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Not Available
ieexplore.exe	6.0.3790.183094	KB4/4/2006	4:00:00	AMC:\Program Files\Internet Explorer	Microsoft Corporation
imgutil.dll	6.0.3790.183061	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
inetcp1.cpl	6.0.3790.1830428	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
inetcpl.dll	6.0.3790.1830110	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
insegu.dll	6.0.3790.1830147	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation
mlang.dll	6.0.3790.1830686	KB4/4/2006	4:00:00	AMC:\WINDOWS\system32	Microsoft Corporation

Microsoft Corporation
 msencode.dll<File Missing>Not AvailableNot AvailableNot AvailableNot Available
 Available
 mshta.exe6.0.3790.183038 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 mshtml.dll6.0.3790.26435,838 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 mshtml.tlb6.0.3790.18301,320 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 mshtml.dll6.0.3790.1830906 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 mshtml.dll6.0.3790.183056 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 msident.dll6.0.3790.183069 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 msident.dll6.0.3790.183016 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 msieftp.dll6.0.3790.1830369 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 msrating.dll6.0.3790.1830240 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 mstime.dll6.0.3790.1830878 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 occache.dll6.0.3790.1830126 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 proctexe.ocx<File Missing>Not AvailableNot AvailableNot AvailableNot Available
 Available
 sendmail.dll6.0.3790.183064 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 shdoclc.dll6.0.3790.1830590 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 shdocvw.dll6.0.3790.26432,377 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 shfolder.dll6.0.3790.183034 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 shlwapi.dll6.0.3790.1830607 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 tdc.ocx1.3.0.313091 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32Microsoft
 Corporation
 url.dll6.0.3790.183040 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32Microsoft
 Corporation
 urlmon.dll6.0.3790.26121,057 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 webcheck.dll6.0.3790.1830439 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation
 wininet.dll6.0.3790.18301,159 KB4/4/2006 4:00:00 AMC:\WINDOWS\system32
 Microsoft Corporation

[Connectivity]

Item Value
 Connection PreferenceNever dial

LAN Settings

AutoConfigProxywininet.dll
 AutoProxyDetectModeDisabled
 AutoConfigURL
 Proxy Disabled
 ProxyServer
 ProxyOverride

[Cache]

[Following are sub-categories of this main category]
 [Summary]

Item Value
 Page Refresh TypeAutomatic
 Temporary Internet Files FolderC:\Documents and
 Settings\Administrator\Local Settings\Temporary Internet Files
 Total Disk SpaceNot Available
 Available Disk SpaceNot Available
 Maximum Cache SizeNot Available
 Available Cache SizeNot Available

[List of Objects]

Program FileStatusCodeBase
 No cached object information available

[Content]

[Following are sub-categories of this main category]
 [Summary]

Item Value
 Content AdvisorDisabled

[Personal Certificates]

Issued ToIssued ByValiditySignature Algorithm
 No personal certificate information available

[Other People Certificates]

Issued ToIssued ByValiditySignature Algorithm
 No other people certificate information available

[Publishers]

Name
 No publisher information available

[Security]

Zone Security Level
 My ComputerCustom
 Local intranetCustom
 Trusted sitesCustom
 InternetCustom
 Restricted sitesCustom

Windows Enterprise Server Registry Information

Software_Microsoft_MicrosoftSQLServer

\Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
 Server
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM
 Value 0
 Name: SsrpActiveServer
 Type: REG_SZ
 Data:

Value 1

Name: InstalledInstances
Type: REG_MULTI_SZ
Data: MSSQLSERVER

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:53 AM
Value 0
Name: SharedCode
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Shared\
Value 1
Name: VerSpecificRootDir
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\
Value 2
Name: EnableErrorReporting
Type: REG_DWORD
Data: 0
Value 3
Name: ErrorReportingDir
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Shared\ErrorDumps\
Value 4
Name: CustomerFeedback
Type: REG_DWORD
Data: 0
Value 5
Name: TimeOfReporting
Type: REG_DWORD
Data: 0xf0
Value 6
Name: CollectorParameters
Type: REG_SZ
Data:

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Bootstrap
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name: BootstrapDir
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\90\Setup\Bootstrap\
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Bootstrap\MSIRefCount
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:46 AM
Value 0
Name: Uninstall
Type: REG_SZ
Data: {11111111-1111-1111-1111-111111111111}, {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}, {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Bootstrap\Setup
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:46 AM
Value 0
Name: PatchLevel
Type: REG_SZ
Data: 9.2.3033
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Cost
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:51 AM
Value 0
Name: SQLSetup
Type: REG_SZ
Data: 8388608
Value 1
Name: ToolsSetup
Type: REG_SZ
Data: 262I4400
Value 2
Name: MSXML6
Type: REG_SZ
Data: 15728640
Value 3
Name: bol
Type: REG_SZ
Data: 178257920
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Machines
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:52 AM
Value 0
Name: OriginalMachineName
Type: REG_SZ
Data: UNISYS-MV-TPCC
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:37 AM
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration\Node0
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM
Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xff
Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration\Node1
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM

Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xff00

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration\Node2
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM

Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xff0000

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\NodeConfiguration\Node3
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM

Value 0
Name: CPUMask
Type: REG_DWORD
Data: 0xff000000

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\ProductID
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM

Value 0
Name: ProductID77591
Type: REG_SZ
Data: 77591-045-4200726-05579

Value 1
Name: DigitalProductID77591
Type: REG_BINARY
Data:

00000000 a4 00 00 00 03 00 00 00 - 37 37 35 39 31 2d 30 34
.....77591-04
00000010 35 2d 34 32 30 30 37 32 - 36 2d 30 35 35 37 39 00 5-4200726-
05579.
00000020 0a 00 00 00 00 00 00 00 - 00 00 00 00 00 00 00 00
.....
00000030 00 00 00 00 50 1c 6a 05 - c2 02 72 77 75 51 b0 8f
....P.j.Ä.rwuQ°.
00000040 29 99 02 00 00 00 00 00 - c8 af b0 45 44 b6 65 00
).....E°ED#e.
00000050 00 00 00 00 00 00 00 00 - 00 00 00 00 00 00 00 00
.....
00000060 00 00 00 00 00 00 00 00 - 30 32 32 30 30 00 00 00
.....02200...
00000070 00 00 00 00 00 00 00 00 - 42 86 cd e0 7f ff 01 00
.....B.İä.y..
00000080 00 00 00 00 00 00 00 00 - 00 00 00 00 00 00 00 00
.....
00000090 00 00 00 00 00 00 00 00 - 00 00 00 00 00 00 00 00
.....
a5 29 f6 8b ¥)ö.

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:51 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\ClientSetup
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:58 AM

Value 0
Name: SQLBinRoot
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\90\Shared\

Value 1
Name: SQLPath
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\90\Tools

Value 2
Name: Path
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\90\Tools\bin\

Value 3
Name: checksum
Type: REG_BINARY
Data:

00000000 39 35 33 66 66 66 30 65 - 62 38 32 62 30 34 37 62
953fff0eb82b047b
00000010 31 30 35 31 36 38 32 31 - 30 30 63 63 36 62 62 39
1051682100cc6bb9
00000020 37 31 32 65 31 31 66 32 - 65 34 36 66 31 38 34 34
712e11f2e46f1844
00000030 62 34 34 38 66 66 66 33 - 35 31 61 30 61 61 37 32
b448fff351a0aa72
00000040 62 31 62 38 66 62 31 66 - 32 66 33 34 30 62 30 62
b1b8fb1f2f340b0b
00000050 37 38 63 35 30 66 34 62 - 66 39 36 66 62 31 63 37
78c50f4bf96fb1c7
00000060 30 37 32 30 32 32 61 31 - 38 34 34 39 35 31 32 63
072022a18449512c
00000070 39 37 66 39 32 61 66 34 - 31 63 38 64 64 62 64 64
97f92af41c8ddbdd
00000080 66 32 65 61 36 39 38 63 - 65 37 33 39 31 35 35 37
f2ea698ce7391557
00000090 64 32 34 63 34 31 30 66 - 30 61 31 64 64 39 30 38
d24c410f0a1dd908
000000a0 36 31 32 61 38 64 66 38 - 63 62 36 62 66 35 32 35
612a8df8cb6bf525
000000b0 66 33 37 34 35 33 34 31 - 32 63 65 32 65 39 34 66
f37453412ce2e94f
00

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\90\Tools\ClientSetup\CurrentVersion
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM

Value 0
Name: Language
Type: REG_DWORD
Data: 0x409

Value 1
Name: CurrentVersion
Type: REG_SZ
Data: 9.00.3033.00

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Key Name:           HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Service Manager
Class Name:         <NO CLASS>
Last Write Time:   1/19/2007 - 11:48 AM
Value 0
  Name:             Services
  Type:             REG_MULTI_SZ
  Data:             ;

Key Name:           HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Setup
Class Name:         <NO CLASS>
Last Write Time:   2/6/2007 - 11:51 AM
Value 0
  Name:             Version
  Type:             REG_SZ
  Data:             9.2.3033.00

Value 1
  Name:             Language
  Type:             REG_DWORD
  Data:             0x409

Value 2
  Name:             ProductCode
  Type:             REG_SZ
  Data:             {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Value 3
  Name:             FeatureList
  Type:             REG_SZ
  Data:             Client Components=3 SQL Documentation=3 Connectivity=3
SQL_Tools90=3 TOOLS_BC_DEP=3 SQL_BooksOnline=3

Value 4
  Name:             PatchLevel
  Type:             REG_SZ
  Data:             9.2.3033

Value 5
  Name:             SQLPath
  Type:             REG_SZ
  Data:             c:\Program Files\Microsoft SQL Server\90\Tools\

Value 6
  Name:             checksum
  Type:             REG_BINARY
  Data:             00000000 39 35 33 66 66 66 30 65 - 62 38 32 62 30 34 37 62
953fff0eb82b047b
00000010 31 30 35 31 36 38 32 31 - 30 30 63 63 36 62 62 39
1051682100cc6bb9
00000020 37 31 32 65 31 31 66 32 - 65 34 36 66 31 38 34 34
712e11f2e46f1844
00000030 62 34 34 38 66 66 66 33 - 35 31 61 30 61 61 37 32
b448fff351a0aa72
00000040 62 31 62 38 66 62 31 66 - 32 66 33 34 30 62 30 62
b1b8fb1f2f340b0b
00000050 37 38 63 35 30 66 34 62 - 66 39 36 66 62 31 63 37
78c50f4bf96fb1c7
00000060 30 37 32 30 32 32 61 31 - 38 34 34 39 35 31 32 63
072022a18449512c
00000070 39 37 66 39 32 61 66 34 - 31 63 38 64 64 62 64 64
97f92af41c8ddbdd
00000080 66 32 65 61 36 39 38 63 - 65 37 33 39 31 35 35 37

```

```

f2ea698ce7391557
00000090 64 32 34 63 34 31 30 66 - 30 61 31 64 64 39 30 38
d24c410f0a1dd908
000000a0 36 31 32 61 38 64 66 38 - 63 62 36 62 66 35 32 35
612a8df8cb6bf525
000000b0 66 33 37 34 35 33 34 31 - 32 63 65 32 65 39 34 66
f37453412ce2e94f
00

Value 7
  Name:             Edition
  Type:             REG_SZ
  Data:             Enterprise Edition (64-bit)

Value 8
  Name:             EditionType
  Type:             REG_SZ
  Data:             Enterprise Edition (64-bit)

Value 9
  Name:             SP
  Type:             REG_DWORD
  Data:             0x2

Value 10
  Name:             AssociatedHotfixBuild
  Type:             REG_SZ
  Data:             1520

Key Name:           HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut
Class Name:         <NO CLASS>
Last Write Time:   1/19/2007 - 11:48 AM

Key Name:           HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Tools\Shortcut\SQL Server Error and Usage Reporting
Class Name:         <NO CLASS>
Last Write Time:   1/19/2007 - 11:48 AM
Value 0
  Name:             1033
  Type:             REG_SZ
  Data:

Key Name:           HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall Info
Class Name:         <NO CLASS>
Last Write Time:   1/19/2007 - 11:51 AM

Key Name:           HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall Info\{73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}
Class Name:         <NO CLASS>
Last Write Time:   2/6/2007 - 11:52 AM
Value 0
  Name:             Product
  Type:             REG_SZ
  Data:             Client_Components

Value 1
  Name:             SetupHive
  Type:             REG_SZ
  Data:             90\Tools

Value 2
  Name:             RemoveList

```



```

Type:          REG_SZ
Data:
Client Components,Connectivity,SQL Tools90,SQL WarehouseDevWorkbench,SDK,
SQLXML7,Tools_Legacy,TOOLS_BC_DEP,SQL_Documentation,SQL_BooksOnline,SQL_Da
tabaseSamples,SQL_AdventureWorksSamples,SQL_AdventureWorksDWSamples,SQL_A
dventureWorksASSamples,SQL_Samples

Value 3
Name:          ModifyPath
Type:          REG_SZ
Data:          "c:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\setup.exe" /resumsetup /productcode {73D8B59D-0BFF-4B5B-A031-
FAB3AC629E56} /I {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Value 4
Name:          UninstallPath
Type:          REG_SZ
Data:          "c:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\setup.exe" /resumsetup /productcode {73D8B59D-0BFF-4B5B-A031-
FAB3AC629E56} /X {73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Value 5
Name:          Status
Type:          REG_DWORD
Data:          0

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\90\Uninstall_Info\{79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}
Class Name:    <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name:          Product
Type:          REG_SZ
Data:          SQL_Engine

Value 1
Name:          SetupHive
Type:          REG_SZ
Data:          MSSQL.1

Value 2
Name:          RemoveList
Type:          REG_SZ
Data:          SQL_Engine,SQL_Data_Files,SQL_Replication,SQL_FullText,SQL_SharedTools,SQ
L_BC_DEP

Value 3
Name:          ModifyPath
Type:          REG_SZ
Data:          "c:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\setup.exe" /resumsetup /productcode {79F1B65E-8FC0-4D03-954D-
F9E71C85AEC7} /I {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}

Value 4
Name:          UninstallPath
Type:          REG_SZ
Data:          "c:\Program Files\Microsoft SQL Server\90\Setup
Bootstrap\setup.exe" /resumsetup /productcode {79F1B65E-8FC0-4D03-954D-
F9E71C85AEC7} /X {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}

Value 5
Name:          Status
Type:          REG_DWORD
Data:          0

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Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\BC
Class Name:    <NO CLASS>
Last Write Time: 1/19/2007 - 11:44 AM

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\BC\CurrentVersion
Class Name:    <NO CLASS>
Last Write Time: 2/6/2007 - 11:53 AM
Value 0
Name:          Version
Type:          REG_SZ
Data:          8.05.2002

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\BC\MSIRefCount
Class Name:    <NO CLASS>
Last Write Time: 2/6/2007 - 11:53 AM
Value 0
Name:          Uninstall
Type:          REG_SZ
Data:          {11111111-1111-1111-1111-111111111111},{79F1B65E-8FC0-
4D03-954D-F9E71C85AEC7},{73D8B59D-0BFF-4B5B-A031-FAB3AC629E56}

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\ExceptionMessageBox
Class Name:    <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name:          ShowFeedbackButton
Type:          REG_DWORD
Data:          0x1

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Instance Names
Class Name:    <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\Instance Names\SQL
Class Name:    <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name:          MSSQLSERVER
Type:          REG_SZ
Data:          MSSQL.1

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1
Class Name:    <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
Name:          <NO NAME>
Type:          REG_SZ
Data:          MSSQLSERVER

Key Name:      HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\CPE
Class Name:    <NO CLASS>

```

Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: ErrorDumpDir
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\LOG\

Value 1
Name: EnableErrorReporting
Type: REG_DWORD
Data: 0

Value 2
Name: CustomerFeedback
Type: REG_DWORD
Data: 0

Value 3
Name: TimeOfReporting
Type: REG_DWORD
Data: 0x3c

Value 4
Name: CollectorParameters
Type: REG_SZ
Data: SQL\MSSQL.1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:38 AM

Value 0
Name: AuditLevel
Type: REG_DWORD
Data: 0x2

Value 1
Name: DebugClassID
Type: REG_SZ
Data: {CF889E03-9F82-4AEF-8CC0-15A747E9E41E}

Value 2
Name: DefaultLogin
Type: REG_SZ
Data: guest

Value 3
Name: LoginMode
Type: REG_DWORD
Data: 0x2

Value 4
Name: Map
Type: REG_SZ
Data: \

Value 5
Name: Map#
Type: REG_SZ
Data: -

Value 6
Name: Map\$
Type: REG_SZ
Data:

Value 7
Name: SetHostName
Type: REG_DWORD
Data: 0

Value 8
Name: Tapeloadwaittime
Type: REG_DWORD
Data: 0xffffffff

Value 9
Name: BackupDirectory
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\Backup

Value 10
Name: SysDb
Type: REG_DWORD
Data: 0x1

Value 11
Name: uptime_pid
Type: REG_DWORD
Data: 0xb1c

Value 12
Name: uptime_time_utc
Type: REG_BINARY
Data: 18 43 95 6f df 60 c7 01 - .C.oB`Ç.

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\CurrentVersion
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM

Value 0
Name: Language
Type: REG_DWORD
Data: 0x409

Value 1
Name: CurrentVersion
Type: REG_SZ
Data: 9.00.3033.00

Value 2
Name: RegisteredOwner
Type: REG_SZ
Data:

Value 3
Name: SerialNumber
Type: REG_SZ
Data:

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\Parameters
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: SQLArg0
Type: REG_SZ

Data: -dC:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA\master.mdf

Value 1
Name: SQLArg1
Type: REG_SZ
Data: -eC:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\LOG\ERRORLOG

Value 2
Name: SQLArg2
Type: REG_SZ
Data: -lC:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA\mastlog.ldf

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: ForceEncryption
Type: REG_DWORD
Data: 0

Value 1
Name: HideInstance
Type: REG_DWORD
Data: 0

Value 2
Name: Certificate
Type: REG_SZ
Data:

Value 3
Name: DisplayName
Type: REG_SZ
Data: SQL Server Network Configuration

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\AdminConnection
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: DisplayName
Type: REG_SZ
Data: Dedicated Administrative Connection

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\AdminConnection\Tcp
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: TcpDynamicPorts
Type: REG_SZ
Data: 1434

Value 1
Name: DisplayName
Type: REG_SZ
Data: TCP/IP

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Np
Class Name: <NO CLASS>
Last Write Time: 2/8/2007 - 5:32 PM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 1
Name: PipeName
Type: REG_SZ
Data: \\.\pipe\sql\query

Value 2
Name: DisplayName
Type: REG_SZ
Data: Named Pipes

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Sm
Class Name: <NO CLASS>
Last Write Time: 3/2/2007 - 6:16 AM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 1
Name: DisplayName
Type: REG_SZ
Data: Shared Memory

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp
Class Name: <NO CLASS>
Last Write Time: 2/16/2007 - 11:24 AM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0x1

Value 1
Name: ListenOnAllIPs
Type: REG_DWORD
Data: 0x1

Value 2
Name: NoDelay
Type: REG_DWORD
Data: 0

Value 3
Name: KeepAlive
Type: REG_DWORD
Data: 0x7530

Value 4
Name: DisplayName
Type: REG_SZ
Data: TCP/IP

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL

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Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP1
Class Name: <NO CLASS>
Last Write Time: 1/24/2007 - 11:38 AM
Value 0
  Name: Enabled
  Type: REG_DWORD
  Data: 0
Value 1
  Name: Active
  Type: REG_DWORD
  Data: 0x1
Value 2
  Name: TcpPort
  Type: REG_SZ
  Data: 1433
Value 3
  Name: TcpDynamicPorts
  Type: REG_SZ
  Data:
Value 4
  Name: DisplayName
  Type: REG_SZ
  Data: Specific IP Address
Value 5
  Name: IPAddress
  Type: REG_SZ
  Data: 192.59.13.144

```

```

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP2
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
  Name: Enabled
  Type: REG_DWORD
  Data: 0
Value 1
  Name: Active
  Type: REG_DWORD
  Data: 0x1
Value 2
  Name: TcpPort
  Type: REG_SZ
  Data: 1433
Value 3
  Name: TcpDynamicPorts
  Type: REG_SZ
  Data:
Value 4
  Name: DisplayName
  Type: REG_SZ
  Data: Specific IP Address
Value 5
  Name: IPAddress
  Type: REG_SZ
  Data:

```

```
Data: 127.0.0.1
```

```

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP3
Class Name: <NO CLASS>
Last Write Time: 1/26/2007 - 1:23 PM
Value 0
  Name: Enabled
  Type: REG_DWORD
  Data: 0
Value 1
  Name: Active
  Type: REG_DWORD
  Data: 0x1
Value 2
  Name: TcpPort
  Type: REG_SZ
  Data: 1401[0x1]
Value 3
  Name: TcpDynamicPorts
  Type: REG_SZ
  Data:
Value 4
  Name: DisplayName
  Type: REG_SZ
  Data: Specific IP Address
Value 5
  Name: IPAddress
  Type: REG_SZ
  Data: 192.168.90.141

```

```

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP4
Class Name: <NO CLASS>
Last Write Time: 1/26/2007 - 1:23 PM
Value 0
  Name: Enabled
  Type: REG_DWORD
  Data: 0
Value 1
  Name: Active
  Type: REG_DWORD
  Data: 0x1
Value 2
  Name: TcpPort
  Type: REG_SZ
  Data: 1402[0x2]
Value 3
  Name: TcpDynamicPorts
  Type: REG_SZ
  Data:
Value 4
  Name: DisplayName
  Type: REG_SZ
  Data: Specific IP Address

```

Value 5
Name: IpAddress
Type: REG_SZ
Data: 192.168.90.142

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP5
Class Name: <NO CLASS>
Last Write Time: 1/26/2007 - 1:23 PM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1403[0x4]

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

Value 5
Name: IpAddress
Type: REG_SZ
Data: 192.168.90.143

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP6
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1433

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

Value 5
Name: IpAddress
Type: REG_SZ
Data: 192.168.90.141

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP63
Class Name: <NO CLASS>
Last Write Time: 1/26/2007 - 1:23 PM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1404[0x8]

Value 3
Name: TcpDynamicPorts
Type: REG_SZ
Data:

Value 4
Name: DisplayName
Type: REG_SZ
Data: Specific IP Address

Value 5
Name: IpAddress
Type: REG_SZ
Data: 192.168.90.144

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP7
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM

Value 0
Name: Enabled
Type: REG_DWORD
Data: 0

Value 1
Name: Active
Type: REG_DWORD
Data: 0x1

Value 2
Name: TcpPort
Type: REG_SZ
Data: 1433

Value 3

Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Specific IP Address

Value 5
 Name: IPAddress
 Type: REG_SZ
 Data: 192.168.91.246

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP8
 Class Name: <NO CLASS>
 Last Write Time: 2/6/2007 - 11:48 AM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Active
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: TcpPort
 Type: REG_SZ
 Data: 1433

Value 3
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Specific IP Address

Value 5
 Name: IPAddress
 Type: REG_SZ
 Data: 192.59.13.246

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IP9
 Class Name: <NO CLASS>
 Last Write Time: 2/6/2007 - 11:48 AM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0

Value 1
 Name: Active
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: TcpPort

Type: REG_SZ
 Data: 1433

Value 3
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 4
 Name: DisplayName
 Type: REG_SZ
 Data: Specific IP Address

Value 5
 Name: IPAddress
 Type: REG_SZ
 Data: 127.0.0.1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Tcp\IPAll
 Class Name: <NO CLASS>
 Last Write Time: 2/6/2007 - 11:03 AM

Value 0
 Name: TcpPort
 Type: REG_SZ
 Data: 1433,1401 [0x2], 1402 [0x1], 1403 [0x4], 1404 [0x8], 1405 [0x3], 1406 [0xc]

Value 1
 Name: TcpDynamicPorts
 Type: REG_SZ
 Data:

Value 2
 Name: DisplayName
 Type: REG_SZ
 Data: Any IP Address

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\MSSQLServer\SuperSocketNetLib\Via
 Class Name: <NO CLASS>
 Last Write Time: 3/5/2007 - 11:11 PM

Value 0
 Name: Enabled
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: DefaultServerPort
 Type: REG_SZ
 Data: 0:1433

Value 2
 Name: ListenInfo
 Type: REG_SZ
 Data: 0:1401 [0x2], 1:1402 [0x1], 2:1403 [0x4], 3:1404 [0x8], 4:1405 [0x3], 5:1406 [0xc]

Value 3
 Name: DisplayName
 Type: REG_SZ
 Data: VIA

Value 4

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Name: VendorDLL
Type: REG_SZ
Data: uvipl.dll

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\ADSDSOObject
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\DB2OLEDB
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\Microsoft.Jet.OLEDB.4.0
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\MSDAORA
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\MSDASQL
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL

```

```

Server\MSSQL.1\Providers\MSIDXS
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\MSQLImpProv
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\MSSEARCHSQL
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Providers\SQLNCLI
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: AllowInProcess
Type: REG_DWORD
Data: 0x1

Value 1
Name: DisallowAdhocAccess
Type: REG_DWORD
Data: 0

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Security
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM
Value 0
Name: Entropy
Type: REG_BINARY
Data:
00000000 57 58 60 e2 11 49 f0 f6 - 94 86 d1 9c 92 34 82 15
WX`â.Iöö..Ñ..4..
00000010 ad 8c 41 40 5e d9 8b a2 - 1a 8b 95 90 07 a1 91 ff
-.A@`Ü.ç...i.ÿ
00000020 28 24 b7 4b 51 f3 96 ed - 1e a2 a0 49 24 31 bf 3a
($·KQó.í.ç I$1¿:
00000030 9a 25 d9 9b 54 dc a7 cf - 8e 41 a1 01 79 ad ea e6
.%Û.TÜÏ.Ai.y-æ
00000040 8e 49 31 b9 b1 12 3b 08 - 39 c2 e4 16 a5 08 cf e5
.I1±.;.9Ãä.¥.iã
00000050 df 98 d1 1e c1 79 dc ac - 4b 75 aa 14 9e 83 a2 47
ß.Ñ.ÄyU-Ku*...çG
00000060 5a 72 7f b7 74 23 13 2d - f1 3c 5e 50 be 98 e5 90 Zr..t#.-
ñ<^P%.ã.

```

```

00000070 c9 e4 12 a1 67 15 e8 27 - 65 82 cc f0 13 85 1c 07
Eä.ig.è'e.İö...
00000080 96 d9 d0 b3 1a b7 e9 77 - 91 ac b4 7e 98 f9 7d 7b
.ÜP'...éw.-.ü}{
00000090 1e 24 22 b4 cb db 25 9b - d4 7d f9 18 31 31 09 93
.$"EÜ%.Ö}ü.11.
000000a0 d8 36 13 e9 0e 02 34 72 - 46 16 db 3a 18 ef db 21
06.é..4rF.Û:.iÛ!
000000b0 7e c5 67 77 a1 71 7f 76 - 80 a6 58 c8 f5 1a ee 26
~Ägwiq.v.|XEO.î&
000000c0 db 47 64 de ca db bc d2 - 1d 35 a0 ce 2c 71 51 5c
ÜGdPEÜ%0.5 î,qQ\
000000d0 04 61 40 be f5 26 1a cd - 4c cf 88 10 b8 d2 27 4e
.a@%ö&.İLİ...Ö'N
000000e0 b2 2c 0b cf c5 91 c7 f4 - 09 55 16 a5 4b 0b 0f 97 %,.İÄ.Çô
U.YK...
000000f0 ae 5e c1 89 ab 46 94 03 - 63 69 8f ce ae 51 89 5f
@^A.<F..ci.î@Q_

```

```

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL
Server\MSSQL.1\Setup
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:48 AM

```

```

Value 0
Name: AGTGroup
Type: REG_SZ
Data: S-1-5-21-2535477953-2402596449-1775385912-1005

```

```

Value 1
Name: SQLGroup
Type: REG_SZ
Data: S-1-5-21-2535477953-2402596449-1775385912-1006

```

```

Value 2
Name: FTSGroup
Type: REG_SZ
Data: S-1-5-21-2535477953-2402596449-1775385912-1007

```

```

Value 3
Name: Version
Type: REG_SZ
Data: 9.2.3033.00

```

```

Value 4
Name: Language
Type: REG_DWORD
Data: 0x409

```

```

Value 5
Name: Resume
Type: REG_DWORD
Data: 0

```

```

Value 6
Name: ProductCode
Type: REG_SZ
Data: {79F1B65E-8FC0-4D03-954D-F9E71C85AEC7}

```

```

Value 7
Name: SqlProgramDir
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\

```

Value 8

```

Name: checksum
Type: REG_BINARY
Data:
00000000 39 35 33 66 66 66 30 65 - 62 38 32 62 30 34 37 62
953fff0eb82b047b
00000010 31 30 35 31 36 38 32 31 - 30 30 63 64 36 30 62 63
1051682100cd60bc
00000020 63 34 66 37 36 38 66 35 - 66 38 37 61 65 31 31 34
c4f768f5f87ae114
00000030 39 34 31 64 38 39 36 64 - 33 36 66 64 30 61 62 37
941d896d36fd0ab7
00000040 36 36 66 35 32 36 36 66 - 63 32 39 39 64 30 61 32
66f5266fc299d0a2
00000050 35 35 65 65 32 39 64 39 - 61 38 39 37 35 38 33 32
55ee29d9a8975832
00000060 30 33 32 33 30 61 61 32 - 38 39 35 35 63 66 66 33
03230aa28955cff3
00000070 39 65 31 39 39 63 39 34 - 34 64 66 36 38 61 38 35
9e199c944df68a85
00000080 35 65 35 31 63 66 64 34 - 38 30 62 32 39 66 35 66
5e51cfd480b29f5f
00000090 34 34 65 39 34 39 39 39 - 66 35 63 66 35 34 65 62
44e94999f5cf54eb
000000a0 36 31 63 30 35 63 31 31 - 62 38 33 63 38 31 66 63
61c05c11b83c81fc
000000b0 33 34 39 61 63 38 32 39 - 62 64 30 39 38 35 34 63
349ac829bd09854c
00

```

```

Value 9
Name: Edition
Type: REG_SZ
Data: Enterprise Edition (64-bit)

```

```

Value 10
Name: SqlCluster
Type: REG_DWORD
Data: 0

```

```

Value 11
Name: FeatureList
Type: REG_SZ
Data: SQL_Engine=3 SQL_Data_Files=3 SQL_SharedTools=3
SQL_BC_DEP=3

```

```

Value 12
Name: PatchLevel
Type: REG_SZ
Data: 9.2.3033

```

```

Value 13
Name: Collation
Type: REG_SZ
Data: SQL_Latin1_General_CP1_CI_AS

```

```

Value 14
Name: FirstStart
Type: REG_DWORD
Data: 0

```

```

Value 15
Name: SQLDataRoot
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL

```

Value 16

Name: SQLPath
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL

Value 17
Name: SQLBinRoot
Type: REG_SZ
Data: c:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Binn

Value 18
Name: EditionType
Type: REG_SZ
Data: Enterprise Edition (64-bit)

Value 19
Name: SP
Type: REG_DWORD
Data: 0x2

Value 20
Name: AssociatedHotfixBuild
Type: REG_SZ
Data: 1520

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\SQLServerAgent
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: JobHistoryMaxRowsPerJob
Type: REG_DWORD
Data: 0x64

Value 1
Name: SysAdminOnly
Type: REG_DWORD
Data: 0x1

Value 2
Name: DownloadedMaxRows
Type: REG_DWORD
Data: 0x64

Value 3
Name: ErrorLogFile
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\LOG\SQLAGENT.OUT

Value 4
Name: ErrorLoggingLevel
Type: REG_DWORD
Data: 0x3

Value 5
Name: JobHistoryMaxRows
Type: REG_DWORD
Data: 0x3e8

Value 6
Name: MSXServerName
Type: REG_SZ
Data:

Value 7
Name: NonAlertableErrors
Type: REG_SZ
Data: 1204,4002

Value 8
Name: RestartServer
Type: REG_DWORD
Data: 0x1

Value 9
Name: ServerHost
Type: REG_SZ
Data:

Value 10
Name: WorkingDirectory
Type: REG_SZ
Data: C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\JOBS\

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\MSSQL.1\SQLServerSCP
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:58 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\Analysis Server
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: Name
Type: REG_SZ
Data: MSSQLServerOLAPService

Value 1
Name: LName
Type: REG_SZ
Data: MSOLAP\$

Value 2
Name: Type
Type: REG_DWORD
Data: 0x5

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\Full Text
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: LName
Type: REG_SZ
Data: msftesql\$

Value 1
Name: Name
Type: REG_SZ
Data: msftesql

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x3

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\Notification Services
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM

Value 0
 Name: LName
 Type: REG_SZ
 Data: NS\$

Value 1
 Name: Name
 Type: REG_SZ
 Data: NsService

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x8

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\Report Server
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM

Value 0
 Name: Name
 Type: REG_SZ
 Data: ReportServer

Value 1
 Name: LName
 Type: REG_SZ
 Data: ReportServer\$

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x6

Value 3
 Name: GroupPrefix
 Type: REG_SZ
 Data: SQLServer2005ReportServerUser\$UNISYS-MV-TPCC\$

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\ReportServer
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM

Value 0
 Name: LName
 Type: REG_SZ
 Data: ReportServer\$

Value 1
 Name: Name
 Type: REG_SZ
 Data: ReportServer

Value 2

Name: Type
 Type: REG_DWORD
 Data: 0x6

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SQL Agent
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM

Value 0
 Name: Name
 Type: REG_SZ
 Data: SQLSERVERAGENT

Value 1
 Name: LName
 Type: REG_SZ
 Data: SQLAgent\$

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x2

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SQL Browser
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM

Value 0
 Name: LName
 Type: REG_SZ
 Data:

Value 1
 Name: Name
 Type: REG_SZ
 Data: SQLBrowser

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x7

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL Server\Services\SQL Server
 Class Name: <NO CLASS>
 Last Write Time: 1/19/2007 - 11:48 AM

Value 0
 Name: Name
 Type: REG_SZ
 Data: MSSQLServer

Value 1
 Name: LName
 Type: REG_SZ
 Data: MSSQL\$

Value 2
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Key Name: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Microsoft SQL

```

Server\Services\SSIS Server
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM
Value 0
  Name: GroupPrefix
  Type: REG_SZ
  Data: SQLServer2005DTSUser$UNISYS-MV-TPCC
Value 1
  Name: LName
  Type: REG_SZ
  Data:
Value 2
  Name: Name
  Type: REG_SZ
  Data: MsDtsServer
Value 3
  Name: Type
  Type: REG_DWORD
  Data: 0x4

```

Software_Microsoft_MSSQLServer.txt

```

\registry\machine\SOFTWARE\Microsoft\MSSQLServer
Client
  SNI9.0
    ProtocolsSupported = REG_MULTI_SZ "sm"
    "tcp"
    "np"
    "via"
  ProtocolOrder = REG_MULTI_SZ "sm"
    "tcp"
    "np"
  GeneralFlags
    NumberOfFlags = REG_DWORD 0x00000002
    Flag1
      Label = Force protocol encryption
      Value = REG_DWORD 0x00000000
    Flag2
      Label = Trust Server Certificate
      Value = REG_DWORD 0x00000000
  LastConnect
  np
    DLLName = SQLNCLI
    NumberOfFlags = REG_DWORD 0x00000000
    NumberOfProperties = REG_DWORD 0x00000001
    ProtocolName = Named Pipes
    Property1
      Name = Default Pipe
      Value = sql\query
  sm
    DLLName = SQLNCLI
    NumberOfFlags = REG_DWORD 0x00000000
    NumberOfProperties = REG_DWORD 0x00000000
    ProtocolName = Shared Memory
  tcp
    DLLName = SQLNCLI
    NumberOfFlags = REG_DWORD 0x00000000
    NumberOfProperties = REG_DWORD 0x00000003
    ProtocolName = TCP/IP

```

```

Property1
  Name = Default Port
  Value = REG_DWORD 0x00000599
Property2
  Name = KEEPALIVE (in milliseconds)
  Value = REG_DWORD 0x00007530
Property3
  Name = KEEPALIVEINTERVAL (in milliseconds)
  Value = REG_DWORD 0x000003e8
VIA
  DLLName = SQLNCLI
  NumberOfFlags = REG_DWORD 0x00000000
  NumberOfProperties = REG_DWORD 0x00000002
  ProtocolName = VIA
  Property1
    Name = Default Server Port
    Value = 0:1433
  Property2
    Name = Default Client NIC
    Value = 0
MSSQLServer
  CurrentVersion
    CurrentVersion = 9.00.3033.00
  SuperSocketNetLib
    ProtocolList = REG_MULTI_SZ "tcp"
    "np"
  Np
    PipeName = \\.\pipe\sql\query
  Tcp
    TcpPort = 1433

```

Software_Unisys_IntelligentFibre

Windows Registry Editor Version 5.00

```

[HKEY_LOCAL_MACHINE\SOFTWARE\UNISYS\Intelligent Fibre Utility]
"AccessTuning"=dword:00000001

```

CurrentControlSet\Control\SessionManager\I/OSystem

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\I/O
System
Class Name: <NO CLASS>
Last Write Time: 3/7/2007 - 9:23 AM
Value 0
  Name: CountOperations
  Type: REG_DWORD
  Data: 0

```

CurrentControlSet\Services\ifba

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifba
Class Name: <NO CLASS>
Last Write Time: 3/6/2007 - 11:11 AM

```

```

Value 0
  Name:      Type
  Type:      REG_DWORD
  Data:      0x1

Value 1
  Name:      Start
  Type:      REG_DWORD
  Data:      0x3

Value 2
  Name:      ErrorControl
  Type:      REG_DWORD
  Data:      0x1

Value 3
  Name:      Tag
  Type:      REG_DWORD
  Data:      0x4

Value 4
  Name:      ImagePath
  Type:      REG_EXPAND_SZ
  Data:      system32\DRIVERS\ifba.sys

Value 5
  Name:      DisplayName
  Type:      REG_SZ
  Data:      Unisys Intelligent Fibre Channel Adapter SCSI Processor

Value 6
  Name:      Group
  Type:      REG_SZ
  Data:      SCSI Class

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifba\Security
Class Name: <NO CLASS>
Last Write Time: 1/12/2007 - 7:41 AM
Value 0
  Name:      Security
  Type:      REG_BINARY
  Data:      00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
  .....Ä.....
  00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02 80 14 00
  0.....
  00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00 00 00 00
  Ÿ.....
  00000030 02 00 88 00 06 00 00 00 - 00 00 14 00 fd 01 02 00
  .....ÿ.....
  00000040 01 01 00 00 00 00 00 05 - 12 00 00 00 00 00 18 00
  .....
  00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20 00 00 00  Ÿ.....
  .....
  00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01 01 00 00
  .....
  00000070 00 00 00 05 04 00 00 00 - 00 00 14 00 8d 01 02 00
  .....
  00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00
  .....
  00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
  .....
  000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
  .....ÿ.....

```

```

000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
  .....#.....
  000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
  .....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifba\Enum
Class Name: <NO CLASS>
Last Write Time: 3/6/2007 - 11:12 AM

```

```

Value 0
  Name:      0
  Type:      REG_SZ
  Data:      SCSI\ProcessorUNISYS_FC76222-
P64_____v2__\6&1856da93&0&8C25560B000800I0

```

```

Value 1
  Name:      Count
  Type:      REG_DWORD
  Data:      0x14

```

```

Value 2
  Name:      NextInstance
  Type:      REG_DWORD
  Data:      0x14

```

```

Value 3
  Name:      1
  Type:      REG_SZ
  Data:      SCSI\ProcessorUNISYS_FC76222-
P64_____v2__\6&1856da93&0&8D25560B000800I0

```

```

Value 4
  Name:      2
  Type:      REG_SZ
  Data:      SCSI\ProcessorUNISYS_FC76222-
P64_____v2__\6&2c288843&0&EC04560B000800I0

```

```

Value 5
  Name:      3
  Type:      REG_SZ
  Data:      SCSI\ProcessorUNISYS_FC76222-
P64_____v2__\6&2c288843&0&ED04560B000800I0

```

```

Value 6
  Name:      4
  Type:      REG_SZ
  Data:      SCSI\ProcessorUNISYS_FC76222-
P64_____v2__\6&3b08969c&0&FC04560B000800I0

```

```

Value 7
  Name:      5
  Type:      REG_SZ
  Data:      SCSI\ProcessorUNISYS_FC76222-
P64_____v2__\6&3b08969c&0&FD04560B000800I0

```

```

Value 8
  Name:      6
  Type:      REG_SZ
  Data:      SCSI\ProcessorUNISYS_FC76222-
P64_____v2__\6&84a8603&0&2409560B000800I0

```

```

Value 9
  Name:      7
  Type:      REG_SZ

```

```

Data:          SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&84a8603&0&2509560B000800I0

Value 10
Name:          8
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&17387ea3&0&5406560B000800I0

Value 11
Name:          9
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&17387ea3&0&5506560B000800I0

Value 12
Name:          10
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&2e8a254e&0&8004560B000800I0

Value 13
Name:          11
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&2e8a254e&0&8104560B000800I0

Value 14
Name:          12
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&30bd363f&0&D804560B000800I0

Value 15
Name:          13
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&30bd363f&0&D904560B000800I0

Value 16
Name:          14
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&7cf0138&0&A004560B000800I0

Value 17
Name:          15
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&7cf0138&0&A104560B000800I0

Value 18
Name:          16
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&21fc4ab1&0&B804560B000800I0

Value 19
Name:          17
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&21fc4ab1&0&B904560B000800I0

Value 20
Name:          18
Type:          REG_SZ

```

```

Data:          SCSI\ProcessorUNISYS_FC76222-
P64_____v2___\6&2ec05535&0&7C25560B000800I0

Value 21
Name:          19
Type:          REG_SZ
Data:          SCST\ProcessorUNISYS_FC76222-
P64_____v2___\6&2ec05535&0&7D25560B000800I0

```

CurrentControlSet\Services\ifdisk

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifdisk
Class Name:    <NO CLASS>
Last Write Time: 3/6/2007 - 11:12 AM
Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x1

Value 1
Name:          Start
Type:          REG_DWORD
Data:          0x1

Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1

Value 3
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          system32\DRIVERS\ifdisk.sys

Value 4
Name:          DisplayName
Type:          REG_SZ
Data:          Unisys Intelligent Fibre Channel Fabric Disk Driver

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifdisk\Security
Class Name:    <NO CLASS>
Last Write Time: 1/12/2007 - 9:31 AM
Value 0
Name:          Security
Type:          REG_BINARY
Data:          00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
                .....Ä.....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02 80 14 00
0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00 00 00 00
ÿ.....
00000030 02 00 88 00 06 00 00 00 - 00 00 14 00 fd 01 02 00
ÿ.....ÿ...
00000040 01 01 00 00 00 00 00 05 - 12 00 00 00 00 00 18 00
                .....ÿ.....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20 00 00 00 ÿ.....
                .....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01 01 00 00

```

```

.....
00000070 00 00 00 05 04 00 00 00 - 00 00 14 00 8d 01 02 00
00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00
00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
.....#.....
000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifdisk\Enum
Class Name: <NO CLASS>
Last Write Time: 3/6/2007 - 2:49 PM

```

```

Value 0
Name: 0
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&F669032B090000100
0000000000000000

```

```

Value 1
Name: Count
Type: REG_DWORD
Data: 0x49

```

```

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x49

```

```

Value 3
Name: 1
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&3C502E2B090000100
0000000000000300

```

```

Value 4
Name: 2
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&3C502E2B090000100
000000000000200

```

```

Value 5
Name: 3
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&3C502E2B090000100
00000000000100

```

```

Value 6
Name: 4
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&3C502E2B090000100
00000000000000

```

```
Value 7
```

```

Name: 5
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&1F077D2B090000100
0000000000000300

```

```

Value 8
Name: 6
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&1F077D2B090000100
000000000000200

```

```

Value 9
Name: 7
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&1F077D2B090000100
000000000000100

```

```

Value 10
Name: 8
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&1F077D2B090000100
00000000000000

```

```

Value 11
Name: 9
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&B037372B090000100
000000000000300

```

```

Value 12
Name: 10
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&B037372B090000100
000000000000200

```

```

Value 13
Name: 11
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&B037372B090000100
000000000000100

```

```

Value 14
Name: 12
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&B037372B090000100
00000000000000

```

```

Value 15
Name: 13
Type: REG_SZ
Data: SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&4B57072B090000100
000000000000300

```

```

Value 16
Name: 14
Type: REG_SZ
Data:

```

```

SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&4B57072B090000100
0000000000002000
Value 17
  Name: 15
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&4B57072B090000100
0000000000001000
Value 18
  Name: 16
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&4B57072B090000100
0000000000000000
Value 19
  Name: 21
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&F5B1BC2B090000100
0000000000003000
Value 20
  Name: 22
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&F5B1BC2B090000100
0000000000002000
Value 21
  Name: 23
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&F5B1BC2B090000100
0000000000001000
Value 22
  Name: 24
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&F5B1BC2B090000100
0000000000000000
Value 23
  Name: 25
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&7E95FF2B090000100
0000000000003000
Value 24
  Name: 26
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&7E95FF2B090000100
0000000000002000
Value 25
  Name: 27
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&7E95FF2B090000100
0000000000001000

```

```

Value 26
  Name: 28
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0004___6040\1&2d12bed1&0&7E95FF2B090000100
0000000000000000
Value 27
  Name: 29
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&951DF52B090000100
0000000000003000
Value 28
  Name: 30
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&951DF52B090000100
0000000000002000
Value 29
  Name: 31
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&951DF52B090000100
0000000000001000
Value 30
  Name: 32
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&951DF52B090000100
0000000000000000
Value 31
  Name: 33
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&6F630C2B090000100
0000000000003000
Value 32
  Name: 34
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&6F630C2B090000100
0000000000002000
Value 33
  Name: 35
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&6F630C2B090000100
0000000000001000
Value 34
  Name: 36
  Type: REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&6F630C2B090000100
0000000000000000
Value 35
  Name: 37
  Type: REG_SZ

```

```

Data:
SCSI\Disk&Ven IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&651AFD2B090000100
0000000000003000

Value 36
Name: 38
Type: REG_SZ
Data:
SCSI\Disk&Ven IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&651AFD2B090000100
0000000000002000

Value 37
Name: 39
Type: REG_SZ
Data:
SCSI\Disk&Ven IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&651AFD2B090000100
0000000000001000

Value 38
Name: 40
Type: REG_SZ
Data:
SCSI\Disk&Ven IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&651AFD2B090000100
0000000000000000

Value 39
Name: 41
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DD3F0086100000100
0000000000004000

Value 40
Name: 42
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DD3F0086100000100
0000000000003000

Value 41
Name: 43
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DD3F0086100000100
0000000000002000

Value 42
Name: 44
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DD3F0086100000100
0000000000001000

Value 43
Name: 45
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&9B3F0086100000100
0000000000004000

Value 44
Name: 46
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&9B3F0086100000100
0000000000003000

```

```

Value 45
Name: 47
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&9B3F0086100000100
0000000000002000

Value 46
Name: 48
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&9B3F0086100000100
0000000000001000

Value 47
Name: 49
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DB3F0086100000100
0000000000004000

Value 48
Name: 50
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DB3F0086100000100
0000000000003000

Value 49
Name: 51
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DB3F0086100000100
0000000000002000

Value 50
Name: 52
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DB3F0086100000100
0000000000001000

Value 51
Name: 53
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&6340086100000100
0000000000004000

Value 52
Name: 54
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&6340086100000100
0000000000003000

Value 53
Name: 55
Type: REG_SZ
Data:
SCSI\Disk&Ven UNISYS_VirtualStorage__01.0\1&2d12bed1&0&6340086100000100
0000000000002000

Value 54
Name: 56

```



```

Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&63400086100000100
0000000000001000
Value 55
Name:          57
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F0086100000100
0000000000004000
Value 56
Name:          58
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F0086100000100
0000000000003000
Value 57
Name:          59
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F0086100000100
0000000000002000
Value 58
Name:          60
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F0086100000100
0000000000001000
Value 59
Name:          61
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B0086100000100
0000000000004000
Value 60
Name:          62
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B0086100000100
0000000000003000
Value 61
Name:          63
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B0086100000100
0000000000002000
Value 62
Name:          64
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B0086100000100
0000000000001000
Value 63
Name:          65
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&65400086100000100

```

```

0000000000004000
Value 64
Name:          66
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&65400086100000100
0000000000003000
Value 65
Name:          67
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&65400086100000100
0000000000002000
Value 66
Name:          68
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&65400086100000100
0000000000001000
Value 67
Name:          17
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F0086100000100
0000000000001000
Value 68
Name:          18
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F0086100000100
0000000000002000
Value 69
Name:          19
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F0086100000100
0000000000003000
Value 70
Name:          20
Type:          REG_SZ
Data:
SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&A13F0086100000100
0000000000004000
Value 71
Name:          69
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR__IQ2880_V0003____6040\1&2d12bed1&0&2914E22B090000100
0000000000003000
Value 72
Name:          70
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR__IQ2880_V0002____6040\1&2d12bed1&0&2914E22B090000100
0000000000002000
Value 73

```

Name: 71
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_IQSTOR_IQ2880_V0001____6040\1&2d12bed1&0&2914E22B090000100
 00000000000001000

Value 74
 Name: 72
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_IQSTOR_IQ2880_V0000____6040\1&2d12bed1&0&2914E22B090000100
 0000000000000000

CurrentControlSet\Services\IfIp

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp
 Class Name: <NO CLASS>
 Last Write Time: 3/6/2007 - 11:10 AM
 Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0

Value 2
 Name: ErrorControl
 Type: REG_DWORD
 Data: 0x1

Value 3
 Name: Tag
 Type: REG_DWORD
 Data: 0x6

Value 4
 Name: ImagePath
 Type: REG_EXPAND_SZ
 Data: system32\DRIVERS\IfIp.sys

Value 5
 Name: DisplayName
 Type: REG_SZ
 Data: UniSys Intelligent Fibre Channel Fabric Bus Enumerator

Value 6
 Name: Group
 Type: REG_SZ
 Data: Boot Bus Extender

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp\Security
 Class Name: <NO CLASS>
 Last Write Time: 1/12/2007 - 7:47 AM
 Value 0
 Name: Security
 Type: REG_BINARY

Data:
 00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
Ä.....
 00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02 80 14 00

 00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00 00 00 00
ÿ.....
 00000030 02 00 88 00 06 00 00 00 - 00 00 14 00 fd 01 02 00
ÿ.....
 00000040 01 01 00 00 00 00 00 05 - 12 00 00 00 00 00 18 00
ÿ.....
 00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20 00 00 00
ÿ.....
 00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01 01 00 00

 00000070 00 00 00 05 04 00 00 00 - 00 00 14 00 8d 01 02 00

 00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00

 00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00

 000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
ÿ.....
 000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
#.....
 000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp\Enum
 Class Name: <NO CLASS>
 Last Write Time: 3/6/2007 - 11:10 AM

Value 0
 Name: 0
 Type: REG_SZ
 Data: Root\SYSTEM\0003

Value 1
 Name: Count
 Type: REG_DWORD
 Data: 0x1

Value 2
 Name: NextInstance
 Type: REG_DWORD
 Data: 0x1

CurrentControlSet\Services\ifxp

Key Name:
 HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp
 Class Name: <NO CLASS>
 Last Write Time: 3/6/2007 - 11:10 AM

Value 0
 Name: Type
 Type: REG_DWORD
 Data: 0x1

Value 1
 Name: Start
 Type: REG_DWORD
 Data: 0

```

Value 2
  Name:      ErrorControl
  Type:      REG_DWORD
  Data:      0x1

Value 3
  Name:      Tag
  Type:      REG_DWORD
  Data:      0x22

Value 4
  Name:      ImagePath
  Type:      REG_EXPAND_SZ
  Data:      system32\DRIVERS\ifxp.sys

Value 5
  Name:      DisplayName
  Type:      REG_SZ
  Data:      UniSys Intelligent Fibre Channel Fabric Bus Adapter

Value 6
  Name:      Group
  Type:      REG_SZ
  Data:      SCSI Miniport

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Parameters
Class Name:      <NO CLASS>
Last Write Time: 1/11/2007 - 4:25 PM

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Parameters\PnpI
nterface
Class Name:      <NO CLASS>
Last Write Time: 1/11/2007 - 4:25 PM
Value 0
  Name:      5
  Type:      REG_DWORD
  Data:      0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Security
Class Name:      <NO CLASS>
Last Write Time: 1/11/2007 - 4:25 PM
Value 0
  Name:      Security
  Type:      REG_BINARY
  Data:
00000000  01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
.....Ä.....
00000010  30 00 00 00 02 00 1c 00 - 01 00 00 00 02 80 14 00
0.....
00000020  ff 01 0f 00 01 01 00 00 - 00 00 00 01 00 00 00 00
ÿ.....
00000030  02 00 88 00 06 00 00 00 - 00 00 14 00 fd 01 02 00
.....ÿ.....
00000040  01 01 00 00 00 00 00 05 - 12 00 00 00 00 00 18 00
.....
00000050  ff 01 0f 00 01 02 00 00 - 00 00 00 05 20 00 00 00  ÿ.....
.....
00000060  20 02 00 00 00 00 14 00 - 8d 01 02 00 01 01 00 00
.....
00000070  00 00 00 05 04 00 00 00 - 00 00 14 00 8d 01 02 00
.....

```

```

.....
00000080  01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00
.....
00000090  00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
.....
000000a0  00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
.....ÿ.....
000000b0  20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
...#.....
000000c0  12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
.....
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Enum
Class Name:      <NO CLASS>
Last Write Time: 3/6/2007 - 11:10 AM
Value 0
  Name:      0
  Type:      REG_SZ
  Data:      PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&35728da7&0&0008E8

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

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

Value 3
  Name:      1
  Type:      REG_SZ
  Data:      PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&17f7f795&0&0008F8

Value 4
  Name:      2
  Type:      REG_SZ
  Data:      PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&34fd2864&0&0008F8

Value 5
  Name:      3
  Type:      REG_SZ
  Data:      PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&ff00977&0&0008E8

Value 6
  Name:      4
  Type:      REG_SZ
  Data:      PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&2d37a410&0&0008F8

Value 7
  Name:      5
  Type:      REG_SZ
  Data:      PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&11e963dd&0&0008E8

Value 8
  Name:      6

```

```

Type:          REG_SZ
Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&2bc6862c&0&0008F8
Value 9
Name:          7
Type:          REG_SZ
Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&20defcf3&0&0008F8
Value 10
Name:          8
Type:          REG_SZ
Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&14834304&0&0008E8
Value 11
Name:          9
Type:          REG_SZ
Data:
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\5&399dd4fb&0&0008F8

```

CurrentControlSet\Services\lpkdrv

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpkdrv
Class Name: <NO CLASS>
Last Write Time: 3/6/2007 - 11:10 AM

```

```

Value 0
Name:          Type
Type:          REG_DWORD
Data:          0x1
Value 1
Name:          Start
Type:          REG_DWORD
Data:          0x3
Value 2
Name:          ErrorControl
Type:          REG_DWORD
Data:          0x1
Value 3
Name:          ImagePath
Type:          REG_EXPAND_SZ
Data:          sysTem32\DRIVERS\lpkdrv.sys
Value 4
Name:          DisplayName
Type:          REG_SZ
Data:          lpkdrv
Value 5
Name:          Description
Type:          REG_SZ
Data:          LPXKSLI2 driver.

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpkdrv\Affinity
Class Name: <NO CLASS>
Last Write Time: 2/8/2007 - 9:35 AM

```

```

Value 0
Name:          0
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 1
Name:          1
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 2
Name:          2
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 3
Name:          3
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 4
Name:          4
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 5
Name:          5
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 6
Name:          6
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 7
Name:          7
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 8
Name:          8
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 9
Name:          9
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 10
Name:          10
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 11
Name:          11
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 12
Name:          12
Type:          REG_SZ
Data:          0xffffffffffffffff
Value 13

```

Name: 13
Type: REG_SZ
Data: 0xffffffffffffffff

Value 14
Name: 14
Type: REG_SZ
Data: 0xffffffffffffffff

Value 15
Name: 15
Type: REG_SZ
Data: 0xffffffffffffffff

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpkdrv\Coalesce
Class Name: <NO CLASS>
Last Write Time: 3/5/2007 - 8:21 PM

Value 0
Name: 0
Type: REG_DWORD
Data: 0xc5140000

Value 1
Name: 1
Type: REG_DWORD
Data: 0xc5140000

Value 2
Name: 2
Type: REG_DWORD
Data: 0xc5140000

Value 3
Name: 3
Type: REG_DWORD
Data: 0xc5140000

Value 4
Name: 4
Type: REG_DWORD
Data: 0xc5140000

Value 5
Name: 5
Type: REG_DWORD
Data: 0xc5140000

Value 6
Name: 6
Type: REG_DWORD
Data: 0

Value 7
Name: 7
Type: REG_DWORD
Data: 0

Value 8
Name: 8
Type: REG_DWORD
Data: 0

Value 9
Name: 9

Type: REG_DWORD
Data: 0

Value 10
Name: 10
Type: REG_DWORD
Data: 0

Value 11
Name: 11
Type: REG_DWORD
Data: 0

Value 12
Name: 12
Type: REG_DWORD
Data: 0

Value 13
Name: 13
Type: REG_DWORD
Data: 0

Value 14
Name: 14
Type: REG_DWORD
Data: 0

Value 15
Name: 15
Type: REG_DWORD
Data: 0

Key Name: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpkdrv\Security
Class Name: <NO CLASS>
Last Write Time: 2/8/2007 - 9:35 AM

Value 0
Name: Security
Type: REG_BINARY
Data:

00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
.....Ä.....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02 80 14 00
0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00 00 00 00
ÿ.....
00000030 02 00 88 00 06 00 00 00 - 00 00 14 00 fd 01 02 00
.....ÿ.....
00000040 01 01 00 00 00 00 00 05 - 12 00 00 00 00 00 18 00
.....ÿ.....
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20 00 00 00 ÿ.....
.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01 01 00 00
.....
00000070 00 00 00 05 04 00 00 00 - 00 00 14 00 8d 01 02 00
.....
00000080 01 01 00 00 00 00 00 05 - 06 00 00 00 00 00 14 00
.....
00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
.....
000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 00 05
.....ÿ.....
000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 00 05
...#.....

000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpkdrvrv\TgtIntCnt
Class Name: <NO CLASS>
Last Write Time: 2/8/2007 - 9:35 AM

Value 0
Name: 0
Type: REG_DWORD
Data: 0

Value 1
Name: 1
Type: REG_DWORD
Data: 0

Value 2
Name: 2
Type: REG_DWORD
Data: 0

Value 3
Name: 3
Type: REG_DWORD
Data: 0

Value 4
Name: 4
Type: REG_DWORD
Data: 0

Value 5
Name: 5
Type: REG_DWORD
Data: 0

Value 6
Name: 6
Type: REG_DWORD
Data: 0

Value 7
Name: 7
Type: REG_DWORD
Data: 0

Value 8
Name: 8
Type: REG_DWORD
Data: 0

Value 9
Name: 9
Type: REG_DWORD
Data: 0

Value 10
Name: 10
Type: REG_DWORD
Data: 0

Value 11
Name: 11

Type: REG_DWORD
Data: 0

Value 12
Name: 12
Type: REG_DWORD
Data: 0

Value 13
Name: 13
Type: REG_DWORD
Data: 0

Value 14
Name: 14
Type: REG_DWORD
Data: 0

Value 15
Name: 15
Type: REG_DWORD
Data: 0

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lpkdrvrv\Enum
Class Name: <NO CLASS>
Last Write Time: 3/6/2007 - 11:10 AM

Value 0
Name: 0
Type: REG_SZ
Data: PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&28be6aa6&0&08F8

Value 1
Name: Count
Type: REG_DWORD
Data: 0x6

Value 2
Name: NextInstance
Type: REG_DWORD
Data: 0x6

Value 3
Name: 1
Type: REG_SZ
Data: PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&28be6aa6&0&09F8

Value 4
Name: 2
Type: REG_SZ
Data: PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&363dffcf&0&08F8

Value 5
Name: 3
Type: REG_SZ
Data: PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&363dffcf&0&09F8

Value 6
Name: 4
Type: REG_SZ
Data:

PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&14ebe0a&0&08F8

Value 7
Name: 5
Type: REG_SZ
Data:

PCI\VEN_10DF&DEV_FD01&SUBSYS_FD0110DF&REV_01\4&14ebe0a&0&09F8

CurrentControlSet\Services\PartMgr

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PartMgr
Class Name: <NO CLASS>
Last Write Time: 3/6/2007 - 11:10 AM

Value 0
Name: DisplayName
Type: REG_SZ
Data: Partition Manager

Value 1
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

Value 2
Name: Group
Type: REG_SZ
Data: System Bus Extender

Value 3
Name: Start
Type: REG_DWORD
Data: 0

Value 4
Name: Tag
Type: REG_DWORD
Data: 0x5

Value 5
Name: Type
Type: REG_DWORD
Data: 0x1

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PartMgr\Enum
Class Name: <NO CLASS>
Last Write Time: 3/6/2007 - 2:49 PM

Value 0
Name: 0
Type: REG_SZ
Data: Root\LEGACY_PARTMGR\0000

Value 1
Name: Count
Type: REG_DWORD
Data: 0x4b

Value 2
Name: NextInstance
Type: REG_DWORD

Data: 0x4b

Value 3
Name: 1
Type: REG_SZ
Data:

SCSI\Disk&Ven_LSILOGIC&Prod_Logical_Volume&Rev_3000\5&2397a188&0&080

Value 4
Name: 2
Type: REG_SZ
Data:

SCSI\Disk&Ven_IQSTOR_IQ2880_V0000_6040\1&2d12bed1&0&F669032B090000100
0000000000000000

Value 5
Name: 3
Type: REG_SZ
Data:

SCSI\Disk&Ven_IQSTOR_IQ2880_V0003_6040\1&2d12bed1&0&3C502E2B090000100
00000000000003000

Value 6
Name: 4
Type: REG_SZ
Data:

SCSI\Disk&Ven_IQSTOR_IQ2880_V0002_6040\1&2d12bed1&0&3C502E2B090000100
00000000000002000

Value 7
Name: 5
Type: REG_SZ
Data:

SCSI\Disk&Ven_IQSTOR_IQ2880_V0001_6040\1&2d12bed1&0&3C502E2B090000100
00000000000001000

Value 8
Name: 6
Type: REG_SZ
Data:

SCSI\Disk&Ven_IQSTOR_IQ2880_V0000_6040\1&2d12bed1&0&3C502E2B090000100
00000000000000000

Value 9
Name: 7
Type: REG_SZ
Data:

SCSI\Disk&Ven_IQSTOR_IQ2880_V0003_6040\1&2d12bed1&0&1F077D2B090000100
00000000000003000

Value 10
Name: 8
Type: REG_SZ
Data:

SCSI\Disk&Ven_IQSTOR_IQ2880_V0002_6040\1&2d12bed1&0&1F077D2B090000100
00000000000002000

Value 11
Name: 9
Type: REG_SZ
Data:

SCSI\Disk&Ven_IQSTOR_IQ2880_V0001_6040\1&2d12bed1&0&1F077D2B090000100
00000000000001000

Value 12
Name: 10

```

Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&1F077D2B090000100
0000000000000000
Value 13
Name:          11
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&B037372B090000100
00000000000003000
Value 14
Name:          12
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&B037372B090000100
00000000000002000
Value 15
Name:          13
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&B037372B090000100
00000000000001000
Value 16
Name:          14
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&B037372B090000100
0000000000000000
Value 17
Name:          15
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&4B57072B090000100
00000000000003000
Value 18
Name:          16
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&4B57072B090000100
00000000000002000
Value 19
Name:          17
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&4B57072B090000100
00000000000001000
Value 20
Name:          18
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&4B57072B090000100
0000000000000000
Value 21
Name:          23
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&F5B1BC2B090000100

```

```

00000000000003000
Value 22
Name:          24
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&F5B1BC2B090000100
00000000000002000
Value 23
Name:          25
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&F5B1BC2B090000100
00000000000001000
Value 24
Name:          26
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&F5B1BC2B090000100
0000000000000000
Value 25
Name:          27
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&7E95FF2B090000100
00000000000003000
Value 26
Name:          28
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&7E95FF2B090000100
00000000000002000
Value 27
Name:          29
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&7E95FF2B090000100
00000000000001000
Value 28
Name:          30
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0004___6040\1&2d12bed1&0&7E95FF2B090000100
0000000000000000
Value 29
Name:          31
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&951DF52B090000100
00000000000003000
Value 30
Name:          32
Type:          REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&951DF52B090000100
00000000000002000
Value 31

```


Name: 33
Type: REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&951DF52B090000100
0000000000001000

Value 32
Name: 34
Type: REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&951DF52B090000100
0000000000000000

Value 33
Name: 35
Type: REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&6F630C2B090000100
00000000000003000

Value 34
Name: 36
Type: REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&6F630C2B090000100
0000000000002000

Value 35
Name: 37
Type: REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&6F630C2B090000100
0000000000001000

Value 36
Name: 38
Type: REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&6F630C2B090000100
0000000000000000

Value 37
Name: 39
Type: REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&651AFD2B090000100
00000000000003000

Value 38
Name: 40
Type: REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&651AFD2B090000100
00000000000002000

Value 39
Name: 41
Type: REG_SZ
Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&651AFD2B090000100
0000000000001000

Value 40
Name: 42
Type: REG_SZ
Data:

SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&651AFD2B090000100
0000000000000000

Value 41
Name: 43
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DD3F0086100000100
00000000000004000

Value 42
Name: 44
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DD3F0086100000100
00000000000003000

Value 43
Name: 45
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DD3F0086100000100
00000000000002000

Value 44
Name: 46
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DD3F0086100000100
00000000000001000

Value 45
Name: 47
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&9B3F0086100000100
00000000000004000

Value 46
Name: 48
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&9B3F0086100000100
00000000000003000

Value 47
Name: 49
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&9B3F0086100000100
00000000000002000

Value 48
Name: 50
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&9B3F0086100000100
00000000000001000

Value 49
Name: 51
Type: REG_SZ
Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&DB3F0086100000100
00000000000004000

Value 50
 Name: 52
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F0086100000100
 0000000000003000

Value 51
 Name: 53
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F0086100000100
 0000000000002000

Value 52
 Name: 54
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&DB3F0086100000100
 0000000000001000

Value 53
 Name: 55
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&63400086100000100
 0000000000004000

Value 54
 Name: 56
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&63400086100000100
 0000000000003000

Value 55
 Name: 57
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&63400086100000100
 0000000000002000

Value 56
 Name: 58
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&63400086100000100
 0000000000001000

Value 57
 Name: 59
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F0086100000100
 0000000000004000

Value 58
 Name: 60
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F0086100000100
 0000000000003000

Value 59
 Name: 61
 Type: REG_SZ

Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F0086100000100
 000000000002000

Value 60
 Name: 62
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&C33F0086100000100
 0000000000001000

Value 61
 Name: 63
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B0086100000100
 0000000000004000

Value 62
 Name: 64
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B0086100000100
 0000000000003000

Value 63
 Name: 65
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B0086100000100
 0000000000002000

Value 64
 Name: 66
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&062B0086100000100
 0000000000001000

Value 65
 Name: 67
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&65400086100000100
 0000000000004000

Value 66
 Name: 68
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&65400086100000100
 0000000000003000

Value 67
 Name: 69
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&65400086100000100
 0000000000002000

Value 68
 Name: 70
 Type: REG_SZ
 Data:
 SCSI\Disk&Ven_UNISYS__VirtualStorage__01.0\1&2d12bed1&0&65400086100000100
 0000000000001000

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Value 69
  Name:          19
  Type:          REG_SZ
  Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&A13F0086100000100
0000000000001000

Value 70
  Name:          20
  Type:          REG_SZ
  Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&A13F0086100000100
0000000000002000

Value 71
  Name:          21
  Type:          REG_SZ
  Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&A13F0086100000100
0000000000003000

Value 72
  Name:          22
  Type:          REG_SZ
  Data:
SCSI\Disk&Ven_UNISYS_VirtualStorage__01.0\1&2d12bed1&0&A13F0086100000100
0000000000004000

Value 73
  Name:          71
  Type:          REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0003___6040\1&2d12bed1&0&2914E22B090000100
0000000000003000

Value 74
  Name:          72
  Type:          REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0002___6040\1&2d12bed1&0&2914E22B090000100
0000000000002000

Value 75
  Name:          73
  Type:          REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0001___6040\1&2d12bed1&0&2914E22B090000100
0000000000001000

Value 76
  Name:          74
  Type:          REG_SZ
  Data:
SCSI\Disk&Ven_IQSTOR_IQ2880_V0000___6040\1&2d12bed1&0&2914E22B090000100
0000000000000000

```

Windows 2003 Server Client Configuration Information

(Common to 6 clients except for System Name, IP Address & MAC Address)

Hwconfig_Client.ver

System Information report written at: 03/07/07 14:47:43
System Name: SAMM-CLIENT1
[System Summary]

```

Item Value
OS Name Microsoft(R) Windows(R) Server 2003, Standard Edition
Version 5.2.3790 Service Pack 1 Build 3790
Other OS Description R2
OS Manufacturer Microsoft Corporation
System Name SAMM-CLIENT1
System Manufacturer UNISYS Corp.
System Model ES3220L
System Type X86-based PC
Processor x86 Family 6 Model 15 Stepping 6 GenuineIntel ~2327 Mhz
Processor x86 Family 6 Model 15 Stepping 6 GenuineIntel ~2327 Mhz
BIOS Version/Date UNISYS Corp. 1.2.0, 10/23/2006
SMBIOS Version 2.4
Windows Directory C:\WINDOWS
System Directory C:\WINDOWS\system32
Boot Device \Device\HarddiskVolume2
Locale United States
Hardware Abstraction Layer Version = "5.2.3790.1830 (srv03_sp1_rtm.050324-1447) "
User Name SAMM-CLIENT1\Administrator
Time Zone Pacific Standard Time
Total Physical Memory 2,047.18 MB
Available Physical Memory 1.74 GB
Total Virtual Memory 3.85 GB
Available Virtual Memory 3.75 GB
Page File Space 2.00 GB
Page File C:\pagefile.sys

[Hardware Resources]

[Conflicts/Sharing]

Resource Device
I/O Port 0x00000000-0x000000CF7 PCI bus
I/O Port 0x00000000-0x000000CF7 Direct memory access controller

Memory Address 0xF4000000-0xF7FFFFFFF Intel(R) 6311ESB/6321ESB PCI Express
Upstream Port - 3500
Memory Address 0xF4000000-0xF7FFFFFFF Intel(R) 6311ESB/6321ESB PCI Express
Downstream Port E1 - 3510
Memory Address 0xF4000000-0xF7FFFFFFF PCI standard PCI-to-PCI bridge
Memory Address 0xF4000000-0xF7FFFFFFF Broadcom BCM5708C NetXtreme II GigE

IRQ 21 Intel(R) 631xESB/6321ESB USB Universal Host Controller - 2688
IRQ 21 Intel(R) 631xESB/6321ESB USB Universal Host Controller - 268A
IRQ 21 Intel(R) 631xESB/6321ESB USB2 Enhanced Host Controller - 268C

Memory Address 0xD8000000-0xD80FFFFFFF Intel(R) 5000 Series Chipset PCI
Express x4 Port 3 - 25E3
Memory Address 0xD8000000-0xD80FFFFFFF PCI standard PCI-to-PCI bridge

```

I/O Port 0x0000E000-0x0000EFFFIntel(R) 5000 Series Chipset PCI Express x8 Port 6-7 - 25F9
I/O Port 0x0000E000-0x0000EFFFIntel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A

IRQ 16 Intel(R) 5000X Chipset Memory Controller Hub - 25C0
IRQ 16 Intel(R) 5000 Series Chipset PCI Express x4 Port 2 - 25E2
IRQ 16 Intel(R) 6311ESB/6321ESB PCI Express Upstream Port - 3500
IRQ 16 Intel(R) 6311ESB/6321ESB PCI Express Downstream Port E1 - 3510
IRQ 16 Broadcom BCM5708C NetXtreme II GigE
IRQ 16 Intel(R) 6311ESB/6321ESB PCI Express Downstream Port E2 - 3514
IRQ 16 Intel(R) 5000 Series Chipset PCI Express x4 Port 3 - 25E3
IRQ 16 Intel(R) 5000 Series Chipset PCI Express x8 Port 4-5 - 25F8
IRQ 16 Intel(R) 5000 Series Chipset PCI Express x8 Port 6-7 - 25F9
IRQ 16 Intel(R) 631xESB/6321ESB PCI Express Root Port 1 - 2690
IRQ 16 Broadcom BCM5708C NetXtreme II GigE

Memory Address 0xA0000-0xBFFFFPCI bus
Memory Address 0xA0000-0xBFFFFATI ES1000

Memory Address 0xF8000000-0xFBFFFFFFIntel(R) 631xESB/6321ESB PCI Express Root Port 1 - 2690
Memory Address 0xF8000000-0xFBFFFFFFPCI standard PCI-to-PCI bridge
Memory Address 0xF8000000-0xFBFFFFFFBroadcom BCM5708C NetXtreme II GigE

[DMA]

ResourceDevice Status
Channel 4Direct memory access controllerOK
Channel 2Standard floppy disk controllerOK

[Forced Hardware]

Device PNP Device ID

[I/O]

ResourceDevice Status
0x00000000-0x00000CF7PCI busOK
0x00000000-0x00000CF7Direct memory access controllerOK
0x00000D00-0x0000FFFFPCI busOK
0x0000E000-0x0000EFFFIntel(R) 5000 Series Chipset PCI Express x8 Port 6-7 - 25F9 OK
0x0000E000-0x0000EFFFIntel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A OK
0x0000CCE0-0x0000CCFFIntel(R) 631xESB/6321ESB USB Universal Host Controller - 2688OK
0x0000CCC0-0x0000CCDFIntel(R) 631xESB/6321ESB USB Universal Host Controller - 2689OK
0x0000CCA0-0x0000CCBFIntel(R) 631xESB/6321ESB USB Universal Host Controller - 268AOK
0x0000DC00-0x0000DCFFATI ES1000 OK
0x000003B0-0x000003BBATI ES1000 OK
0x000003C0-0x000003DFATI ES1000 OK
0x00000A79-0x00000A79ISAPNP Read Data PortOK
0x00000279-0x00000279ISAPNP Read Data PortOK
0x00000274-0x00000277ISAPNP Read Data PortOK
0x00000080-0x0000009FDirect memory access controllerOK
0x000000C0-0x000000DFDirect memory access controllerOK
0x000000F0-0x000000FFNumeric data processorOK
0x00000020-0x0000003FProgrammable interrupt controllerOK
0x000000A0-0x000000BFFProgrammable interrupt controllerOK
0x000004D0-0x000004D1Programmable interrupt controllerOK
0x00000061-0x00000061System boardOK
0x00000070-0x0000007FSystem CMOS/real time clockOK

0x00000040-0x0000005FSystem timerOK
0x0000003F0-0x0000003F5Standard floppy disk controllerOK
0x0000003F7-0x0000003F7Standard floppy disk controllerOK
0x0000003F8-0x0000003FFCommunications Port (COM1)OK
0x0000002F8-0x0000002FFCommunications Port (COM2)OK
0x000000800-0x00000087FSystem boardOK
0x000000880-0x0000008BFSystem boardOK
0x0000008C0-0x0000008DFSystem boardOK
0x0000008E0-0x0000008E3System boardOK
0x000000C00-0x000000C7FSystem boardOK
0x000000CA0-0x000000CA7System boardOK
0x000000CA9-0x000000CABSystem boardOK
0x000000CAD-0x000000CAFSystem boardOK
0x000000060-0x000000060System boardOK
0x000000064-0x000000064System boardOK
0x000000CA8-0x000000CA8System boardOK
0x000000CAC-0x000000CACSystem boardOK
0x00000FC00-0x00000FC0FIntel(R) 631xESB/6321ESB Ultra ATA Storage Controller - 269EOK
0x0000001F0-0x0000001F7Primary IDE ChannelOK
0x0000003F6-0x0000003F6Primary IDE ChannelOK

[IRQs]

ResourceDevice Status

IRQ 9 Microsoft ACPI-Compliant SystemOK
IRQ 16 Intel(R) 5000X Chipset Memory Controller Hub - 25C0OK
IRQ 16 Intel(R) 5000 Series Chipset PCI Express x4 Port 2 - 25E2OK
IRQ 16 Intel(R) 6311ESB/6321ESB PCI Express Upstream Port - 3500OK
IRQ 16 Intel(R) 6311ESB/6321ESB PCI Express Downstream Port E1 - 3510OK
IRQ 16 Broadcom BCM5708C NetXtreme II GigEOK
IRQ 16 Intel(R) 6311ESB/6321ESB PCI Express Downstream Port E2 - 3514OK
IRQ 16 Intel(R) 5000 Series Chipset PCI Express x4 Port 3 - 25E3OK
IRQ 16 Intel(R) 5000 Series Chipset PCI Express x8 Port 4-5 - 25F8OK
IRQ 16 Intel(R) 5000 Series Chipset PCI Express x8 Port 6-7 - 25F9OK
IRQ 16 Intel(R) 631xESB/6321ESB PCI Express Root Port 1 - 2690OK
IRQ 16 Broadcom BCM5708C NetXtreme II GigEOK
IRQ 78 DELL PERC 5/i Integrated RAID ControllerOK
IRQ 224 Unisys VI on Emulex LightPulse AdapterOK
IRQ 225 Unisys VI on Emulex LightPulse AdapterOK
IRQ 21 Intel(R) 631xESB/6321ESB USB Universal Host Controller - 2688OK
IRQ 21 Intel(R) 631xESB/6321ESB USB Universal Host Controller - 268AOK
IRQ 21 Intel(R) 631xESB/6321ESB USB2 Enhanced Host Controller - 268COK
IRQ 20 Intel(R) 631xESB/6321ESB USB Universal Host Controller - 2689OK
IRQ 19 ATI ES1000 OK
IRQ 13 Numeric data processorOK
IRQ 8 System CMOS/real time clockOK
IRQ 0 System timerOK
IRQ 6 Standard floppy disk controllerOK
IRQ 4 Communications Port (COM1)OK
IRQ 3 Communications Port (COM2)OK
IRQ 14 Primary IDE ChannelOK

[Memory]

ResourceDevice Status

0xA0000-0xBFFFFPCI busOK
0xA0000-0xBFFFFATI ES1000 OK
0x80000000-0xFDFFFFFFFPCI busOK
0xF2000000-0xF7FFFFFFIntel(R) 5000 Series Chipset PCI Express x4 Port 2 - 25E2 OK
0xF4000000-0xF7FFFFFFIntel(R) 6311ESB/6321ESB PCI Express Upstream Port - 3500 OK
0xF4000000-0xF7FFFFFFIntel(R) 6311ESB/6321ESB PCI Express Downstream Port E1 - 3510OK
0xF4000000-0xF7FFFFFFPCI standard PCI-to-PCI bridgeOK

```

0xF4000000-0xF7FFFFFFBroadcom BCM5708C NetXtreme II GigEOK
0xFC600000-0xFC8FFFFFFIntel(R) 5000 Series Chipset PCI Express x4 Port 3 -
25E3 OK
0xD8000000-0xD80FFFFFFIntel(R) 5000 Series Chipset PCI Express x4 Port 3 -
25E3 OK
0xD8000000-0xD80FFFFFFPCI standard PCI-to-PCI bridgeOK
0xFC700000-0xFC8FFFFFFPCI standard PCI-to-PCI bridgeOK
0xD80F0000-0xD80FFFFFFDELL PERC 5/i Integrated RAID ControllerOK
0xFC7E0000-0xFC7FFFFFFDELL PERC 5/i Integrated RAID ControllerOK
0xFC300000-0xFC5FFFFFFIntel(R) 5000 Series Chipset PCI Express x8 Port 6-7
- 25F9 OK
0xFC400000-0xFC5FFFFFFIntel(R) 6700PXH PCI Express-to-PCI Bridge B - 032A
OK
0xFC4FF000-0xFC4FFFFFFUnisys VI on Emulex LightPulse AdapterOK
0xFC4FEC00-0xFC4FECFFUnisys VI on Emulex LightPulse AdapterOK
0xFC4FD000-0xFC4FDFFFUnisys VI on Emulex LightPulse AdapterOK
0xFC4FE800-0xFC4FE8FFUnisys VI on Emulex LightPulse AdapterOK
0xF8000000-0xFBFFFFFFIntel(R) 631xESB/6321ESB PCI Express Root Port 1 -
2690 OK
0xF8000000-0xFBFFFFFFPCI standard PCI-to-PCI bridgeOK
0xF8000000-0xFBFFFFFFBroadcom BCM5708C NetXtreme II GigEOK
0xFC900000-0xFC9003FFIntel(R) 631xESB/6321ESB USB2 Enhanced Host
Controller - 26C0K
0xD0000000-0xD7FFFFFFATI ES1000 OK
0xFC1F0000-0xFC1FFFFFFATI ES1000 OK
0xE0000000-0xEFFFFFFMotherboard resourcesOK
0xFED00000-0xFED003FFHigh Precision Event TimerOK

```

[Components]

[Multimedia]

[Audio Codecs]

```

CODEC ManufacturerDescriptionStatusFileVersionSize Creation Date
c:\windows\system32\msaud32.acmMicrosoft CorporationWindows Media Audio
Codec OK C:\WINDOWS\system32\MSAUD32.ACM8.00.00.4487288.00 KB
(294,912 bytes)12/13/2006 5:25 AM
c:\windows\system32\msg723.acmMicrosoft CorporationOK
C:\WINDOWS\system32\MSG723.ACM5.2.3790.1830120.00 KB (122,880 bytes)12/
13/2006 1:53 PM
c:\windows\system32\tssoft32.acmDSP GROUP, INC.OK
C:\WINDOWS\system32\TSSOFT32.ACM1.019.50 KB (9,728 bytes)12/13/2006 5:27
AM
c:\windows\system32\msgsm32.acmMicrosoft CorporationOK
C:\WINDOWS\system32\MSGSM32.ACM5.2.3790.0 (srv03_rtm.030324-2048)20.50 KB
(20,992 bytes)12/13/2006 5:25 AM
c:\windows\system32\msg711.acmMicrosoft CorporationOK
C:\WINDOWS\system32\MSG711.ACM5.2.3790.0 (srv03_rtm.030324-2048)10.00 KB
(10,240 bytes)12/13/2006 5:25 AM
c:\windows\system32\msadp32.acmMicrosoft CorporationOK
C:\WINDOWS\system32\MSADP32.ACM5.2.3790.0 (srv03_rtm.030324-2048)14.50 KB
(14,848 bytes)12/13/2006 5:25 AM
c:\windows\system32\l3codeca.acmFraunhofer Institut Integrierte
Schaltungen IISFraunhofer IIS MPEG Layer-3 CodecOK
C:\WINDOWS\system32\L3CODECA.ACM1, 9, 0, 0305284.00 KB (290,816 bytes)12/
13/2006 5:24 AM
c:\windows\system32\imaadp32.acmMicrosoft CorporationOK
C:\WINDOWS\system32\IMAADP32.ACM5.2.3790.0 (srv03_rtm.030324-2048)15.50
KB (15,872 bytes)12/13/2006 5:24 AM
c:\windows\system32\sl_anet.acmSipro Lab Telecom Inc.Sipro Lab Telecom
Audio CodecOK C:\WINDOWS\system32\SL_ANET.ACM3.0284.00 KB (86,016 bytes)

```

12/13/2006 5:26 AM

[Video Codecs]

```

CODEC ManufacturerDescriptionStatusFileVersionSize Creation Date
c:\windows\system32\msh261.drvMicrosoft CorporationOK
C:\WINDOWS\system32\MSH261.DRV5.2.3790.1830184.00 KB (188,416 bytes)12/
13/2006 1:53 PM
c:\windows\system32\msyuv.dllMicrosoft CorporationOK
C:\WINDOWS\system32\MSYUV.DLL5.2.3790.0 (srv03_rtm.030324-2048)16.50 KB
(16,896 bytes)3/24/2003 5:49 PM
c:\windows\system32\msh263.drvMicrosoft CorporationOK
C:\WINDOWS\system32\MSH263.DRV5.2.3790.1830288.00 KB (294,912 bytes)3/24/
2005 10:07 AM
c:\windows\system32\tsbyuv.dllMicrosoft CorporationOK
C:\WINDOWS\system32\TSBYUV.DLL5.2.3790.0 (srv03_rtm.030324-2048)8.00 KB
(8,192 bytes)3/24/2003 5:50 PM
c:\windows\system32\iyuv_32.dllMicrosoft CorporationOK
C:\WINDOWS\system32\IYUV_32.DLL5.2.3790.1830 (srv03_spl_rtm.050324-1447)
46.50 KB (47,616 bytes)3/24/2005 10:05 AM
c:\windows\system32\msvidc32.dllMicrosoft CorporationOK
C:\WINDOWS\system32\MSVIDC32.DLL5.2.3790.0 (srv03_rtm.030324-2048)26.50
KB (27,136 bytes)12/13/2006 5:25 AM
c:\windows\system32\msrle32.dllMicrosoft CorporationOK
C:\WINDOWS\system32\MSRLE32.DLL5.2.3790.0 (srv03_rtm.030324-2048)10.50 KB
(10,752 bytes)12/13/2006 5:25 AM

```

[CD-ROM]

```

Item Value
Drive E:
DescriptionCD-ROM Drive
Media LoadedNo
Media TypeCD-ROM
Name Dell Virtual CDROM USB Device
Manufacturer(Standard CD-ROM drives)
Status OK
Transfer RateNot Available
SCSI Target IDNot Available
PNP Device ID
USBSTOR\CDROM&VEN_DELL&PROD_VIRTUAL_CDROM&REV_123\8&2428035B&0&1028__123
456&0
Driver c:\windows\system32\drivers\cdrom.sys (5.2.3790.1830
(srv03_spl_rtm.050324-1447), 51.00 KB (52,224 bytes), 12/13/2006 5:23 AM)

Drive F:
DescriptionCD-ROM Drive
Media LoadedNo
Media TypeCD-ROM
Name HL-DT-ST CDRW/DVD GCC4244
Manufacturer(Standard CD-ROM drives)
Status OK
Transfer RateNot Available
SCSI Target ID0
PNP Device IDIDE\CDROMHL-DT-ST_CDRW/
DVD_GCC4244_B101_5&1F424344&0&0.0
Driver c:\windows\system32\drivers\cdrom.sys (5.2.3790.1830
(srv03_spl_rtm.050324-1447), 51.00 KB (52,224 bytes), 12/13/2006 5:23 AM)

```

[Sound Device]

Item Value

[Display]

Item Value

Name ATI ES1000
 PNP Device ID
 PCI\VEN_1002&DEV_515E&SUBSYS_01B21028&REV_02\4&2014205D&0&68F0
 Adapter TypeNot Available
 Adapter DescriptionATI Technologies Inc.
 Adapter RAMNot Available
 Installed DriversNot Available
 Driver VersionNot Available
 INF File6.14.10.6583 (oem7.inf section)
 Color Planesati2mtag_RN50
 Color Table EntriesNot Available
 ResolutionNot Available
 Bits/PixelNot Available
 Memory Address0xD0000000-0xD7FFFFFFF
 I/O Port0x0000DC00-0x0000DCFF
 Memory Address0xFC1F0000-0xFC1FFFFFFF
 IRQ ChannelIRQ 19
 I/O Port0x000003B0-0x000003BB
 I/O Port0x000003C0-0x000003DF
 Memory Address0xA0000-0xBFFFFF
 Driver c:\windows\system32\drivers\ati2mtag.sys (6.14.10.6583, 1.32 MB (1,379,328 bytes), 12/13/2006 5:19 AM)

[Infrared]

Item Value

[Input]

[Keyboard]

Item Value
 DescriptionUSB Human Interface Device
 Name Enhanced (101- or 102-key)
 Layout 00000409
 PNP Device IDUSB\VID_0D3D&PID_0001&MI_00\6&161B4CCF&0&0000
 Number of Function Keys12
 Driver c:\windows\system32\drivers\hidusb.sys (5.2.3790.0 (srv03_rtm.030324-2048), 11.50 KB (11,776 bytes), 12/13/2006 5:24 AM)

DescriptionUSB Human Interface Device
 Name Enhanced (101- or 102-key)
 Layout 00000409
 PNP Device IDUSB\VID_413C&PID_0000&MI_00\7&30CC8B42&0&0000
 Number of Function Keys12
 Driver c:\windows\system32\drivers\hidusb.sys (5.2.3790.0 (srv03_rtm.030324-2048), 11.50 KB (11,776 bytes), 12/13/2006 5:24 AM)

[Pointing Device]

Item Value
 Hardware TypeHID-compliant mouse
 Number of Buttons3
 Status OK
 PNP Device IDHID\VID_0D3D&PID_0001&MI_01&COL01\7&1976D8EA&0&0000
 Power Management SupportedNo
 Double Click Threshold6
 HandednessRight Handed Operation
 Driver c:\windows\system32\drivers\mouhid.sys (5.2.3790.0 (srv03_rtm.030324-2048), 13.00 KB (13,312 bytes), 3/24/2003 3:03 PM)

Hardware TypeUSB Human Interface Device
 Number of Buttons3
 Status OK

PNP Device IDUSB\VID_413C&PID_0000&MI_01\7&30CC8B42&0&0001
 Power Management SupportedNo
 Double Click Threshold6
 HandednessRight Handed Operation
 Driver c:\windows\system32\drivers\hidusb.sys (5.2.3790.0 (srv03_rtm.030324-2048), 11.50 KB (11,776 bytes), 12/13/2006 5:24 AM)

[Modem]

Item Value

[Network]

[Adapter]

Item Value
 Name [00000001] Broadcom BCM5708C NetXtreme II GigE (NDIS VBD Client)
 Adapter TypeEthernet 802.3
 Product TypeBroadcom BCM5708C NetXtreme II GigE (NDIS VBD Client)
 InstalledYes
 PNP Device ID
 B06BDRV\L2ND&PCI_164C14E4&SUBSYS_01B21028&REV_12\6&1B6DEF2B&0&20050500
 Last Reset3/7/2007 2:24 PM
 Index 1
 Service NameI2nd
 IP Address192.168.90.1, 192.168.91.151
 IP Subnet255.255.255.0, 255.255.255.0
 Default IP GatewayNot Available
 DHCP EnabledNo
 DHCP ServerNot Available
 DHCP Lease ExpiresNot Available
 DHCP Lease ObtainedNot Available
 MAC Address00:18:8B:47:4B:1B
 Driver c:\windows\system32\drivers\bxnd52x.sys (2.6.14.0 built by: WinDDK, 47.00 KB (48,128 bytes), 12/13/2006 5:49 AM)

Name [00000002] Broadcom BCM5708C NetXtreme II GigE (NDIS VBD Client)
 Adapter TypeEthernet 802.3
 Product TypeBroadcom BCM5708C NetXtreme II GigE (NDIS VBD Client)
 InstalledYes
 PNP Device ID
 B06BDRV\L2ND&PCI_164C14E4&SUBSYS_01B21028&REV_12\8&29095A5B&0&20050900
 Last Reset3/7/2007 2:24 PM
 Index 2
 Service NameI2nd
 IP Address192.168.1.1
 IP Subnet255.255.255.0
 Default IP GatewayNot Available
 DHCP EnabledNo
 DHCP ServerNot Available
 DHCP Lease ExpiresNot Available
 DHCP Lease ObtainedNot Available
 MAC Address00:18:8B:47:4B:1D
 Driver c:\windows\system32\drivers\bxnd52x.sys (2.6.14.0 built by: WinDDK, 47.00 KB (48,128 bytes), 12/13/2006 5:49 AM)

Name [00000003] RAS Async Adapter
 Adapter TypeNot Available
 Product TypeRAS Async Adapter
 InstalledYes
 PNP Device IDNot Available
 Last Reset3/7/2007 2:24 PM
 Index 3
 Service NameAsyncMac

IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available

Name [00000004] WAN Miniport (L2TP)
Adapter TypeNot Available
Product TypeWAN Miniport (L2TP)
InstalledYes
PNP Device IDROOT\MS_L2TPMINIPORT\0000
Last Reset3/7/2007 2:24 PM
Index 4
Service NameRasl2tp
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available
Driver c:\windows\system32\drivers\rasl2tp.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 66.00 KB (67,584 bytes), 12/13/2006 5:26 AM)

Name [00000005] WAN Miniport (PPTP)
Adapter TypeWide Area Network (WAN)
Product TypeWAN Miniport (PPTP)
InstalledYes
PNP Device IDROOT\MS_PPTPMINIPORT\0000
Last Reset3/7/2007 2:24 PM
Index 5
Service NamePptpMiniport
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC Address50:50:54:50:30:30
Driver c:\windows\system32\drivers\rasppptp.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 61.00 KB (62,464 bytes), 12/13/2006 5:26 AM)

Name [00000006] WAN Miniport (PPPOE)
Adapter TypeWide Area Network (WAN)
Product TypeWAN Miniport (PPPOE)
InstalledYes
PNP Device IDROOT\MS_PPPOEMINIPORT\0000
Last Reset3/7/2007 2:24 PM
Index 6
Service NameRaspppoe
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC Address33:50:6F:45:30:30
Driver c:\windows\system32\drivers\raspppoe.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 40.00 KB (40,960 bytes), 12/13/2006 5:26 AM)

Name [00000007] Direct Parallel
Adapter TypeNot Available
Product TypeDirect Parallel
InstalledYes
PNP Device IDROOT\MS_PTMINIPORT\0000
Last Reset3/7/2007 2:24 PM
Index 7
Service NameRaspti
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available
Driver c:\windows\system32\drivers\raspti.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 19.50 KB (19,968 bytes), 12/13/2006 5:26 AM)

Name [00000008] WAN Miniport (IP)
Adapter TypeNot Available
Product TypeWAN Miniport (IP)
InstalledYes
PNP Device IDROOT\MS_NDISWANIP\0000
Last Reset3/7/2007 2:24 PM
Index 8
Service NameNdisWan
IP AddressNot Available
IP SubnetNot Available
Default IP GatewayNot Available
DHCP EnabledNo
DHCP ServerNot Available
DHCP Lease ExpiresNot Available
DHCP Lease ObtainedNot Available
MAC AddressNot Available
Driver c:\windows\system32\drivers\ndiswan.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 91.00 KB (93,184 bytes), 12/13/2006 5:25 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 Size16 bytes
Pseudo Stream OrientedNo
Supports BroadcastingYes
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingYes

Name RSVP UDP Service Provider
Connectionless ServiceYes
Guarantees DeliveryNo
Guarantees SequencingNo
Maximum Address Size16 bytes
Maximum Message Size63.93 KB (65,467 bytes)
Message OrientedYes
Minimum Address Size16 bytes
Pseudo Stream OrientedNo
Supports BroadcastingYes
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionYes
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingYes

Name RSVP TCP Service Provider
Connectionless ServiceNo
Guarantees DeliveryYes
Guarantees SequencingYes
Maximum Address Size16 bytes
Maximum Message Size0 bytes
Message OrientedNo
Minimum Address Size16 bytes
Pseudo Stream OrientedNo
Supports BroadcastingNo
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionYes
Supports Expedited DataYes
Supports Graceful ClosingYes
Supports Guaranteed BandwidthNo
Supports MulticastingNo

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{477541C7-5541-4C3A-990D-E8C70EC51362}] SEQUENCE 0
Connectionless ServiceNo
Guarantees DeliveryYes
Guarantees SequencingYes
Maximum Address Size20 bytes
Maximum Message Size62.50 KB (64,000 bytes)
Message OrientedYes
Minimum Address Size20 bytes
Pseudo Stream OrientedNo
Supports BroadcastingNo
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingNo

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{477541C7-5541-4C3A-990D-E8C70EC51362}] DATAGRAM 0
Connectionless ServiceYes
Guarantees DeliveryNo
Guarantees SequencingNo
Maximum Address Size20 bytes
Maximum Message Size62.50 KB (64,000 bytes)
Message OrientedYes
Minimum Address Size20 bytes
Pseudo Stream OrientedNo
Supports BroadcastingYes
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingNo

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{156AE0E3-3BA0-40C6-B85C-8A2938F8692C}] SEQUENCE 1
Connectionless ServiceNo
Guarantees DeliveryYes
Guarantees SequencingYes
Maximum Address Size20 bytes
Maximum Message Size62.50 KB (64,000 bytes)
Message OrientedYes
Minimum Address Size20 bytes
Pseudo Stream OrientedNo
Supports BroadcastingNo
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingNo

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{156AE0E3-3BA0-40C6-B85C-8A2938F8692C}] DATAGRAM 1
Connectionless ServiceYes
Guarantees DeliveryNo
Guarantees SequencingNo
Maximum Address Size20 bytes
Maximum Message Size62.50 KB (64,000 bytes)
Message OrientedYes
Minimum Address Size20 bytes
Pseudo Stream OrientedNo
Supports BroadcastingYes
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingNo

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{D828588B-32F9-40B5-BA53-BAF721915F6F}] SEQUENCE 2
Connectionless ServiceNo
Guarantees DeliveryYes
Guarantees SequencingYes
Maximum Address Size20 bytes
Maximum Message Size62.50 KB (64,000 bytes)
Message OrientedYes
Minimum Address Size20 bytes

Pseudo Stream OrientedNo
Supports BroadcastingNo
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingNo

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{D828588B-32F9-40B5-BA53-BAF721915F6F}] DATAGRAM 2
Connectionless ServiceYes
Guarantees DeliveryNo
Guarantees SequencingNo
Maximum Address Size20 bytes
Maximum Message Size62.50 KB (64,000 bytes)
Message OrientedYes
Minimum Address Size20 bytes
Pseudo Stream OrientedNo
Supports BroadcastingYes
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingNo

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{09755819-C064-4AAE-9B48-8F17985153AD}] SEPPACKET 3
Connectionless ServiceNo
Guarantees DeliveryYes
Guarantees SequencingYes
Maximum Address Size20 bytes
Maximum Message Size62.50 KB (64,000 bytes)
Message OrientedYes
Minimum Address Size20 bytes
Pseudo Stream OrientedNo
Supports BroadcastingNo
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingNo

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{09755819-C064-4AAE-9B48-8F17985153AD}] DATAGRAM 3
Connectionless ServiceYes
Guarantees DeliveryNo
Guarantees SequencingNo
Maximum Address Size20 bytes
Maximum Message Size62.50 KB (64,000 bytes)
Message OrientedYes
Minimum Address Size20 bytes
Pseudo Stream OrientedNo
Supports BroadcastingYes
Supports Connect DataNo
Supports Disconnect DataNo
Supports EncryptionNo
Supports Expedited DataNo
Supports Graceful ClosingNo
Supports Guaranteed BandwidthNo
Supports MulticastingNo

[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 IDACPI\PNP0501\1
Maximum Input Buffer Size0
Maximum Output Buffer SizeNo
Settable Baud RateYes
Settable Data BitsYes
Settable Flow ControlYes
Settable ParityYes
Settable Parity CheckYes
Settable Stop BitsYes
Settable RLSDYes
Supports RLSDYes
Supports 16 Bit ModeNo
Supports Special CharactersNo
Baud Rate9600
Bits/Byte8
Stop Bits1
Parity None
Busy No
Abort Read/Write on ErrorNo
Binary Mode EnabledYes
Continue Xmit on XOffNo
CTS Outflow ControlNo
Discard NULL BytesNo
DSR Outflow Control0
DSR Sensitivity0
DTR Flow Control TypeEnable
EOF Character0
Error Replace Character0
Error Replacement EnabledNo
Event Character0
Parity Check EnabledNo
RTS Flow Control TypeEnable
XOff Character19
XOffXmit Threshold512
XOn Character17
XOnXmit Threshold2048
XOnXOff InFlow Control0
XOnXOff OutFlow Control0
I/O Port0x000003F8-0x000003FF
IRQ ChannelIRQ 4
Driver c:\windows\system32\drivers\serial.sys (5.2.3790.1830 (srv03_spl_rtm.050324-1447), 64.00 KB (65,536 bytes), 12/13/2006 5:26 AM)
Name Communications Port (COM2)
Status OK

```

PNP Device IDACPI\PNP0501\2
Maximum Input Buffer Size0
Maximum Output Buffer SizeNo
Settable Baud RateYes
Settable Data BitsYes
Settable Flow ControlYes
Settable ParityYes
Settable Parity CheckYes
Settable Stop BitsYes
Settable RLSYes
Supports RLSYes
Supports 16 Bit ModeNo
Supports Special CharactersNo
Baud Rate9600
Bits/Byte8
Stop Bits1
Parity None
Busy No
Abort Read/Write on ErrorNo
Binary Mode EnabledYes
Continue Xmit on XOffNo
CTS Outflow ControlNo
Discard NULL BytesNo
DSR Outflow Control0
DSR Sensitivity0
DTR Flow Control TypeEnable
EOF Character0
Error Replace Character0
Error Replacement EnabledNo
Event Character0
Parity Check EnabledNo
RTS Flow Control TypeEnable
XOff Character19
XOffXmit Threshold512
XOn Character17
XOnXmit Threshold2048
XOnXOff InFlow Control0
XOnXOff OutFlow Control0
I/O Port0x000002F8-0x000002FF
IRQ ChannelIRQ 3
Driver c:\windows\system32\drivers\serial.sys (5.2.3790.1830
(srv03_sp1_rtm.050324-1447), 64.00 KB (65,536 bytes), 12/13/2006 5:26 AM)

```

[Parallel]

Item Value

[Storage]

[Drives]

```

Item Value
Drive C:
DescriptionLocal Fixed Disk
CompressedNo
File SystemNTFS
Size 67.72 GB (72,711,474,688 bytes)
Free Space62.12 GB (66,697,302,016 bytes)
Volume Name
Volume Serial NumberC0FB5961

```

```

Drive D:
DescriptionRemovable Disk

```

```

Drive E:
DescriptionCD-ROM Disc

```

```

Drive F:
DescriptionCD-ROM Disc

```

[Disks]

```

Item Value
DescriptionDisk drive
Manufacturer(Standard disk drives)
Model DELL PERC 5/i SCSI Disk Device
Bytes/Sector512
Media LoadedYes
Media TypeFixed hard disk
Partitions2
SCSI Bus1
SCSI Logical Unit0
SCSI Port1
SCSI Target ID0
Sectors/Track63
Size 67.75 GB (72,744,376,320 bytes)
Total Cylinders8,844
Total Sectors142,078,860
Total Tracks2,255,220
Tracks/Cylinder255
PartitionDisk #0, Partition #0
Partition Size31.35 MB (32,868,864 bytes)
Partition Starting Offset32,256 bytes
PartitionDisk #0, Partition #1
Partition Size67.72 GB (72,711,475,200 bytes)
Partition Starting Offset32,901,120 bytes

```

```

DescriptionDisk drive
Manufacturer(Standard disk drives)
Model Dell Virtual Floppy USB Device
Bytes/SectorNot Available
Media LoadedNo
Media TypeNot Available
PartitionsNot Available
SCSI BusNot Available
SCSI Logical UnitNot Available
SCSI PortNot Available
SCSI Target IDNot Available
Sectors/TrackNot Available
Size Not Available
Total CylindersNot Available
Total SectorsNot Available
Total TracksNot Available
Tracks/CylinderNot Available

```

[SCSI]

```

Item Value
Name DELL PERC 5/i Integrated RAID Controller
ManufacturerDELL
Status OK
PNP Device ID
PCI\VEN_1028&DEV_0015&SUBSYS_1F031028&REV_00\5&1E758DE3&0&700018
Memory Address0xD80F0000-0xD80FFFFF
Memory Address0xFC7E0000-0xFC7FFFFF
IRQ ChannelIRQ 78
Driver c:\windows\system32\drivers\percsas.sys (1.18.0.32 built by:
WinDDK, 18.00 KB (18,432 bytes), 12/13/2006 5:28 AM)

```

[IDE]

Item Value
 Name Intel(R) 631xESB/6321ESB Ultra ATA Storage Controller - 269E
 ManufacturerIntel
 Status OK
 PNP Device IDPCI\VEN_8086&DEV_269E&SUBSYS_01B21028&REV_09\3&61AAA01&0&F9
 I/O Port0x0000FC00-0x0000FC0F
 Driver c:\windows\system32\drivers\pciide.sys (5.2.3790.0
 (srv03_rtm.030324-2048), 5.50 KB (5,632 bytes), 12/13/2006 5:25 AM)

Name Primary IDE Channel
 Manufacturer(Standard IDE ATA/ATAPI controllers)
 Status OK
 PNP Device IDPCI\IDE\IDECHANNEL\4&2D51872&0&0
 I/O Port0x000001F0-0x000001F7
 I/O Port0x000003F6-0x000003F6
 IRQ ChannelIRQ 14
 Driver c:\windows\system32\drivers\ataapi.sys (5.2.3790.1830
 (srv03_spl_rtm.050324-1447), 93.50 KB (95,744 bytes), 12/13/2006 5:23 AM)

[Printing]

Name Driver Port NameServer Name

[Problem Devices]

Device PNP Device IDError Code

[USB]

Device PNP Device ID
 Intel(R) 631xESB/6321ESB USB Universal Host Controller - 2688
 PCI\VEN_8086&DEV_2688&SUBSYS_01B21028&REV_09\3&61AAA01&0&E8
 Intel(R) 631xESB/6321ESB USB Universal Host Controller - 2689
 PCI\VEN_8086&DEV_2689&SUBSYS_01B21028&REV_09\3&61AAA01&0&E9
 Intel(R) 631xESB/6321ESB USB Universal Host Controller - 268A
 PCI\VEN_8086&DEV_268A&SUBSYS_01B21028&REV_09\3&61AAA01&0&EA
 Intel(R) 631xESB/6321ESB USB Enhanced Host Controller - 268C
 PCI\VEN_8086&DEV_268C&SUBSYS_01B21028&REV_09\3&61AAA01&0&EF

[Software Environment]

[System Drivers]

Name	Description	FileType	Started	Start	Mode	State	Status	Error	Control
Accept	Pause	Accept	Stop						
abiosdisk	Abiosdisk	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Ignore	NoNo
acpi	Microsoft ACPI Driver	c:\windows\system32\drivers\acpi.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
acpiec	ACPIEC	c:\windows\system32\drivers\acpiec.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal	No
adpu160	adpu160	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
adpu320	adpu320	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
afcnt	afcnt	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
afd	AFD	c:\windows\system32\drivers\afd.sys	Kernel Driver	Yes	System Running	OK	Normal	No	Yes
aic78u2	aic78u2	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
aic78xx	aic78xx	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
aliide	AliIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
amdide	AmdIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
arc	arc	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
asynccmac	RAS Asynchronous Media Driver	c:\windows\system32\drivers\asynccmac.sys	Kernel Driver	No	Manual	Stopped	OK	Normal	No

atapi	Standard IDE/ESDI Hard Disk Controller	c:\windows\system32\drivers\atapi.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
atdisk	Atdisk	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Ignore	NoNo
ati2mtag	ati2mtag	c:\windows\system32\drivers\ati2mtag.sys	Kernel Driver	Yes	Manual	Running	OK	Ignore	No
atmarpc	ATM ARP Client Protocol	c:\windows\system32\drivers\atmarpc.sys	Kernel Driver	No	Manual	Stopped	OK	Normal	No
audstub	Audio Stub Driver	c:\windows\system32\drivers\audstub.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No
b06bdrv	Broadcom NetXtreme II VBDc	c:\windows\system32\drivers\bxvbdx.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
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
cd20xrnt	cd20xrnt	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
cdfs	Cdfs	c:\windows\system32\drivers\cdfs.sys	File System Driver	Yes	Disabled	Running	OK	Normal	No
cdrom	CD-ROM Driver	c:\windows\system32\drivers\cdrom.sys	Kernel Driver	Yes	System Running	OK	Normal	No	Yes
changer	Changer	Not Available	Kernel Driver	No	System	Stopped	OK	Ignore	NoNo
clusdisk	Cluster Disk Driver	c:\windows\system32\drivers\clusdisk.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal	No
cmdide	CmdIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
cpqarray	Cpqarray	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
cpqarry2	Cpqarry2	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
cpqfcalm	Cpqfcalm	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
crdisk	CRC Disk Filter Driver	c:\windows\system32\drivers\crdisk.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
dac960nt	dac960nt	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
dellcer	dellcer	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
dfsdriver	DfsDriver	c:\windows\system32\drivers\dfs.sys	File System Driver	Yes	Boot	Running	OK	Normal	No
disk	Disk Driver	c:\windows\system32\drivers\disk.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
dmboot	dmboot	c:\windows\system32\drivers\dmboot.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal	No
dmio	Logical Disk Manager Driver	c:\windows\system32\drivers\dmio.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
dmload	dmload	c:\windows\system32\drivers\dmload.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
dpti2o	dpti2o	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
elxstor	elxstor	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
fastfat	Fastfat	c:\windows\system32\drivers\fastfat.sys	File System Driver	No	Disabled	Stopped	OK	Normal	No
fdc	Floppy Disk Controller Driver	c:\windows\system32\drivers\fdc.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No
fips	Fips	c:\windows\system32\drivers\fips.sys	Kernel Driver	Yes	System Running	OK	Normal	No	Yes
flpydisk	Flpydisk	c:\windows\system32\drivers\flpydisk.sys	Kernel Driver	No	System	Stopped	OK	Ignore	No
fltmgr	FltMgr	c:\windows\system32\drivers\fltmgr.sys	File System Driver	Yes	Boot	Running	OK	Normal	No
ftdisk	Volume Manager Driver	c:\windows\system32\drivers\ftdisk.sys	Kernel Driver	Yes	Boot	Running	OK	Normal	No
gpc	Generic Packet Classifier	c:\windows\system32\drivers\msgpc.sys	Kernel Driver	Yes	Manual	Running	OK	Normal	No
hidusb	Microsoft HID Class Driver	c:\windows\system32\drivers\hidusb.sys	Kernel Driver	Yes	Manual	Running	OK	Ignore	No
hpciss	hpciss	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
hpn	hpn	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
hpt3xx	hpt3xx	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal	NoNo
http	HTTP	c:\windows\system32\drivers\http.sys	Kernel Driver	No	Manual	Stopped	OK	Normal	No

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i2omgmt i2omgmt Not AvailableKernel DriverNoSystemStoppedOK Normal NoNo
i2omp i2omp Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
i8042prt i8042prt c:\windows\system32\drivers\i8042prt.sysKernel DriverNo
System Stopped OK Ignore No No
iirsp iirsp Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
imapi CD-Burning Filter Driverc:\windows\system32\drivers\imapi.sys
Kernel DriverYesSystem Running OK Normal No Yes
intelideIntelIdeNot AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
intelppmIntel Processor Driverc:\windows\system32\drivers\intelppm.sys
Kernel DriverYesManual Running OK Normal No Yes
ip6fw IPv6 Windows Firewall Driverc:\windows\system32\drivers\ip6fw.sys
Kernel DriverNoManual Stopped OK Normal No No
ipfilterdriverIP Traffic Filter Driver
c:\windows\system32\drivers\ipfltdrv.sysKernel DriverNoManualStoppedOK
Normal No No
ipinip IP in IP Tunnel Driverc:\windows\system32\drivers\ipinip.sys
Kernel DriverNoManual Stopped OK Normal No No
ipnat IP Network Address Translator
c:\windows\system32\drivers\ipnat.sysKernel DriverNoManualStoppedOKNormal
No No
ipsec IPSEC driverc:\windows\system32\drivers\ipsec.sysKernel DriverYes
System Running OK Normal No Yes
ipsraidnipsraidnNot AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
irenum IR Enumerator Servicec:\windows\system32\drivers\irenum.sysKernel
Driver No Manual Stopped OK Normal No No
isapnp PnP ISA/EISA Bus Driverc:\windows\system32\drivers\isapnp.sys
Kernel DriverYesBoot Running OK CriticalNo Yes
kbdclassKeyboard Class Driverc:\windows\system32\drivers\kbdclass.sys
Kernel DriverYesSystem Running OK Normal No Yes
kbdhid Keyboard HID Driverc:\windows\system32\drivers\kbdhid.sysKernel
Driver Yes System Running OK Ignore No Yes
kseccd KSecDD c:\windows\system32\drivers\kseccd.sysKernel DriverYesBoot
Running OK Normal No Yes
l2nd Broadcom NetXtreme II BXNDC:\windows\system32\drivers\bxd52x.sys
Kernel DriverYesManual Running OK Normal No Yes
lp6nds35lp6nds35Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
lpkxdrvrlpkxdrvrc:\windows\system32\drivers\lpkxdrv.sysKernel DriverYes
Manual Running OK Normal No Yes
mmdd mmd c:\windows\system32\drivers\mmdd.sysKernel DriverYes
System Running OK Ignore No Yes
modem Modem c:\windows\system32\drivers\modem.sysKernel DriverNoManual
Stopped OK Ignore No No
mouclassMouse Class Driverc:\windows\system32\drivers\mouclass.sysKernel
Driver Yes System Running OK Normal No Yes
mouhid Mouse HID Driverc:\windows\system32\drivers\mouhid.sysKernel
Driver Yes Manual Running OK Ignore No Yes
mountmgrMount Point Managerc:\windows\system32\drivers\mountmgr.sysKernel
Driver Yes Boot Running OK Normal No Yes
mraid35xmraid35xNot AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
mrxdav WebDav Client Redirectorc:\windows\system32\drivers\mrxdav.sys
File System DriverNoManualStoppedOK Normal No No
mrxsmb MRXSMB c:\windows\system32\drivers\mrxsmb.sysFile System Driver
Yes System Running OK Normal No Yes
msfs Msfs c:\windows\system32\drivers\msfs.sysFile System DriverYes
System Running OK Normal No Yes
mssmbiosMicrosoft System Management BIOS Driver
c:\windows\system32\drivers\mssmbios.sysKernel DriverYesManualRunningOK
Normal No Yes
mup Mup c:\windows\system32\drivers\mup.sysFile System DriverYes
Boot Running OK Normal No Yes
ndis NDIS System Driverc:\windows\system32\drivers\ndis.sysKernel
Driver Yes Boot Running OK Normal No Yes
ndistapiRemote Access NDIS TAPI Driver
c:\windows\system32\drivers\ndistapi.sysKernel DriverYesManualRunningOK
Normal No Yes
ndisuioNDIS Usermode I/O Protocolc:\windows\system32\drivers\ndisuio.sys

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Kernel DriverNoManual Stopped OK Normal No No
ndiswan Remote Access NDIS WAN Driver
c:\windows\system32\drivers\ndiswan.sysKernel DriverYesManualRunningOK
Normal No Yes
ndproxy NDIS Proxyc:\windows\system32\drivers\ndproxy.sysKernel DriverYes
Manual Running OK Normal No Yes
netbios NetBIOS Interfacec:\windows\system32\drivers\netbios.sysFile
System DriverYesSystem Running OK Normal No Yes
netbt NetBios over Tcpipc:\windows\system32\drivers\netbt.sysKernel
Driver Yes System Running OK Normal No Yes
nfrd960 nfrd960 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
npfs Npfs c:\windows\system32\drivers\npfs.sysFile System DriverYes
System Running OK Normal No Yes
ntfs Ntfs c:\windows\system32\drivers\ntfs.sysFile System DriverYes
DisabledRunningOK Normal No Yes
null Null c:\windows\system32\drivers\null.sysKernel DriverYesSystem
Running OK Normal No Yes
parport Parport c:\windows\system32\drivers\parport.sysKernel DriverNo
Manual Stopped OK Ignore No No
partmgr Partition Managerc:\windows\system32\drivers\partmgr.sysKernel
Driver Yes Boot Running OK Normal No Yes
pci PCI Bus Driverc:\windows\system32\drivers\pci.sysKernel DriverYes
Boot Running OK CriticalNo Yes
pciide PCIIDE c:\windows\system32\drivers\pciide.sysKernel DriverYesBoot
Running OK Normal No Yes
pcmcia Pcmcia c:\windows\system32\drivers\pcmcia.sysKernel DriverNo
DisabledStoppedOK Normal No No
pdcomp PDCOMP Not AvailableKernel DriverNoManualStoppedOK Ignore NoNo
pdframe PDFRAME Not AvailableKernel DriverNoManualStoppedOK Ignore NoNo
pdreli PDRELI Not AvailableKernel DriverNoManualStoppedOK Ignore NoNo
pdrframePDFRFRAMENot AvailableKernel DriverNoManualStoppedOK Ignore NoNo
perc2 perc2 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
perc2hibperc2hibNot AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
percsas percsas c:\windows\system32\drivers\percsas.sysKernel DriverYes
Boot Running OK Normal No Yes
pptpminiportWAN Miniport (PPTP)c:\windows\system32\drivers\raspttp.sys
Kernel DriverYesManual Running OK Normal No Yes
ptilink Direct Parallel Link Driver
c:\windows\system32\drivers\ptilink.sysKernel DriverYesManualRunningOK
Normal No Yes
ql1080 ql1080 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
ql10wnt Ql10wnt Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
ql12160 ql12160 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
ql1240 ql1240 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
ql1280 ql1280 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
ql2100 ql2100 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
ql2200 ql2200 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
ql2300 ql2300 Not AvailableKernel DriverNoDisabledStoppedOKNormal NoNo
rasacd Remote Access Auto Connection Driver
c:\windows\system32\drivers\rasacd.sysKernel DriverYesSystemRunningOK
Normal No Yes
rasl2tp WAN Miniport (L2TP)c:\windows\system32\drivers\rasl2tp.sysKernel
Driver Yes Manual Running OK Normal No Yes
rasppoeRemote Access PPPoE Driver
c:\windows\system32\drivers\rasppoe.sysKernel DriverYesManualRunningOK
Normal No Yes
raspti Direct Parallelc:\windows\system32\drivers\raspti.sysKernel
Driver Yes Manual Running OK Normal No Yes
rbss Rbss c:\windows\system32\drivers\rbss.sysFile System DriverYes
System Running OK Normal No Yes
rdpcdd RDPCCD c:\windows\system32\drivers\rdpcdd.sysKernel DriverYes
System Running OK Ignore No Yes
rdpdr Terminal Server Device Redirector Driver
c:\windows\system32\drivers\rdpdr.sysKernel DriverYesManualRunningOK
Normal No Yes
rdpwd RDPWD c:\windows\system32\drivers\rdpwd.sysKernel DriverYes

```

```

Manual Running OK Ignore No Yes
redbook Digital CD Audio Playback Filter Driver
c:\windows\system32\drivers\redbook.sys Kernel Driver Yes System Running OK
Normal No Yes
secdrv Secdrv c:\windows\system32\drivers\secdrv.sys Kernel Driver No
Manual Stopped OK Normal No No
serenum Serenum Filter Driver c:\windows\system32\drivers\serenum.sys
Kernel Driver Yes Manual Running OK Normal No Yes
serial Serial port driver c:\windows\system32\drivers\serial.sys Kernel
Driver Yes System Running OK Ignore No Yes
sfloppy High-Capacity Floppy Disk Drive
c:\windows\system32\drivers\sfloppy.sys Kernel Driver No Manual Stopped OK
Normal No No
simbad Simbad Not Available Kernel Driver No Disabled Stopped OK Normal No No
srv Srv c:\windows\system32\drivers\srv.sys File System Driver Yes
Manual Running OK Normal No Yes
swenum Software Bus Driver c:\windows\system32\drivers\swenum.sys Kernel
Driver Yes Manual Running OK Normal No Yes
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
tbdriver Tbdriver c:\windows\system32\drivers\tbdriver.sys Kernel Driver Yes
Running OK Normal No Yes
tcpip TCP/IP Protocol Driver c:\windows\system32\drivers\tcpip.sys Kernel
Driver Yes System Running OK Normal No Yes
tdpipe TDPIPE c:\windows\system32\drivers\tdpipe.sys Kernel Driver No
Manual Stopped OK Ignore No No
tdtcp TDTCP c:\windows\system32\drivers\tdtcp.sys Kernel Driver Yes
Manual Running OK Ignore No Yes
termdd Terminal Device Driver c:\windows\system32\drivers\termdd.sys
Kernel Driver Yes System Running OK Normal No Yes
toside TosIde Not Available Kernel Driver No Disabled Stopped OK Normal No No
udfs Udfs c:\windows\system32\drivers\udfs.sys File System Driver No
Disabled Stopped OK Normal No No
ultra ultra Not Available Kernel Driver No Disabled Stopped OK Normal No No
update Microcode Update Driver c:\windows\system32\drivers\update.sys
Kernel Driver Yes Manual Running OK Normal No Yes
usbccgp Microsoft USB Generic Parent Driver
c:\windows\system32\drivers\usbccgp.sys Kernel Driver Yes Manual Running OK
Normal No Yes
usbehci Microsoft USB 2.0 Enhanced Host Controller Miniport Driver
c:\windows\system32\drivers\usbehci.sys Kernel Driver Yes Manual Running OK
Normal No Yes
usbhub Microsoft USB Standard Hub Driver
c:\windows\system32\drivers\usbhub.sys Kernel Driver Yes Manual Running OK
Normal No Yes
usbstor USB Mass Storage Driver c:\windows\system32\drivers\usbstor.sys
Kernel Driver Yes Manual Running OK Normal No Yes
usbuhci Microsoft USB Universal Host Controller Miniport Driver
c:\windows\system32\drivers\usbuhci.sys Kernel Driver Yes Manual Running OK
Normal No Yes
vgasave VGA Display Controller c:\windows\system32\drivers\vga.sys Kernel
Driver Yes System Running OK Ignore No Yes
viaide ViaIde Not Available Kernel Driver No Disabled Stopped OK Normal No No
volsnap Storage volumesc:\windows\system32\drivers\volsnap.sys Kernel
Driver Yes Boot Running OK Normal No Yes
wanarp Remote Access IP ARP Driver c:\windows\system32\drivers\wanarp.sys
Kernel Driver Yes Manual Running OK Normal No Yes
wdica WDICA Not Available Kernel Driver No Manual Stopped OK Ignore No No
wlbs Network Load Balancing c:\windows\system32\drivers\wlbs.sys Kernel
Driver No Manual Stopped OK Normal No No

```

[Signed Drivers]

```

Device Name Signed Device Class Driver Version Driver Date Manufacturer INF
Name Driver Name Device ID
Microsoft System Management BIOS Driver No SYSTEM5.2.3790.183010/1/2002
(Standard system devices) machine.inf Not Available ROOT\SYSTEM\0002
Microcode Update Device No SYSTEM5.2.3790.183010/1/2002 (Standard system
devices) machine.inf Not Available ROOT\SYSTEM\0001
Plug and Play Software Device Enumerator No SYSTEM5.2.3790.183010/1/2002
(Standard system devices) machine.inf Not Available ROOT\SYSTEM\0000
Terminal Server Mouse Driver No SYSTEM5.2.3790.183010/1/2002 (Standard
system devices) machine.inf Not Available ROOT\RDP\MOU\0000
Terminal Server Keyboard Driver No SYSTEM5.2.3790.183010/1/2002 (Standard
system devices) machine.inf Not Available ROOT\RDP\KBD\0000
Terminal Server Device Redirector No SYSTEM5.2.3790.183010/1/2002 (Standard
system devices) machine.inf Not Available ROOT\RDP\DR\0000
Direct Parallel No NET 5.2.3790.183010/1/2002 Microsoft netrasa.inf Not
Available ROOT\MS\PT\MINIPORT\0000
WAN Miniport (PPTP) No NET5.2.3790.183010/1/2002 Microsoft netrasa.inf Not
Available ROOT\MS\PP\TP\MINIPORT\0000
WAN Miniport (PPPOE) No NET5.2.3790.183010/1/2002 Microsoft netrasa.inf Not
Available ROOT\MS\PP\POE\MINIPORT\0000
WAN Miniport (IP) No NET5.2.3790.183010/1/2002 Microsoft netrasa.inf Not
Available ROOT\MS\ND\ISWANIP\0000
WAN Miniport (L2TP) No NET5.2.3790.183010/1/2002 Microsoft netrasa.inf Not
Available ROOT\MS\L2\TP\MINIPORT\0000
Video Codecs No MEDIA 5.2.3790.010/1/2002 (Standard system devices)
wave.inf Not Available ROOT\MEDIA\MS\MMVID
Legacy Video Capture Devices No MEDIA5.2.3790.010/1/2002 (Standard system
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NDIS System Driver Not Available LEGACYDRIVER Not Available Not Available Not

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AvailableNot AvailableNot AvailableROOT\LEGACY NDIS\0000
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machine.infNot AvailableROOT\FTDISK\0000
Logical Disk ManagerNoSYSTEMS 5.2.3790.183010/1/2002(Standard system
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CD-ROM DriveNo CDROM 5.2.3790.010/1/2002(Standard CD-ROM drives)
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DVD GCC4244 B101 \5&1F424344&0&0.0.0
Primary IDE ChannelNoHDC5.2.3790.183010/1/2002(Standard IDE ATA/ATAPI
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7.3.0.101011/18/2005IntelIoem4.infNot Available
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machine.infNot AvailableACPI\IPI0001\5
System boardNo SYSTEM 5.2.3790.183010/1/2002(Standard system devices)
machine.infNot AvailableACPI\PNP0C01\0
Communications PortNoPORTS5.2.3790.010/1/2002(Standard port types)
msports.infNot AvailableACPI\PNP0501\2
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System timerNo SYSTEM 5.2.3790.183010/1/2002(Standard system devices)
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Numeric data processorNoSYSTEM5.2.3790.183010/1/2002(Standard system
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Direct memory access controllerNoSYSTEM5.2.3790.183010/1/2002(Standard
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ISAPNP Read Data PortNoSYSTEM5.2.3790.183010/1/2002(Standard system
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Plug and Play MonitorNoMONITOR5.1.2001.0676/2001(Standard monitor types)
monitor.infNot AvailableDISPLAY\DEL0000\5&3A927806&0&10000080&12&0D
ATI ES1000No DISPLAY 8.19.4.012/6/2005ATI Technologies Inc.oem7.infNot
AvailablePCI\VEN 1002&DEV 515E&SUBSYS 01B21028&REV 02\4&2014205D&0&68F0
Intel(R) 82801 PCI Bridge - 244ENoSYSTEM7.0.0.10111/10/2005IntelIoem2.inf
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AvailableUSB\VID 04B4&PID 6560\5&7378904&0&5
Generic volumeNoVOLUME 5.2.3790.183010/1/2002Microsoftvolume.infNot
AvailableSTORAGE\REMOVABLEMEDIA\9&21CCBC9A&0&RM
Disk driveNo DISKDRIVES 5.2.3790.010/1/2002(Standard disk drives)disk.inf
Not Available
USBSTOR\DISK&VEN_DELL&PROD_VIRTUAL_FLOPPY&REV_123\8&50C599&0&1028__12345
6&0
USB Mass Storage DeviceNoUSB5.2.3790.010/1/2002Compatible USB storage
device usbstor.infNot Available
USB\VID 413C&PID 0001&MI 01\7&21A15278&0&0001
CD-ROM DriveNo CDROM 5.2.3790.010/1/2002(Standard CD-ROM drives)
cdrom.infNot Available
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device usbstor.infNot Available
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USB Composite DeviceNoUSB5.2.3790.183010/1/2002(Standard USB Host
Controller)usb.infNot AvailableUSB\VID 413C&PID 0001\1028__123456
HID-compliant mouseNoMOUSE5.2.3790.183010/1/2002Microsoftmouse.infNot
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USB Human Interface DeviceNoHIDCLASS5.2.3790.010/1/2002(Standard system
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USB\VID 413C&PID 0000&MI 01\7&30CC8B42&0&0001
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Generic USB HubNoUSB 5.2.3790.183010/1/2002(Generic USB Hub)usb.infNot
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USB Human Interface DeviceNoHIDCLASS5.2.3790.010/1/2002(Standard system devices)input.infNot Available
USB\VID_0D3D&PID_0001&MI_01\6&161B4CCF&0&0001
HID Keyboard DeviceNoKEYBOARD5.2.3790.010/1/2002(Standard keyboards)keyboard.infNot Available
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USB Human Interface DeviceNoHIDCLASS5.2.3790.010/1/2002(Standard system devices)input.infNot Available
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USB Composite DeviceNoUSB5.2.3790.183010/1/2002(Standard USB Host Controller)usb.infNot Available
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Broadcom BCM5708C NetXtreme II GigeNoSYSTEM2.6.17.04/21/2006Broadcom Corporationoem8.infNot Available
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Microsoft ACPI-Compliant SystemNoSYSTEM5.2.3790.010/1/2002Microsoft
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[Environment Variables]

VariableValue User Name
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Server\90\Tools\bin\;C:\Program Files\Microsoft SQL
Server\90\DTS\Binn\;C:\Program Files\Microsoft SQL
Server\90\Tools\Binn\VSShell\Common7\IDE\<SYSTEM>
windir %SystemRoot%\<SYSTEM>
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OS Windows NT<SYSTEM>
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PROCESSOR_LEVEL6<SYSTEM>
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<SYSTEM>
PROCESSOR_REVISION0f06<SYSTEM>
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PATHEXT .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH<SYSTEM>
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TMP %SystemRoot%\TEMP<SYSTEM>
TEMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\SYSTEM
TMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\SYSTEM
TEMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\LOCAL SERVICE
TMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\LOCAL SERVICE
TEMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\NETWORK SERVICE
TMP %USERPROFILE%\Local Settings\TempNT AUTHORITY\NETWORK SERVICE
TEMP %USERPROFILE%\Local Settings\TempSAMB-CLIENT1\Administrator
TMP %USERPROFILE%\Local Settings\TempSAMB-CLIENT1\Administrator

[Print Jobs]

DocumentSize Owner Notify Status Time SubmittedStart TimeUntil Time
Elapsed TimePages PrintedJob IDPriorityParametersDriverPrint Processor
Host Print QueueData TypeName

[Network Connections]

Local NameRemote NameTypeStatusUser Name

[Running Tasks]

Name	Path	Process ID	Priority	Min Working	SetMax Working	SetStart Time	Time
system	idle	process	Not Available	0	Not Available	Not Available	Not Available
system	Not Available	Not Available	Not Available	1413120	Not Available	Not Available	Available
smss.exe	Not Available	55211	204800	1413120	3/7/2007 2:24 PM	Not Available	Available
csrss.exe	Not Available	71213	Not Available	Not Available	3/7/2007 2:24 PM	Not Available	Available
winlogon.exe	c:\windows\system32\winlogon.exe	77213204800	14131203/7/2007 2:24 PM	5.2.3790.1830 (srv03_spl_rtm.050324-1447)	497.00 KB (508,928 bytes)	12/13/2006 5:27 AM	
services.exe	c:\windows\system32\services.exe	8169204800	14131203/7/2007 2:24 PM	5.2.3790.1830 (srv03_spl_rtm.050324-1447)	107.50 KB (110,080 bytes)	12/13/2006 5:26 AM	

bytes) 12/13/2006 5:26 AM
lsass.exe:c:\windows\system32\lsass.exe828920480014131203/7/2007 2:24 PM
5.2.3790.0 (srv03_rtm.030324-2048)13.00 KB (13,312 bytes)12/13/2006 5:25 AM
svchost.exe:c:\windows\system32\svchost.exe996820480014131203/7/2007 2:24 PM
5.2.3790.1830 (srv03_spl_rtm.050324-1447)14.00 KB (14,336 bytes)
12/13/2006 5:26 AM
svchost.exeNot Available11008 Not AvailableNot Available3/7/2007 2:24 PM
Not AvailableNot AvailableNot Available
svchost.exe:c:\windows\system32\svchost.exe1156820480014131203/7/2007 2:24 PM
5.2.3790.1830 (srv03_spl_rtm.050324-1447)14.00 KB (14,336 bytes)
12/13/2006 5:26 AM
svchost.exeNot Available15448 Not AvailableNot Available3/7/2007 2:24 PM
Not AvailableNot AvailableNot Available
explorer.exe:c:\windows\explorer.exe1884820480014131203/7/2007 2:24 PM
6.00.3790.1830 (srv03_spl_rtm.050324-1447)1.00 MB (1,050,624 bytes)12/13/2006 5:24 AM
svchost.exe:c:\windows\system32\svchost.exe240820480014131203/7/2007 2:24 PM
5.2.3790.1830 (srv03_spl_rtm.050324-1447)14.00 KB (14,336 bytes)
12/13/2006 5:26 AM
rhostsvr.exe:c:\rhost\rhostsvr.exe520820480014131203/7/2007 2:24 PMNot Available54.50 KB (55,808 bytes)12/13/2006 6:18 PM
wmiprvse.exeNot Available6728 Not AvailableNot Available3/7/2007 2:26 PM
Not AvailableNot AvailableNot Available
csrss.exeNot Available38413 Not AvailableNot Available3/7/2007 2:45 PM
Not AvailableNot AvailableNot Available
winlogon.exe:c:\windows\system32\winlogon.exe18441320480014131203/7/2007 2:45 PM
5.2.3790.1830 (srv03_spl_rtm.050324-1447)497.00 KB (508,928 bytes) 12/13/2006 5:27 AM
rdpclip.exe:c:\windows\system32\rdpclip.exe1624820480014131203/7/2007 2:45 PM
5.2.3790.1830 (srv03_spl_rtm.050324-1447)68.00 KB (69,632 bytes)
12/13/2006 1:52 PM
helpctr.exe:c:\windows\pchealth\helpctr\binaries\helpctr.exe3528204800
14131203/7/2007 2:46 PM5.2.3790.1830 (srv03_spl_rtm.050324-1447)778.00 KB (796,672 bytes)12/13/2006 1:53 PM
wmiprvse.exeNot Available9528 Not AvailableNot Available3/7/2007 2:46 PM
Not AvailableNot AvailableNot Available
helpsvc.exe:c:\windows\pchealth\helpctr\binaries\helpsvc.exe13568204800
14131203/7/2007 2:46 PM5.2.3790.1830 (srv03_spl_rtm.050324-1447)745.00 KB (762,880 bytes)12/13/2006 1:53 PM

[Loaded Modules]

Name	Version	Size	File Date	Manufacturer	Path
winlogon	5.2.3790.1830 (srv03_spl_rtm.050324-1447)	497.00 KB (508,928 bytes)	12/13/2006 5:27 AM	Microsoft Corporation	c:\windows\system32\winlogon.exe
ntdll	5.2.3790.1830 (srv03_spl_rtm.050324-1447)	748.50 KB (766,464 bytes)	12/13/2006 5:25 AM	Microsoft Corporation	c:\windows\system32\ntdll.dll
kernel32	5.2.3790.1830 (srv03_spl_rtm.050324-1447)	1,014.00 KB (1,038,336 bytes)	12/13/2006 5:24 AM	Microsoft Corporation	c:\windows\system32\kernel32.dll
advapi32	5.2.3790.1830 (srv03_spl_rtm.050324-1447)	605.50 KB (620,032 bytes)	12/13/2006 5:23 AM	Microsoft Corporation	c:\windows\system32\advapi32.dll
rpcrt4	5.2.3790.1830 (srv03_spl_rtm.050324-1447)	627.00 KB (642,048 bytes)	12/13/2006 5:26 AM	Microsoft Corporation	c:\windows\system32\rpcrt4.dll
crypt32	5.131.3790.1830 (srv03_spl_rtm.050324-1447)	582.00 KB (595,968 bytes)	12/13/2006 5:23 AM	Microsoft Corporation	c:\windows\system32\crypt32.dll
msasn1	5.2.3790.1830 (srv03_spl_rtm.050324-1447)	56.50 KB (57,856 bytes)	12/13/2006 5:25 AM	Microsoft Corporation	c:\windows\system32\msasn1.dll
msvcrt	7.0.3790.1830 (srv03_spl_rtm.050324-1447)	340.50 KB (348,672 bytes)	12/13/2006 5:25 AM	Microsoft Corporation	

c:\windows\system32\msvcrt.dll
user32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)574.50 KB (588,288 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\user32.dll
gdi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)273.00 KB (279,552 bytes) 12/13/2006 5:24 AMMicrosoft Corporation
c:\windows\system32\gdi32.dll
nddeapi 5.2.3790.0 (srv03_rtm.030324-2048)16.00 KB (16,384 bytes)12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\nddeapi.dll
profmap 5.2.3790.1830 (srv03_spl_rtm.050324-1447)22.50 KB (23,040 bytes) 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\profmap.dll
netapi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)341.50 KB (349,696 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\netapi32.dll
userenv 5.2.3790.1830 (srv03_spl_rtm.050324-1447)771.00 KB (789,504 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\userenv.dll
psapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)20.00 KB (20,480 bytes) 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\psapi.dll
regapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)55.00 KB (56,320 bytes) 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\regapi.dll
secur32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)64.00 KB (65,536 bytes) 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\secur32.dll
setupapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.03 MB (1,079,808 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\setupapi.dll
version 5.2.3790.1830 (srv03_spl_rtm.050324-1447)18.00 KB (18,432 bytes) 12/13/2006 5:27 AMMicrosoft Corporationc:\windows\system32\version.dll
winsta 5.2.3790.1830 (srv03_spl_rtm.050324-1447)54.50 KB (55,808 bytes) 12/13/2006 5:27 AMMicrosoft Corporationc:\windows\system32\winsta.dll
ws2_32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)82.00 KB (83,968 bytes) 12/13/2006 5:28 AMMicrosoft Corporationc:\windows\system32\ws2_32.dll
ws2help 5.2.3790.1830 (srv03_spl_rtm.050324-1447)19.50 KB (19,968 bytes) 12/13/2006 5:28 AMMicrosoft Corporationc:\windows\system32\ws2help.dll
msgina 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.16 MB (1,211,904 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\msgina.dll
shsvcs 6.00.3790.1830 (srv03_spl_rtm.050324-1447)131.50 KB (134,656 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\shsvcs.dll
shlwapi 6.00.3790.1830 (srv03_spl_rtm.050324-1447)313.50 KB (321,024 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\shlwapi.dll
sfc 5.2.3790.0 (srv03_rtm.030324-2048)4.50 KB (4,608 bytes)12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\sfc.dll
sfc_os 5.2.3790.1830 (srv03_spl_rtm.050324-1447)138.00 KB (141,312 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\sfc_os.dll
wintrust 5.131.3790.1830 (srv03_spl_rtm.050324-1447)162.00 KB (165,888 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\wintrust.dll
imagehlp 5.2.3790.1830 (srv03_spl_rtm.050324-1447)145.50 KB (148,992 bytes) 12/13/2006 5:24 AMMicrosoft Corporation
c:\windows\system32\imagehlp.dll
ole32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)1.19 MB (1,245,184 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\ole32.dll
comctl32 6.0 (srv03_spl_rtm.050324-1447)1.00 MB (1,051,136 bytes)12/13/2006 5:44 AMMicrosoft Corporation
c:\windows\winsxs\x86_microsoft.windows.common-controls_6595b64144ccf1df_6.0.3790.1830_x-ww_7ae38ccf\comctl32.dll
sxs 5.2.3790.1830 (srv03_spl_rtm.050324-1447)743.50 KB (761,344 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\sxs.dll
wincard 5.2.3790.0 (srv03_rtm.030324-2048)98.50 KB (100,864 bytes)12/13/2006 5:27 AMMicrosoft Corporationc:\windows\system32\wincard.dll

wtsapi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)19.00 KB (19,456 bytes) 12/13/2006 5:28 AMMicrosoft Corporationc:\windows\system32\wtsapi32.dll
winmm 5.2.3790.1830 (srv03_spl_rtm.050324-1447)172.50 KB (176,640 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\winmm.dll
shell32 6.00.3790.1830 (srv03_spl_rtm.050324-1447)7.99 MB (8,379,392 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\shell32.dll
rsaenh 5.2.3790.1830 (srv03_spl_rtm.050324-1447)183.98 KB (188,392 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\rsaenh.dll
wldap32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)174.50 KB (178,688 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\wldap32.dll
csddl 5.2.3790.1830 (srv03_spl_rtm.050324-1447)100.00 KB (102,400 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
c:\windows\system32\csddl.dll
dimefont 5.2.3790.1830 (srv03_spl_rtm.050324-1447)19.00 KB (19,456 bytes) 12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\dimefont.dll
wlnotify 5.2.3790.1830 (srv03_spl_rtm.050324-1447)94.50 KB (96,768 bytes) 12/13/2006 5:27 AMMicrosoft Corporationc:\windows\system32\wlnotify.dll
mpr 5.2.3790.0 (srv03_rtm.030324-2048)56.00 KB (57,344 bytes)12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\mpr.dll
oleaut32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)556.032 bytes)12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\oleaut32.dll
winspool 5.2.3790.1830 (srv03_spl_rtm.050324-1447)147.00 KB (150,528 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\winspool.drv
comctl32 5.82 (srv03_spl_rtm.050324-1447)585.00 KB (599,040 bytes)12/13/2006 5:44 AMMicrosoft Corporation
c:\windows\winsxs\x86_microsoft.windows.common-controls_6595b64144ccf1df_5.82.3790.1830_x-ww_1b6f474a\comctl32.dll
uxtheme 6.00.3790.1830 (srv03_spl_rtm.050324-1447)202.00 KB (206,848 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\uxtheme.dll
samlib 5.2.3790.1830 (srv03_spl_rtm.050324-1447)46.50 KB (47,616 bytes) 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\samlib.dll
clbcatq 2001.12.4720.1830 (srv03_spl_rtm.050324-1447)502.50 KB (514,560 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
c:\windows\system32\clbcatq.dll
comres 2001.12.4720.0 (srv03_rtm.030324-2048)778.00 KB (796,672 bytes) 12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\comres.dll
xpsp2res 5.2.3790.1830 (srv03_spl_rtm.050324-1447)2.76 MB (2,897,920 bytes) 12/13/2006 5:28 AMMicrosoft Corporation
c:\windows\system32\xpsp2res.dll
cscur 5.2.3790.1830 (srv03_spl_rtm.050324-1447)319.50 KB (327,168 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
c:\windows\system32\cscur.dll
ntmarta 5.2.3790.1830 (srv03_spl_rtm.050324-1447)120.50 KB (123,392 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\ntmarta.dll
scredir 5.2.3790.1830 (srv03_spl_rtm.050324-1447)28.00 KB (28,672 bytes) 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\scredir.dll
rdpsnd 5.2.3790.0 (srv03_rtm.030324-2048)18.00 KB (18,432 bytes)12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\rdpsnd.dll
services 5.2.3790.1830 (srv03_spl_rtm.050324-1447)107.50 KB (110,080 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\services.exe
ncobjapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)36.00 KB (36,864 bytes) 12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\ncobjapi.dll
msvcp60 6.05.2144.0388.00 KB (397,312 bytes)12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\msvcp60.dll
scserv 5.2.3790.1830 (srv03_spl_rtm.050324-1447)327.00 KB (334,848 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\scserv.dll
authz 5.2.3790.1830 (srv03_spl_rtm.050324-1447)66.50 KB (68,096 bytes)

12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\authz.dll
 umpnpgmr5.2.3790.1830 (srv03 spl rtm.050324-1447)126.50 KB (129,536 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
 c:\windows\system32\umpnpgmr.dll
 eventlog5.2.3790.1830 (srv03 spl rtm.050324-1447)67.50 KB (69,120 bytes)
 12/13/2006 5:24 AMMicrosoft Corporationc:\windows\system32\eventlog.dll
 lsass 5.2.3790.0 (srv03 rtm.030324-2048)13.00 KB (13,312 bytes)12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\lsass.exe
 lsasrv 5.2.3790.1830 (srv03 spl rtm.050324-1447)803.00 KB (822,272 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
 c:\windows\system32\lsasrv.dll
 ntdsapi 5.2.3790.1830 (srv03 spl rtm.050324-1447)71.00 KB (72,704 bytes)
 12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\ntdsapi.dll
 dnsapi 5.2.3790.1830 (srv03 spl rtm.050324-1447)153.50 KB (157,184 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
 c:\windows\system32\dnsapi.dll
 samsrv 5.2.3790.1830 (srv03 spl rtm.050324-1447)450.50 KB (461,312 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
 c:\windows\system32\samsrv.dll
 cryptdll5.2.3790.1830 (srv03 spl rtm.050324-1447)32.00 KB (32,768 bytes)
 12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\cryptdll.dll
 msprivs 5.2.3790.0 (srv03 rtm.030324-2048)46.50 KB (47,616 bytes)12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\msprivs.dll
 kerberos5.2.3790.1830 (srv03 spl rtm.050324-1447)340.50 KB (348,672 bytes) 12/13/2006 5:24 AMMicrosoft Corporation
 c:\windows\system32\kerberos.dll
 msvl 0 5.2.3790.1830 (srv03 spl rtm.050324-1447)141.00 KB (144,384 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
 c:\windows\system32\msvl_0.dll
 iphlapi5.2.3790.1830 (srv03 spl rtm.050324-1447)92.50 KB (94,720 bytes)
 12/13/2006 5:24 AMMicrosoft Corporationc:\windows\system32\iphlpapi.dll
 netlogon5.2.3790.1830 (srv03 spl rtm.050324-1447)409.50 KB (419,328 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
 c:\windows\system32\netlogon.dll
 w32time 5.2.3790.1830 (srv03 spl rtm.050324-1447)222.00 KB (227,328 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
 c:\windows\system32\w32time.dll
 schannel5.2.3790.1830 (srv03 spl rtm.050324-1447)141.00 KB (144,384 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
 c:\windows\system32\schannel.dll
 wdigest 5.2.3790.1830 (srv03 spl rtm.050324-1447)74.00 KB (75,776 bytes)
 12/13/2006 5:27 AMMicrosoft Corporationc:\windows\system32\wdigest.dll
 rassfm 5.2.3790.1830 (srv03 spl rtm.050324-1447)23.00 KB (23,552 bytes)
 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\rassfm.dll
 kdcsvc 5.2.3790.1830 (srv03 spl rtm.050324-1447)213.50 KB (218,624 bytes) 12/13/2006 5:24 AMMicrosoft Corporation
 c:\windows\system32\kdcsvc.dll
 ntdsa 5.2.3790.1830 (srv03 spl rtm.050324-1447)1.45 MB (1,516,032 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
 c:\windows\system32\ntdsa.dll
 esent 5.2.3790.1830 (srv03 spl rtm.050324-1447)1,022.50 KB (1,047,040 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
 c:\windows\system32\esent.dll
 ntdsatq 5.2.3790.1830 (srv03 spl rtm.050324-1447)29.50 KB (30,208 bytes)
 12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\ntdsatq.dll
 mssock 5.2.3790.1830 (srv03 spl rtm.050324-1447)250.50 KB (256,512 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
 c:\windows\system32\mssock.dll
 scecli 5.2.3790.1830 (srv03 spl rtm.050324-1447)186.50 KB (190,976 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
 c:\windows\system32\scecli.dll
 ws03res 5.2.3790.1830 (srv03 spl rtm.050324-1447)793.50 KB (812,544 bytes) 12/13/2006 5:28 AMMicrosoft Corporation
 c:\windows\system32\ws03res.dll
 pstorsvc5.2.3790.0 (srv03 rtm.030324-2048)24.00 KB (24,576 bytes)12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\pstorsvc.dll

psbase 5.2.3790.1830 (srv03 spl rtm.050324-1447)84.00 KB (86,016 bytes)
 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\psbase.dll
 hnetcfg 5.2.3790.1830 (srv03 spl rtm.050324-1447)343.50 KB (351,744 bytes) 12/13/2006 5:24 AMMicrosoft Corporation
 c:\windows\system32\hnetcfg.dll
 wshtcpip5.2.3790.0 (srv03 rtm.030324-2048)18.00 KB (18,432 bytes)12/13/2006 5:28 AMMicrosoft Corporationc:\windows\system32\wshtcpip.dll
 dssenh 5.2.3790.1830 (srv03 spl rtm.050324-1447)139.98 KB (143,336 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
 c:\windows\system32\dssenh.dll
 svchost 5.2.3790.1830 (srv03 spl rtm.050324-1447)14.00 KB (14,336 bytes)
 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\svchost.exe
 rpcss 5.2.3790.1830 (srv03 spl rtm.050324-1447)406.00 KB (415,744 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
 c:\windows\system32\rpcss.dll
 wkssvc 5.2.3790.1830 (srv03 spl rtm.050324-1447)130.00 KB (133,120 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
 c:\windows\system32\wkssvc.dll
 wiarpc 5.2.3790.1830 (srv03 spl rtm.050324-1447)32.50 KB (33,280 bytes)
 12/13/2006 5:27 AMMicrosoft Corporationc:\windows\system32\wiarpc.dll
 dmserver5.2.3790.1830 (srv03 spl rtm.050324-1447)25.50 KB (26,112 bytes)
 12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\dmserver.dll
 es 2001.12.4720.1830 (srv03 spl rtm.050324-1447)233.00 KB (238,592 bytes) 12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\es.dll
 srsvcs 5.2.3790.1830 (srv03 spl rtm.050324-1447)93.50 KB (95,744 bytes)
 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\srsvcs.dll
 seclogon5.2.3790.1830 (srv03 spl rtm.050324-1447)18.50 KB (18,944 bytes)
 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\seclogon.dll
 wmiisc 5.2.3790.1830 (srv03 spl rtm.050324-1447)140.00 KB (143,360 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
 c:\windows\system32\wbem\wmiisc.dll
 vssapi 5.2.3790.1830 (srv03 spl rtm.050324-1447)548.00 KB (561,152 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
 c:\windows\system32\vssapi.dll
 atl 3.05.228383.00 KB (84,992 bytes)12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\atl.dll
 comsvcs 2001.12.4720.1830 (srv03 spl rtm.050324-1447)1.19 MB (1,248,256 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
 c:\windows\system32\comsvcs.dll
 wbemcore5.2.3790.1830 (srv03 spl rtm.050324-1447)497.50 KB (509,440 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
 c:\windows\system32\wbem\wbemcore.dll
 esscli 5.2.3790.1830 (srv03 spl rtm.050324-1447)250.00 KB (256,000 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
 c:\windows\system32\wbem\esscli.dll
 wbemcomn5.2.3790.1830 (srv03 spl rtm.050324-1447)221.00 KB (226,304 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
 c:\windows\system32\wbem\wbemcomn.dll
 fastprox5.2.3790.1830 (srv03 spl rtm.050324-1447)471.00 KB (482,304 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
 c:\windows\system32\wbem\fastprox.dll
 wbemsvc 5.2.3790.0 (srv03 rtm.030324-2048)42.50 KB (43,520 bytes)12/13/2006 1:52 PMMicrosoft Corporationc:\windows\system32\wbem\wbemsvc.dll
 wmiutils5.2.3790.1830 (srv03 spl rtm.050324-1447)93.50 KB (95,744 bytes)
 12/13/2006 1:52 PMMicrosoft Corporation
 c:\windows\system32\wbem\wmiutils.dll
 repdrvfs5.2.3790.1830 (srv03 spl rtm.050324-1447)172.50 KB (176,640 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
 c:\windows\system32\wbem\repdrvfs.dll
 wmiiprds5.2.3790.1830 (srv03 spl rtm.050324-1447)404.00 KB (413,696 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
 c:\windows\system32\wbem\wmiiprds.dll
 wbemess 5.2.3790.1830 (srv03 spl rtm.050324-1447)271.50 KB (278,016 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
 c:\windows\system32\wbem\wbemess.dll
 sens 5.2.3790.1830 (srv03 spl rtm.050324-1447)36.50 KB (37,376 bytes)

12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\sens.dll
netman 5.2.3790.1830 (srv03_spl_rtm.050324-1447)258.50 KB (264,704 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\netman.dll
mprapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)89.00 KB (91,136 bytes)
12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\mprapi.dll
activeds5.2.3790.1830 (srv03_spl_rtm.050324-1447)194.00 KB (198,656 bytes) 12/13/2006 5:22 AMMicrosoft Corporation
c:\windows\system32\activeds.dll
adslrpc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)146.00 KB (149,504 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
c:\windows\system32\adslrpc.dll
credui 5.2.3790.1830 (srv03_spl_rtm.050324-1447)162.00 KB (165,888 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
c:\windows\system32\credui.dll
rtutils 5.2.3790.1830 (srv03_spl_rtm.050324-1447)34.50 KB (35,328 bytes) 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\rtutils.dll
netshell15.2.3790.1830 (srv03_spl_rtm.050324-1447)1.73 MB (1,812,992 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\netshell.dll
clusapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)60.00 KB (61,440 bytes) 12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\clusapi.dll
rasapi325.2.3790.1830 (srv03_spl_rtm.050324-1447)239.50 KB (245,248 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\rasapi32.dll
rasman 5.2.3790.1830 (srv03_spl_rtm.050324-1447)61.50 KB (62,976 bytes) 12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\rasman.dll
tapi32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)179.50 KB (183,808 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\tapi32.dll
wininet 6.00.3790.1830 (srv03_spl_rtm.050324-1447)646.00 KB (661,504 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\wininet.dll
wzscapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)41.00 KB (41,984 bytes) 3/24/2005 10:26 AMMicrosoft Corporationc:\windows\system32\wzscapi.dll
wzcsvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)364.50 KB (373,248 bytes) 3/24/2005 10:26 AMMicrosoft Corporation
c:\windows\system32\wzcsvc.dll
wmi 5.2.3790.0 (srv03_rtm.030324-2048)6.50 KB (6,656 bytes)12/13/2006 5:27 AMMicrosoft Corporationc:\windows\system32\wmi.dll
dhcpcsvc5.2.3790.1830 (srv03_spl_rtm.050324-1447)113.50 KB (116,224 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
c:\windows\system32\dhcpcsvc.dll
rasdlg 5.2.3790.1830 (srv03_spl_rtm.050324-1447)663.00 KB (678,912 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\rasdlg.dll
rasadhlp5.2.3790.1830 (srv03_spl_rtm.050324-1447)7.50 KB (7,680 bytes)12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\rasadhlp.dll
ncprov 5.2.3790.1830 (srv03_spl_rtm.050324-1447)46.50 KB (47,616 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
c:\windows\system32\wbem\ncprov.dll
netcfgx 5.2.3790.1830 (srv03_spl_rtm.050324-1447)763.00 KB (781,312 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\netcfgx.dll
winipsec5.2.3790.1830 (srv03_spl_rtm.050324-1447)35.50 KB (36,352 bytes) 12/13/2006 5:27 AMMicrosoft Corporationc:\windows\system32\winipsec.dll
pchsvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)39.00 KB (39,936 bytes) 12/13/2006 1:53 PMMicrosoft Corporation
c:\windows\system32\pchealth\helpctr\binaries\pchsvc.dll
wbemcons5.2.3790.1830 (srv03_spl_rtm.050324-1447)45.50 KB (46,592 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
c:\windows\system32\wbem\wbemcons.dll
explorer6.00.3790.1830 (srv03_spl_rtm.050324-1447)1.00 MB (1,050,624 bytes) 12/13/2006 5:24 AMMicrosoft Corporationc:\windows\explorer.exe
browseui6.00.3790.2643 (srv03_spl_gdr.060220-1550)1,012.50 KB (1,036,800 bytes) 12/13/2006 5:23 AMMicrosoft Corporation

c:\windows\system32\browseui.dll
shdocvw 6.00.3790.2643 (srv03_spl_gdr.060220-1550)1.44 MB (1,513,472 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\shdocvw.dll
cryptui 5.131.3790.1830 (srv03_spl_rtm.050324-1447)496.50 KB (508,416 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
c:\windows\system32\cryptui.dll
apphelp 5.2.3790.1830 (srv03_spl_rtm.050324-1447)146.50 KB (150,016 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
c:\windows\system32\apphelp.dll
themeui 6.00.3790.1830 (srv03_spl_rtm.050324-1447)377.50 KB (386,560 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\themeui.dll
msimg32 5.2.3790.0 (srv03_rtm.030324-2048)4.50 KB (4,608 bytes)12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\msimg32.dll
actxprxy6.00.3790.1830 (srv03_spl_rtm.050324-1447)96.50 KB (98,816 bytes) 12/13/2006 5:22 AMMicrosoft Corporationc:\windows\system32\actxprxy.dll
linkinfo5.2.3790.1830 (srv03_spl_rtm.050324-1447)19.00 KB (19,456 bytes) 12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\linkinfo.dll
ntshrui 6.00.3790.1830 (srv03_spl_rtm.050324-1447)140.00 KB (143,360 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\ntshrui.dll
urlmon 6.00.3790.2612 (srv03_spl_gdr.060106-1531)678.00 KB (694,272 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\urlmon.dll
webcheck6.00.3790.1830 (srv03_spl_rtm.050324-1447)272.50 KB (279,040 bytes) 12/13/2006 5:27 AMMicrosoft Corporation
c:\windows\system32\webcheck.dll
wsock32 5.2.3790.0 (srv03_rtm.030324-2048)22.00 KB (22,528 bytes)12/13/2006 5:28 AMMicrosoft Corporationc:\windows\system32\wsock32.dll
stobject5.2.3790.1830 (srv03_spl_rtm.050324-1447)120.50 KB (123,392 bytes) 12/13/2006 5:26 AMMicrosoft Corporation
c:\windows\system32\stobject.dll
batmeter6.00.3790.1830 (srv03_spl_rtm.050324-1447)31.50 KB (32,256 bytes) 12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\batmeter.dll
powrprof6.00.3790.1830 (srv03_spl_rtm.050324-1447)16.50 KB (16,896 bytes) 12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\powrprof.dll
drprov 5.2.3790.1830 (srv03_spl_rtm.050324-1447)14.00 KB (14,336 bytes) 12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\drprov.dll
ntlanman5.2.3790.1830 (srv03_spl_rtm.050324-1447)43.50 KB (44,544 bytes) 12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\ntlanman.dll
netui0 5.2.3790.0 (srv03_rtm.030324-2048)75.50 KB (77,312 bytes)12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\netui0.dll
netui1 5.2.3790.0 (srv03_rtm.030324-2048)184.00 KB (188,416 bytes)12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\netui1.dll
davclnt 5.2.3790.0 (srv03_rtm.030324-2048)23.50 KB (24,064 bytes)12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\davclnt.dll
browseui6.00.3790.0 (srv03_rtm.030324-2048)62.00 KB (63,488 bytes)12/13/2006 5:23 AMMicrosoft Corporationc:\windows\system32\browseui.dll
shdoclc 6.00.3790.0 (srv03_rtm.030324-2048)588.50 KB (602,624 bytes)12/13/2006 5:26 AMMicrosoft Corporationc:\windows\system32\shdoclc.dll
mstask 5.2.3790.1830 (srv03_spl_rtm.050324-1447)295.00 KB (302,080 bytes) 12/13/2006 1:53 PMMicrosoft Corporation
c:\windows\system32\mstask.dll
comdlg326.00.3790.1830 (srv03_spl_rtm.050324-1447)274.50 KB (281,088 bytes) 12/13/2006 5:23 AMMicrosoft Corporation
c:\windows\system32\comdlg32.dll
termsrv 5.2.3790.1830 (srv03_spl_rtm.050324-1447)239.00 KB (244,736 bytes) 12/13/2006 1:52 PMMicrosoft Corporation
c:\windows\system32\termsrv.dll
icaapi 5.2.3790.1830 (srv03_spl_rtm.050324-1447)12.50 KB (12,800 bytes) 12/13/2006 1:52 PMMicrosoft Corporationc:\windows\system32\icaapi.dll
mstlsapi5.2.3790.1830 (srv03_spl_rtm.050324-1447)116.00 KB (118,784 bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\mstlsapi.dll
rdpwsx 5.2.3790.1830 (srv03_spl_rtm.050324-1447)101.63 KB (104,072 bytes)

```

bytes) 12/13/2006 1:52 PMMicrosoft Corporation
c:\windows\system32\rdpwsx.dll
rhostsvrNot Available54.50 KB (55,808 bytes)12/13/2006 6:18 PMNot
Availablec:\rhost\rhostsvr.exe
rdpclip 5.2.3790.1830 (srv03_spl_rtm.050324-1447)68.00 KB (69,632 bytes)
12/13/2006 1:52 PMMicrosoft Corporationc:\windows\system32\rdpclip.exe
msacm32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)69.50 KB (71,168 bytes)
12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\msacm32.dll
helpctr 5.2.3790.1830 (srv03_spl_rtm.050324-1447)778.00 KB (796,672
bytes) 12/13/2006 1:53 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\helpctr.exe
hcappres5.2.3790.0 (srv03_rtm.030324-2048)6.50 KB (6,656 bytes)12/13/2006
1:53 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\hcappres.dll
itss 5.2.3790.1830 (srv03_spl_rtm.050324-1447)133.50 KB (136,704
bytes) 12/13/2006 5:24 AMMicrosoft Corporation
c:\windows\system32\itss.dll
msxml3 8.70.1104.01.06 MB (1,107,456 bytes)12/13/2006 5:25 AMMicrosoft
Corporationc:\windows\system32\msxml3.dll
pchshell5.2.3790.1830 (srv03_spl_rtm.050324-1447)104.50 KB (107,008
bytes) 12/13/2006 1:53 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\pchshell.dll
mlang 6.00.3790.1830 (srv03_spl_rtm.050324-1447)577.50 KB (591,360
bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\mlang.dll
mshtml 6.00.3790.2643 (srv03_spl_gdr.060220-1550)3.00 MB (3,146,752
bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\mshtml.dll
msls31 3.10.349.0142.00 KB (145,408 bytes)12/13/2006 5:25 AMMicrosoft
Corporationc:\windows\system32\msls31.dll
msimtf 5.2.3790.1830 (srv03_spl_rtm.050324-1447)156.00 KB (159,744
bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\msimtf.dll
msctf 5.2.3790.1830 (srv03_spl_rtm.050324-1447)311.00 KB (318,464
bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\msctf.dll
jscript 5.6.0.8827448.00 KB (458,752 bytes)12/13/2006 5:24 AMMicrosoft
Corporationc:\windows\system32\jscript.dll
imm32 5.2.3790.1830 (srv03_spl_rtm.050324-1447)108.00 KB (110,592
bytes) 12/13/2006 5:24 AMMicrosoft Corporation
c:\windows\system32\imm32.dll
mshtml6.00.3790.1830 (srv03_spl_rtm.050324-1447)454.50 KB (465,408
bytes) 12/13/2006 5:25 AMMicrosoft Corporation
c:\windows\system32\mshtml6.dll
vbscript5.6.0.8827392.00 KB (401,408 bytes)12/13/2006 5:27 AMMicrosoft
Corporationc:\windows\system32\vbscript.dll
msinfo 5.2.3790.1830 (srv03_spl_rtm.050324-1447)376.00 KB (385,024
bytes) 12/13/2006 1:53 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo.dll
mfc42u 6.06.8063.01.11 MB (1,163,776 bytes)12/13/2006 5:25 AMMicrosoft
Corporationc:\windows\system32\mfc42u.dll
odbc32 3.526.1830.0 (srv03_spl_rtm.050324-1447)240.00 KB (245,760 bytes)
12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\odbc32.dll
odbcint 3.526.1830.0 (srv03_spl_rtm.050324-1447)92.00 KB (94,208 bytes)
12/13/2006 5:25 AMMicrosoft Corporationc:\windows\system32\odbcint.dll
riched325.2.3790.0 (srv03_rtm.030324-2048)3.50 KB (3,584 bytes)12/13/2006
5:26 AMMicrosoft Corporationc:\windows\system32\riched32.dll
riched205.31.23.1224439.00 KB (449,536 bytes)12/13/2006 5:26 AMMicrosoft
Corporationc:\windows\system32\riched20.dll
wbemprox5.2.3790.1830 (srv03_spl_rtm.050324-1447)20.50 KB (20,992 bytes)
12/13/2006 1:52 PMMicrosoft Corporation
c:\windows\system32\wbem\wbemprox.dll
helpsvc 5.2.3790.1830 (srv03_spl_rtm.050324-1447)745.00 KB (762,880
bytes) 12/13/2006 1:53 PMMicrosoft Corporation
c:\windows\pchealth\helpctr\binaries\helpsvc.exe

```

[Services]

```

Display NameNameState Start ModeService TypePathError ControlStart Name
Tag ID
Application Experience Lookup ServiceAeLookupSvcStoppedManualShare
Process c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Alerter Alerter Stopped DisabledShare Process
c:\windows\system32\svchost.exe -k localservecNormalNT
AUTHORITY\LocalService0
Application Layer Gateway ServiceALGStoppedManualOwn Process
c:\windows\system32\alg.exeNormalNT AUTHORITY\LocalService0
Application ManagementAppMgmtStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
ASP.NET State Serviceaspnet_stateStoppedManualOwn Process
c:\windows\microsoft.net\framework\v2.0.50727\aspnet_state.exeNormalNT
AUTHORITY\NetworkService0
Windows AudioAudioSrvStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Background Intelligent Transfer ServiceBITSStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Computer BrowserBrowserStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Indexing ServiceCisvcStoppedDisabledShare Process
c:\windows\system32\cisvc.exeNormalLocalSystem0
ClipBookClipSrvStopped DisabledOwn Processc:\windows\system32\clipsrv.exe
Normal LocalSystem0
.NET Runtime Optimization Service v2.0.50727 X86
clr_optimization_v2.0.50727_32StoppedManualOwn Process
c:\windows\microsoft.net\framework\v2.0.50727\mscorsvw.exeIgnore
LocalSystem0
COM+ System ApplicationCOMSysAppStoppedManualOwn Process
c:\windows\system32\dllhost.exe /processid:{02d4b3f1-fd88-11d1-960d-
00805fc79235}NormalLocalSystem0
Cryptographic ServicesCryptSvcStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
DCOM Server Process LauncherDcomLaunchRunningAutoShare Process
c:\windows\system32\svchost.exe -k dcomlaunchNormalLocalSystem0
Distributed File SystemDfsStoppedManualOwn Process
c:\windows\system32\dfssvc.exeNormalLocalSystem0
DHCP ClientDhcpStopped DisabledShare Process
c:\windows\system32\svchost.exe -k networkserviceNormalNT
AUTHORITY\NetworkService0
Logical Disk Manager Administrative ServicedmadmadminStoppedManualShare
Process c:\windows\system32\dmadmin.exe /comNormalLocalSystem0
Logical Disk ManagerdmserverRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
DNS ClientDnscacheStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k networkserviceNormalNT
AUTHORITY\NetworkService0
Error Reporting ServiceERSvcStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k winerrIgnoreLocalSystem0
Event LogEventlogRunningAuto Share Process
c:\windows\system32\services.exeNormalLocalSystem0
COM+ Event SystemEventSystemRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Help and SupporthelpsvcRunningManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
HID Input ServiceHidServStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
HTTP SSLHTTPFilterStoppedManualShare Processc:\windows\system32\lsass.exe
Normal LocalSystem0
IIS Admin ServiceIISADMINStoppedManualShare Process
c:\windows\system32\inet\inetinfo.exeNormalLocalSystem0
IMAPI CD-Burning COM ServiceImapiServiceStoppedDisabledOwn Process
c:\windows\system32\imapi.exeNormalLocalSystem0
InterSite MessagingIsmServStoppedDisabledOwn Process

```

c:\windows\system32\ismserv.exeNormalLocalSystem0
Kerberos Key Distribution CenterkdcStoppedDisabledShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Server lanmanserverRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
WorkstationlanmanworkstationRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
License LoggingLicenseServiceStoppedDisabledOwn Process
c:\windows\system32\llssrv.exeNormalNT AUTHORITY\NetworkService0
TCP/IP NetBIOS HelperLmHostsStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k localserviceNormalNT AUTHORITY\LocalService0
MessengerMessengerStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
NetMeeting Remote Desktop SharingmnmrvcStoppedDisabledOwn Process
c:\windows\system32\mnmrvc.exeNormalLocalSystem0
Distributed Transaction CoordinatorMSDTCStoppedManualOwn Process
c:\windows\system32\msdtc.exeNormalNT AUTHORITY\NetworkService0
Windows InstallerMSIServerStoppedManualShare Process
c:\windows\system32\msiexec.exe /vNormalLocalSystem0
Network DDENetDDEStoppedDisabledShare Process
c:\windows\system32\netdde.exeNormalLocalSystem0
Network DDE DSDMNetDDEsdmStoppedDisabledShare Process
c:\windows\system32\netdde.exeNormalLocalSystem0
Net LogonNetLogonStoppedManualShare Processc:\windows\system32\lsass.exe Normal LocalSystem0
Network ConnectionsNetmanRunningManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Network Location Awareness (NLA)NlaRunningManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
File ReplicationNtFrsStoppedManualOwn Process
c:\windows\system32\ntfrs.exeIgnoreLocalSystem0
NT LM Security Support ProviderNtLmSspStoppedManualShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Removable StorageNtmsSvcStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Plug and PlayPlugPlayRunningAutoShare Process
c:\windows\system32\services.exeNormalLocalSystem0
IPSEC ServicesPolicyAgentStoppedDisabledShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Protected StorageProtectedStorageRunningAutoShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Remote Access Auto Connection ManagerRasAutoStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Remote Access Connection ManagerRasManStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Remote Desktop Help Session ManagerRDSessMgrStoppedManualOwn Process
c:\windows\system32\sessmgr.exeNormalLocalSystem0
Routing and Remote AccessRemoteAccessStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Remote RegistryRemoteRegistryRunningAutoShare Process
c:\windows\system32\svchost.exe -k regsvcNormalNT AUTHORITY\LocalService0
Remote Procedure Call (RPC) LocatorRpcLocatorStoppedManualOwn Process
c:\windows\system32\locator.exeNormalNT AUTHORITY\NetworkService0
Remote Procedure Call (RPC)RpcSsRunningAutoShare Process
c:\windows\system32\svchost.exe -k rpcssNormalNT AUTHORITY\NetworkService0
Resultant Set of Policy ProviderRSOPProvStoppedManualShare Process
c:\windows\system32\rsopprov.exeNormalLocalSystem0
Special Administration Console HelpersacsvrStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Security Accounts ManagerSamSsRunningAutoShare Process
c:\windows\system32\lsass.exeNormalLocalSystem0
Smart CardSCardSvrStoppedDisabledShare Process
c:\windows\system32\scardsvr.exeIgnoreNT AUTHORITY\LocalService0
Task SchedulerScheduleStoppedDisabledShare Process

c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Secondary LogonseclogonRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsIgnoreLocalSystem0
System Event NotificationSENSRunningManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Windows Firewall/Internet Connection Sharing (ICS)SharedAccessStopped DisabledShare Processc:\windows\system32\svchost.exe -k netsvcsNormal LocalSystem0
Shell Hardware DetectionShellHWDetectionRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsIgnoreLocalSystem0
Print SpoolerSpoolerStoppedManualOwn Process
c:\windows\system32\spoolsv.exeNormalLocalSystem0
Windows Image Acquisition (WIA)stisvcStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k imgsvcNormalNT AUTHORITY\LocalService0
Microsoft Software Shadow Copy ProviderswprvStoppedManualOwn Process
c:\windows\system32\svchost.exe -k swprvNormalLocalSystem0
Performance Logs and AlertsSysmonLogStoppedManualOwn Process
c:\windows\system32\smlogsvc.exeNormalNT Authority\NetworkService0
TelephonyTapiSrvStoppedManual Share Process
c:\windows\system32\svchost.exe -k tapisrvNormalLocalSystem0
Terminal ServicesTermServiceRunningManualShare Process
c:\windows\system32\svchost.exe -k termsvcsNormalLocalSystem0
Themes Themes Stopped DisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Telnet TlntSvr Stopped DisabledOwn Processc:\windows\system32\tlntsvr.exe Normal NT AUTHORITY\LocalService0
Distributed Link Tracking ServerTrkSvrStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Distributed Link Tracking ClientTrkWksStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Terminal Services Session DirectoryTssdisStoppedDisabledOwn Process
c:\windows\system32\tssdis.exeNormalLocalSystem0
Windows User Mode Driver FrameworkUMWdfStoppedManualOwn Process
c:\windows\system32\wdfmgr.exeNormalNT AUTHORITY\LocalService0
Uninterruptible Power SupplyUPSStoppedDisabledOwn Process
c:\windows\system32\ups.exeNormalNT AUTHORITY\LocalService0
Virtual Disk ServicevdsStoppedManualOwn Process
c:\windows\system32\vds.exeNormalLocalSystem0
Volume Shadow CopyVSSStoppedManualOwn Process
c:\windows\system32\vssvc.exeNormalLocalSystem0
Windows TimeW32TimeStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k localserviceNormalNT AUTHORITY\LocalService0
World Wide Web Publishing ServiceW3SVCStoppedManualShare Process
c:\windows\system32\svchost.exe -k iissvcsNormalLocalSystem0
WebClientWebClientStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k localserviceNormalNT AUTHORITY\LocalService0
WinHTTP Web Proxy Auto-Discovery ServiceWinHttpAutoProxySvcStoppedManual Share Processc:\windows\system32\svchost.exe -k localserviceNormalNT AUTHORITY\LocalService0
Windows Management InstrumentationwinmgmtRunningAutoShare Process
c:\windows\system32\svchost.exe -k netsvcsIgnoreLocalSystem0
Portable Media Serial Number ServiceWmdmPmsNSStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Windows Management Instrumentation Driver ExtensionsWmiStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
WMI Performance AdapterWmiApSrvStoppedManualOwn Process
c:\windows\system32\wbem\wmiapsrv.exeNormalLocalSystem0
Automatic UpdateswuauuserStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Wireless ConfigurationWZCSVCStoppedDisabledShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0
Network Provisioning ServicexmlprovStoppedManualShare Process
c:\windows\system32\svchost.exe -k netsvcsNormalLocalSystem0

[Program Groups]

```

Group NameName User Name
AccessoriesDefault User:AccessoriesDefault User
Accessories\AccessibilityDefault User:Accessories\AccessibilityDefault
User
Accessories\EntertainmentDefault User:Accessories\EntertainmentDefault
User
StartupDefault User:StartupDefault User
AccessoriesAll Users:AccessoriesAll Users
Accessories\AccessibilityAll Users:Accessories\AccessibilityAll Users
Accessories\CommunicationsAll Users:Accessories\CommunicationsAll Users
Accessories\EntertainmentAll Users:Accessories\EntertainmentAll Users
Accessories\System ToolsAll Users:Accessories\System ToolsAll Users
Administrative ToolsAll Users:Administrative ToolsAll Users
Microsoft SQL Server 2005All Users:Microsoft SQL Server 2005All Users
Microsoft SQL Server 2005\Analysis ServicesAll Users:Microsoft SQL Server
2005\Analysis ServicesAll Users
Microsoft SQL Server 2005\Configuration ToolsAll Users:Microsoft SQL
Server 2005\Configuration ToolsAll Users
Microsoft SQL Server 2005\Performance ToolsAll Users:Microsoft SQL Server
2005\Performance ToolsAll Users
StartupAll Users:StartupAll Users
AccessoriesNT AUTHORITY\SYSTEM:AccessoriesNT AUTHORITY\SYSTEM
Accessories\AccessibilityNT AUTHORITY\SYSTEM:Accessories\AccessibilityNT
AUTHORITY\SYSTEM
Accessories\EntertainmentNT AUTHORITY\SYSTEM:Accessories\EntertainmentNT
AUTHORITY\SYSTEM
Startup NT AUTHORITY\SYSTEM:StartupNT AUTHORITY\SYSTEM
AccessoriesSAMM-CLIENT1\Administrator:AccessoriesSAMM-
CLIENT1\Administrator
Accessories\AccessibilitySAMM-
CLIENT1\Administrator:Accessories\AccessibilitySAMM-CLIENT1\Administrator
Accessories\EntertainmentSAMM-
CLIENT1\Administrator:Accessories\EntertainmentSAMM-CLIENT1\Administrator
Administrative ToolsSAMM-CLIENT1\Administrator:Administrative ToolsSAMM-
CLIENT1\Administrator
Startup SAMM-CLIENT1\Administrator:StartupSAMM-CLIENT1\Administrator

```

[Startup Programs]

```

Program Command User NameLocation
desktop desktop.iniNT AUTHORITY\SYSTEMStartup
desktop desktop.iniSAMM-CLIENT1\AdministratorStartup
rhost rhost.lnkSAMM-CLIENT1\AdministratorStartup
desktop desktop.ini.DEFAULTTStartup
desktop desktop.iniAll UsersCommon Startup
KernelFaultCheck\systemroot%\system32\dumprep 0 -kAll Users
HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run

```

[OLE Registration]

```

Object Local Server
Sound (OLE2)sndrec32.exe
Media Clipmplay32.exe
Video Clipmplay32.exe /avi
MIDI Sequenceplay32.exe /mid
Sound Not Available
Media ClipNot Available
WordPad Document"%programfiles%\windows nt\accessories\wordpad.exe"
Windows Media Services DRM Storage objectNot Available
Bitmap Imagemsaint.exe

```

[Windows Error Reporting]

```

Time Type Details

```

[Internet Settings]

[Internet Explorer]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Version 6.0.3790.1830
Build 63790.1830
Application PathC:\Program Files\Internet Explorer
LanguageEnglish (United States)
Active PrinterNot Available

```

```

Cipher Strength128-bit
Content AdvisorDisabled
IEAK InstallNo

```

[File Versions]

File	Version	Size	Date	Path	Company
actxprxy.dll	6.0.3790.183097	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
advpack.dll	6.0.3790.183098	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
asctrls.ocx	6.0.3790.090	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
browseic.dll	6.0.3790.062	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
browseui.dll	6.0.3790.26431,013	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
cdfview.dll	6.0.3790.1830149	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
comctl32.dll	5.82.3790.1830585	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
dxtrans.dll	6.3.3790.1830205	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
dxtmsft.dll	6.3.3790.1830355	KB4/3/2006	11:00:00	PMC:\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	6.0.3790.1830324	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
iepeers.dll	6.0.3790.2625248	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
iesetup.dll	6.0.3790.183061	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
ieunit.inf	Not Available	24 KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Not Available
ieupdate.exe	6.0.3790.183092	KB4/3/2006	11:00:00	PMC:\Program	Files\Internet ExplorerMicrosoft Corporation
imgutil.dll	6.0.3790.183038	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
inetcp1.cpl	6.0.3790.1830358	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
inetplc.dll	6.0.3790.0109	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
inseng.dll	6.0.3790.183094	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation
mlang.dll	6.0.3790.1830578	KB4/3/2006	11:00:00	PMC:\WINDOWS\system32	Microsoft Corporation

```

msencode.dll2002.10.4.0112 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
????v??
mshta.exe6.0.3790.183030 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
mshtml.dll6.0.3790.26433,073 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
mshtml.tlb6.0.3790.18301,320 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
mshtml.dll6.0.3790.1830455 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
mshtml.dll6.0.3790.183056 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
msident.dll6.0.3790.183048 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
msidntld.dll6.0.3790.015 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
msieftp.dll6.0.3790.1830244 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
msrating.dll6.0.3790.1830144 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
mstime.dll6.0.3790.1830523 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
occache.dll6.0.3790.183094 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
proctexe.ocx6.3.3790.183083 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Intel Corporation
sendmail.dll6.0.3790.183056 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
shdoclc.dll6.0.3790.0589 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
shdocvw.dll6.0.3790.26431,478 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
shfolder.dll6.0.3790.183025 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
shlwapi.dll6.0.3790.1830314 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
tdc.ocx1.3.0.313058 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32Microsoft
Corporation
url.dll6.0.3790.183037 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
urlmon.dll6.0.3790.2612678 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
webcheck.dll6.0.3790.1830273 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation
wininet.dll6.0.3790.1830646 KB4/3/2006 11:00:00 PMC:\WINDOWS\system32
Microsoft Corporation

```

[Connectivity]

```

Item Value
Connection PreferenceNever dial

```

LAN Settings

```

AutoConfigProxywininet.dll
AutoProxyDetectModeDisabled
AutoConfigURL
Proxy Disabled
ProxyServer
ProxyOverride

```

[Cache]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Page Refresh TypeAutomatic
Temporary Internet Files FolderC:\Documents and
Settings\Administrator\Local Settings\Temporary Internet Files
Total Disk SpaceNot Available
Available Disk SpaceNot Available
Maximum Cache SizeNot Available
Available Cache SizeNot Available

```

[List of Objects]

```

Program FileStatusCodeBase
No cached object information available

```

[Content]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Content AdvisorDisabled

```

[Personal Certificates]

```

Issued ToIssued ByValiditySignature Algorithm
No personal certificate information available

```

[Other People Certificates]

```

Issued ToIssued ByValiditySignature Algorithm
No other people certificate information available

```

[Publishers]

```

Name
No publisher information available

```

[Security]

```

Zone Security Level
My ComputerCustom
Local intranetCustom
Trusted sitesLow
InternetMedium
Restricted sitesCustom

```

Windows 2003 IP Configuration Information

(Common to 6 clients except for Host Name, Physical Address, and IP Address)

Swcfg.ver

Windows IP Configuration

```

Host Name . . . . . : samm-client1

Primary Dns Suffix . . . . . :

Node Type . . . . . : Unknown

IP Routing Enabled. . . . . : No

WINS Proxy Enabled. . . . . : No

Ethernet adapter Admin:

    Connection-specific DNS Suffix  . :

    Description . . . . . : Broadcom BCM5708C NetXtreme II GigE
(NDIS VBD Client)

    Physical Address. . . . . : 00-18-8B-47-4B-1B

    DHCP Enabled. . . . . : No

    IP Address. . . . . : 192.168.91.151

    Subnet Mask . . . . . : 255.255.255.0

    IP Address. . . . . : 192.168.90.1

    Subnet Mask . . . . . : 255.255.255.0

    Default Gateway . . . . . :

Ethernet adapter RTE:

    Connection-specific DNS Suffix  . :

    Description . . . . . : Broadcom BCM5708C NetXtreme II GigE
(NDIS VBD Client) #2

    Physical Address. . . . . : 00-18-8B-47-4B-1D

    DHCP Enabled. . . . . : No

```

```

IP Address. . . . . : 192.168.1.1

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :

Volume in drive C has no label.
Volume Serial Number is C0FB-5961

Directory of C:\inetpub\wwwroot

09/23/2005  09:56 AM                90,112 tpcc.dll
             1 File(s)                90,112 bytes
             0 Dir(s) 66,687,154,688 bytes free

Volume in drive C has no label.
Volume Serial Number is C0FB-5961

Directory of C:\inetpub\wwwroot

09/23/2005  09:55 AM                94,208 tpcc_com_all.dll
             1 File(s)                94,208 bytes
             0 Dir(s) 66,687,154,176 bytes free

Volume in drive C has no label.
Volume Serial Number is C0FB-5961

Directory of C:\inetpub\wwwroot

09/23/2005  09:55 AM                24,576 tpcc_com_ps.dll
             1 File(s)                24,576 bytes
             0 Dir(s) 66,687,154,176 bytes free

```

Component Services Configuration

Complus.txt

```

Component Services Configuration

COM+ Component TPCC.AllTxns Settings:
  Transactions not supported
  Enable object pooling
  Minimum pool size 225
  Maximum pool size 225
  Creation timeout 120,000
  Enable object construction
  Enable just in time activation
  Concurrency required

```


Internet Information Server Registry Parameters

System_Currentcontrolset_Services_HTTP.txt

```
\registry\machine\system\currentcontrolset\services\HTTP\Parameters
DisableServerHeader = REG_DWORD 0x00000001
MaxConnections = REG_DWORD 0x0001ffff
SslBindingInfo
Synchronize
UrlAclInfo
```

System_Currentcontrolset_Services_Inetinfo.txt

```
\registry\machine\system\currentcontrolset\services\inetinfo
Parameters
ListenBackLog = REG_DWORD 0x00000050
BandwidthLevel = REG_DWORD 0xffffffff
ThreadTimeout = REG_DWORD 0x00015180
DisableMemoryCache = REG_DWORD 0x00000001
MemoryCacheSize = REG_DWORD 0x00000000
PoolThreadLimit = REG_DWORD 0x000000ff
ObjectCacheTTL = REG_DWORD 0xffffffff
MaxConnections = REG_DWORD 0x0001ffff
Performance
Library = infoctrs.dll
Open = OpenINFOPerformanceData
Close = CloseINFOPerformanceData
Collect = CollectINFOPerformanceData
PerfIniFile = infoctrs.ini
Last Counter = REG_DWORD 0x000009a6
Last Help = REG_DWORD 0x000009a7
First Counter = REG_DWORD 0x00000966
First Help = REG_DWORD 0x00000967
Object List = 2406
Library Validation Code = REG_BINARY 0x00000010 0x854b8e00
0x01c71f04 0x00002000 0x00000000
WbemAdapFileSignature = REG_BINARY 0x00000010 0xe7d3c34c
0xe056ca44 0x14a0e8f3 0x0ffb2652
WbemAdapFileTime = REG_BINARY 0x00000008 0x846dd34e 0x01c71f04
WbemAdapFileSize = REG_DWORD 0x00002000
WbemAdapStatus = REG_DWORD 0x00000000
```

Tcpip Parameters

System_Currentcontrolset_Services_Tcpip.txt

(Common to 6 clients except for Host Name, Physical Address, and IP Address)

```
\registry\machine\system\currentcontrolset\services\Tcpip\Parameters
NV Hostname = samm-client1
```

```
DataBasePath = REG_EXPAND_SZ %SystemRoot%\System32\drivers\etc
NameServer =
ForwardBroadcasts = REG_DWORD 0x00000000
IPEnableRouter = REG_DWORD 0x00000000
Domain =
Hostname = samm-client1
SearchList =
UseDomainNameDevolution = REG_DWORD 0x00000001
EnableICMPPRedirect = REG_DWORD 0x00000001
DeadGWDetectDefault = REG_DWORD 0x00000001
DontAddDefaultGatewayDefault = REG_DWORD 0x00000000
EnableSecurityFilters = REG_DWORD 0x00000000
ReservedPorts = REG_MULTI_SZ "3343-3343"
KeepAliveInterval = REG_DWORD 0x00002710
MaxUserPort = REG_DWORD 0x0001ffff
Adapters
NdisWanIp
LLInterface = WANARP
IpConfig = REG_MULTI_SZ
"Tcpip\Parameters\Interfaces\{D828588B-32F9-40B5-BA53-BAF721915F6F}" \
"Tcpip\Parameters\Interfaces\{09755819-
C064-4AAE-9B48-8F17985153AD}"
NumInterfaces = REG_DWORD 0x00000002
IpInterfaces = REG_BINARY 0x00000020 0xd828588b 0x40b532f9
0xf7ba53ba 0x6f5f9121 0x09755819 0x4aaec064 0x178f489b 0xad535198
{156AE0E3-3BA0-40C6-B85C-8A2938F8692C}
LLInterface =
IpConfig = REG_MULTI_SZ
"Tcpip\Parameters\Interfaces\{156AE0E3-3BA0-40C6-B85C-8A2938F8692C}"
{477541C7-5541-4C3A-990D-E8C70EC51362}
LLInterface =
IpConfig = REG_MULTI_SZ
"Tcpip\Parameters\Interfaces\{477541C7-5541-4C3A-990D-E8C70EC51362}"
DNSRegisteredAdapters
Interfaces
{09755819-C064-4AAE-9B48-8F17985153AD}
UseZeroBroadcast = REG_DWORD 0x00000000
EnabledDHCP = REG_DWORD 0x00000000
IPAddress = REG_MULTI_SZ "0.0.0.0"
SubnetMask = REG_MULTI_SZ "0.0.0.0"
DefaultGateway = REG_MULTI_SZ
EnableDeadGWDetect = REG_DWORD 0x00000001
DontAddDefaultGateway = REG_DWORD 0x00000000
{156AE0E3-3BA0-40C6-B85C-8A2938F8692C}
UseZeroBroadcast = REG_DWORD 0x00000000
EnableDeadGWDetect = REG_DWORD 0x00000001
EnabledDHCP = REG_DWORD 0x00000000
IPAddress = REG_MULTI_SZ "192.168.1.1"
SubnetMask = REG_MULTI_SZ "255.255.255.0"
DefaultGateway = REG_MULTI_SZ
DefaultGatewayMetric = REG_MULTI_SZ
NameServer =
Domain =
RegistrationEnabled = REG_DWORD 0x00000001
RegisterAdapterName = REG_DWORD 0x00000000
TCPAllowedPorts = REG_MULTI_SZ "0"
UDPAllowedPorts = REG_MULTI_SZ "0"
RawIPAllowedProtocols = REG_MULTI_SZ "0"
NTEContextList = REG_MULTI_SZ "0x00000004"
DhcpClassIdBin = REG_BINARY 0x00000000
DhcpServer = 255.255.255.255
Lease = REG_DWORD 0x00000e10
LeaseObtainedTime = REG_DWORD 0x4580b3a6
T1 = REG_DWORD 0x4580baae
T2 = REG_DWORD 0x4580bfff
LeaseTerminatesTime = REG_DWORD 0x4580c1b6
```

```

IPAutoconfigurationAddress = 0.0.0.0
IPAutoconfigurationMask = 255.255.0.0
IPAutoconfigurationSeed = REG_DWORD 0x00000000
AddressType = REG_DWORD 0x00000000
{477541C7-5541-4C3A-990D-E8C70EC51362}
UseZeroBroadcast = REG_DWORD 0x00000000
EnableDeadGWDetect = REG_DWORD 0x00000001
EnableDHCP = REG_DWORD 0x00000000
IPAddress = REG_MULTI_SZ "192.168.90.1" \
    "192.168.91.151" \
SubnetMask = REG_MULTI_SZ "255.255.255.0" \
    "255.255.255.0" \
DefaultGateway = REG_MULTI_SZ
DefaultGatewayMetric = REG_MULTI_SZ
NameServer =
Domain =
RegistrationEnabled = REG_DWORD 0x00000001
RegisterAdapterName = REG_DWORD 0x00000000
TCPAllowedPorts = REG_MULTI_SZ "0"
UDPAllowedPorts = REG_MULTI_SZ "0"
RawIPAllowedProtocols = REG_MULTI_SZ "0"
NTEContextList = REG_MULTI_SZ "0x00000002" \
    "0x00000003" \
DhcpClassIdBin = REG_BINARY 0x00000000
{D828588B-32F9-40B5-BA53-BAF721915F6F}
UseZeroBroadcast = REG_DWORD 0x00000000
EnableDHCP = REG_DWORD 0x00000000
IPAddress = REG_MULTI_SZ "0.0.0.0"
SubnetMask = REG_MULTI_SZ "0.0.0.0"
DefaultGateway = REG_MULTI_SZ
EnableDeadGWDetect = REG_DWORD 0x00000001
DontAddDefaultGateway = REG_DWORD 0x00000000
PersistentRoutes
Winsock
UseDelayedAcceptance = REG_DWORD 0x00000000
HelperDllName = REG_EXPAND_SZ %SystemRoot%\System32\wshtcpip.dll
MaxSockAddrLength = REG_DWORD 0x00000010
MinSockAddrLength = REG_DWORD 0x00000010
Mapping = REG_BINARY 0x00000008c 0x0000000b 0x00000003 0x00000002
0x00000001 0x00000006 0x00000002 0x00000001 0x00000000 0x00000002
0x00000000 0x00000006 0x00000000 0x00000000 0x00000006 0x00000000
0x00000001 0x00000006 0x00000002 \
    0x00000002 0x00000011 0x00000002 0x00000002 0x00000000
0x00000000 0x00000011 0x00000000 0x00000000 0x00000011
0x00000000 0x00000002 0x00000011 0x00000002 0x00000003 0x00000000

```

System_Currentcontrolset_Services_lpxkdrv.txt

```

\registry\machine\system\currentcontrolset\services\lpxkdrv
Type = REG_DWORD 0x00000001
Start = REG_DWORD 0x00000003
ErrorControl = REG_DWORD 0x00000001
ImagePath = REG_EXPAND_SZ system32\DRIVERS\lpxkdrv.sys
DisplayName = lpxkdrv
Description = LPXKSLI2 driver.
Affinity
0 = REG_DWORD 0xffffffff
1 = REG_DWORD 0xffffffff
2 = REG_DWORD 0xffffffff
3 = REG_DWORD 0xffffffff
4 = REG_DWORD 0xffffffff
5 = REG_DWORD 0xffffffff
6 = REG_DWORD 0xffffffff
7 = REG_DWORD 0xffffffff

```

```

Coalesce
0 = REG_DWORD 0x00000000
1 = REG_DWORD 0x00000000
2 = REG_DWORD 0x00000000
3 = REG_DWORD 0x00000000
4 = REG_DWORD 0x00000000
5 = REG_DWORD 0x00000000
6 = REG_DWORD 0x00000000
7 = REG_DWORD 0x00000000
Security [17 1]
Security = REG_BINARY 0x000000d0 0x80140001 0x000000b8 0x000000c4
0x00000014 0x00000030 0x001c0002 0x00000001 0x00148002 0x000f01ff
0x00000101 0x01000000 0x00000000 0x00880002 0x00000006 0x00140000
0x000201fd 0x00000101 0x05000000 \
    0x00000012 0x00180000 0x000f01ff 0x00000201 0x05000000
0x00000020 0x00000220 0x00140000 0x0002018d 0x00000101 0x05000000
0x00000004 0x00140000 0x0002018d 0x00000101 0x05000000 0x00000006
0x00140000 0x00000100 0x00000101 \
    0x05000000 0x0000000b 0x00180000 0x000201fd 0x00000201
0x05000000 0x00000020 0x00000223 0x00000101 0x05000000 0x00000012
0x00000101 0x05000000 0x00000012
TgtIntCnt
0 = REG_DWORD 0x00000000
1 = REG_DWORD 0x00000000
2 = REG_DWORD 0x00000000
3 = REG_DWORD 0x00000000
4 = REG_DWORD 0x00000000
5 = REG_DWORD 0x00000000
6 = REG_DWORD 0x00000000
7 = REG_DWORD 0x00000000
Enum
0 =
PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\5&1b4f3478&0&180230
Count = REG_DWORD 0x00000002
NextInstance = REG_DWORD 0x00000002
1 =
PCI\VEN_10DF&DEV_FA00&SUBSYS_FA0010DF&REV_01\5&1b4f3478&0&190230

```

MSSQL Server Registry Parameters

System_CurrentControlSet_Services_MSSQLSERVER.txt

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER
Class Name: <NO CLASS>
Last Write Time: 3/6/2007 - 11:10 AM
Value 0
Name: Type
Type: REG_DWORD
Data: 0x10
Value 1
Name: Start
Type: REG_DWORD
Data: 0x3
Value 2
Name: ErrorControl
Type: REG_DWORD
Data: 0x1

```

Value 3
Name: ImagePath
Type: REG_EXPAND_SZ
Data: "C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\Binn\sqlservr.exe" -sMSSQLSERVER

Value 4
Name: DisplayName
Type: REG_SZ
Data: SQL Server (MSSQLSERVER)

Value 5
Name: ObjectName
Type: REG_SZ
Data: NT AUTHORITY\NetworkService

Value 6
Name: Description
Type: REG_SZ
Data: Provides storage, processing and controlled access of data and rapid transaction processing.

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Linkage
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: Export
Type: REG_MULTI_SZ
Data: MSSQLSERVER

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Performance
Class Name: <NO CLASS>
Last Write Time: 2/6/2007 - 11:50 AM

Value 0
Name: Library
Type: REG_SZ
Data: sqlctr90.dll

Value 1
Name: Open
Type: REG_SZ
Data: OpenSQLPerformanceData1

Value 2
Name: Collect
Type: REG_SZ
Data: CollectSQLPerformanceData1

Value 3
Name: Close
Type: REG_SZ
Data: CloseSQLPerformanceData1

Value 4
Name: PerfIniFile
Type: REG_SZ
Data: perf-MSSQLSERVERsqlctr.ini

Value 5
Name: WbemAdapFileSignature
Type: REG_BINARY

Data:
00000000 5a f8 6c 66 19 56 30 b3 - ca 11 3d ba 46 b5 09 f9
Z0lf.V0³Ê.=°Fpù

Value 6
Name: WbemAdapFileTime
Type: REG_BINARY
Data: 00 cf 32 0c 0a 1a c7 01 - .İ2...Ç.

Value 7
Name: WbemAdapFileSize
Type: REG_DWORD
Data: 0x13120

Value 8
Name: WbemAdapStatus
Type: REG_DWORD
Data: 0

Value 9
Name: Last Counter
Type: REG_DWORD
Data: 0x158a

Value 10
Name: Last Help
Type: REG_DWORD
Data: 0x158b

Value 11
Name: First Counter
Type: REG_DWORD
Data: 0x1316

Value 12
Name: First Help
Type: REG_DWORD
Data: 0x1317

Value 13
Name: Library Validation Code
Type: REG_BINARY
Data: 00000000 00 cf 32 0c 0a 1a c7 01 - 20 31 01 00 00 00 00 00 .İ2...Ç.
1.....

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Security
Class Name: <NO CLASS>
Last Write Time: 1/19/2007 - 11:48 AM

Value 0
Name: Security
Type: REG_BINARY
Data: 00000000 01 00 14 80 b8 00 00 00 - c4 00 00 00 14 00 00 00
.....Ä.....
00000010 30 00 00 00 02 00 1c 00 - 01 00 00 00 02 80 14 00
0.....
00000020 ff 01 0f 00 01 01 00 00 - 00 00 00 01 00 00 00 00
ÿ.....
00000030 02 00 88 00 06 00 00 00 - 00 00 14 00 fd 01 02 00
.....ÿ...

```

00000040 01 01 00 00 00 00 05 - 12 00 00 00 00 00 18 00
00000050 ff 01 0f 00 01 02 00 00 - 00 00 00 05 20 00 00 00 ỹ.....
00000060 20 02 00 00 00 00 14 00 - 8d 01 02 00 01 01 00 00
00000070 00 00 00 05 04 00 00 00 - 00 00 14 00 8d 01 02 00
00000080 01 01 00 00 00 00 05 - 06 00 00 00 00 00 14 00
00000090 00 01 00 00 01 01 00 00 - 00 00 00 05 0b 00 00 00
000000a0 00 00 18 00 fd 01 02 00 - 01 02 00 00 00 00 05
000000b0 20 00 00 00 23 02 00 00 - 01 01 00 00 00 00 05
000000c0 12 00 00 00 01 01 00 00 - 00 00 00 05 12 00 00 00
.....

```

```

Key Name:
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Enum
Class Name: <NO CLASS>
Last Write Time: 3/6/2007 - 11:10 AM
Value 0
  Name: 0
  Type: REG_SZ
  Data: Root\LEGACY_MSSQLSERVER\0000
Value 1
  Name: Count
  Type: REG_DWORD
  Data: 0x1
Value 2
  Name: NextInstance
  Type: REG_DWORD
  Data: 0x1

```

Software_Microsoft_Mssqlserver_Client_sni90_via.txt

```

\registry\machine\software\microsoft\mssqlserver\client\SNI9.0\VIA
  DLLName = SQLNCLI
  NumberOfFlags = REG_DWORD 0x00000000
  NumberOfProperties = REG_DWORD 0x00000002
  ProtocolName = VIA
  Vendor = Unisys
  Property1
    Name = Default Server Port
    Value = 1401
  Property2
    Name = Default Client NIC
    Value = 0
  Property3
    Value = Uvipl.dll
    Name = VendorDLL

```

Software_Microsoft_Mssqlserver_Client_Connectto_Sqlconnect.txt (Common to all 6 clients except for DBServer port #)

```

\registry\machine\software\microsoft\mssqlserver\client\connectto
  DSQUERY = DBMSSOCN
  ckpt = DBMSSOCN,192.168.90.141,1402
  DBSERVER-tcp = DBMSSOCN,192.168.90.141,1401
  DBSERVER = DBNETLIB,via:unisys-mv-tpcc,1401,0
  CKPT-vi = DBNETLIB,via:unisys-mv-tpcc,1401,0

```

Start World Wide Web Server Registry Parameters

System_Currentcontrolset_Services_W3svc.txt

```

\registry\machine\system\currentcontrolset\services\w3svc
  Type = REG_DWORD 0x00000020
  Start = REG_DWORD 0x00000003
  ErrorControl = REG_DWORD 0x00000001
  ImagePath = REG_EXPAND_SZ %SystemRoot%\System32\svchost.exe -k iissvcs
  DisplayName = World Wide Web Publishing Service
  DependOnService = REG_MULTI_SZ "RPCSS" \
  "HTTPFilter" \
  "IISADMIN"

  DependOnGroup = REG_MULTI_SZ
  ObjectName = LocalSystem
  Description = Provides Web connectivity and administration through the
  Internet Information Services Manager
  FailureActions = REG_BINARY 0x0000002c 0x00015180 0x00000001
  0x00000000 0x00000003 0x00650053 0x00000001 0x00000001 0x00000001
  0x00000001 0x00000001 0x00000001
  Parameters
    MajorVersion = REG_DWORD 0x00000005
    MinorVersion = REG_DWORD 0x00000000
    InstallPath = C:\WINNT\System32\inetrv
    AccessDeniedMessage = Error: Access is Denied.
    ServiceDll = REG_EXPAND_SZ
  C:\WINDOWS\system32\inetrv\iisw3adm.dll
    AcceptExOutStanding = REG_DWORD 0x00000100
    CertMapList = C:\WINNT\System32\inetrv\iisrmap.dll
    Filter DLLs =
    LogFileDirectory = C:\WINNT\System32\LogFiles
    ADCLaunch
      AdvancedDataFactory
      RDSSEServer.DataFactory
    Script Map
    Virtual Roots
      / = c:\inetpub\wwwroot,,207
      /Scripts = c:\inetpub\scripts,,204
      /IISHelp = c:\winnt\help\iishelp,,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 = C:\WINDOWS\system32\inetrv\w3ctrs.dll
    Open = OpenW3PerformanceData

```

```

Close = CloseW3PerformanceData
Collect = CollectW3PerformanceData
PerfIniFile = w3ctrs.ini
Last Counter = REG_DWORD 0x00000a9e
Last Help = REG_DWORD 0x00000a9f
First Counter = REG_DWORD 0x000009a8
First Help = REG_DWORD 0x000009a9
Object List = 2472 2646
Library Validation Code = REG_BINARY 0x00000010 0x854b8e00
0x01c71f04 0x00005e00 0x00000000
WbemAdapFileSignature = REG_BINARY 0x00000010 0x2c6ce339
0xf559beb4 0xd5c47c17 0x1af7dc2f
WbemAdapFileTime = REG_BINARY 0x00000008 0x853618d6 0x01c71f04
WbemAdapFileSize = REG_DWORD 0x00005e00
WbemAdapStatus = REG_DWORD 0x00000000
Security [17 1]
Security = REG_BINARY 0x000000d0 0x80140001 0x000000b8 0x000000c4
0x00000014 0x00000030 0x001c0002 0x00000001 0x00148002 0x000f01ff
0x00000101 0x01000000 0x00000000 0x00880002 0x00000006 0x00140000
0x000201fd 0x00000101 0x05000000 \
0x00000012 0x00180000 0x000f01ff 0x00000201 0x05000000
0x00000020 0x00000220 0x00140000 0x0002018d 0x00000101 0x05000000
0x00000004 0x00140000 0x0002018d 0x00000101 0x05000000 0x00000006
0x00140000 0x00000100 0x00000101 \
0x05000000 0x0000000b 0x00180000 0x000201fd 0x00000201
0x05000000 0x00000020 0x00000223 0x00000101 0x05000000 0x00000012

```

```

0x00000101 0x05000000 0x00000012
Enum
0 = Root\LEGACY_W3SVC\0000
Count = REG_DWORD 0x00000001
NextInstance = REG_DWORD 0x00000001

```

TPCC Application Settings

Software\Unisys.txt

```

\registry\machine\software\unisys
TPCC
MAXTERMS = 200000
DELIVERYTHREADS = 40
SERVERNAME = DBSERVER
DATABASE = tpcc

```



Appendix D - RTE Code

Admin Environment

Webnnnn.cmd

```
if '%1'==' ' goto usage
if '%2'==' ' goto usage
if '%3'==' ' goto usage

:paramok

set WEBCHECKWIDS=1
set WEBDIAGLEVEL=4
set WEBEVENTLOG=0
set WEBEVENTHOST=
set WEBCHECKLEVEL=2

c:\webdriver\webadmin.exe -cweb%1.cfg -m%2 -d%3 -s160
if %ERRORLEVEL% NEQ 0 pause

goto end

:usage
@ECHO You must supply the following parameters:
@ECHO "webnnn.cmd <cfg file suffix> <min driver #> <max driver #>"
pause

:end
```

Profiles used for Performance Run

WebAdmin.cfg

```
//
/// Common Driver Configuration
//
INITBASEPORT 4300
INITSYNCMAX 4
INITPAUSE 1
INITRSCALE 1000
INITSCALE 2000
INITRWID 1,41600
INITFIXEDWID 1
INITCCLAST 208
INITCCID 208
INITCITEMID 208
//
/// Configuration Driver 1
//
1 INITIPADDR 192.168.91.1
1 INITIISADDR 192.168.1.1
1 INITIISPORT 80
1 INITBROWSERS 990
```

```
1 INITMYWID 1,99
//
/// Configuration Driver 2
//
2 INITIPADDR 192.168.91.1
2 INITIISADDR 192.168.1.1
2 INITIISPORT 80
2 INITBROWSERS 990
2 INITMYWID 100,198
//
/// Configuration Driver 3
//
3 INITIPADDR 192.168.91.1
3 INITIISADDR 192.168.1.1
3 INITIISPORT 80
3 INITBROWSERS 990
3 INITMYWID 199,297
//
/// Configuration Driver 4
//
4 INITIPADDR 192.168.91.1
4 INITIISADDR 192.168.1.1
4 INITIISPORT 80
4 INITBROWSERS 990
4 INITMYWID 298,396
//
/// Configuration Driver 5
//
5 INITIPADDR 192.168.91.1
5 INITIISADDR 192.168.1.1
5 INITIISPORT 80
5 INITBROWSERS 990
5 INITMYWID 397,495
//
/// Configuration Driver 6
//
6 INITIPADDR 192.168.91.1
6 INITIISADDR 192.168.1.1
6 INITIISPORT 80
6 INITBROWSERS 990
6 INITMYWID 496,594
//
/// Configuration Driver 7
//
7 INITIPADDR 192.168.91.1
7 INITIISADDR 192.168.1.1
7 INITIISPORT 80
7 INITBROWSERS 990
7 INITMYWID 595,693
//
/// Configuration Driver 8
//
8 INITIPADDR 192.168.91.1
8 INITIISADDR 192.168.1.1
8 INITIISPORT 80
8 INITBROWSERS 990
8 INITMYWID 694,792
//
/// Configuration Driver 9
//
9 INITIPADDR 192.168.91.1
9 INITIISADDR 192.168.1.1
9 INITIISPORT 80
9 INITBROWSERS 990
9 INITMYWID 793,891
//
```

```

//Configuration Driver 10
//
10 INITIPADDR 192.168.91.1
10 INITIISADDR 192.168.1.1
10 INITIISPORT 80
10 INITBROWSERS 990
10 INITMYWID 892,990
//
//Configuration Driver 11
//
11 INITIPADDR 192.168.91.1
11 INITIISADDR 192.168.1.1
11 INITIISPORT 80
11 INITBROWSERS 990
11 INITMYWID 991,1089
//
//Configuration Driver 12
//
12 INITIPADDR 192.168.91.1
12 INITIISADDR 192.168.1.1
12 INITIISPORT 80
12 INITBROWSERS 990
12 INITMYWID 1090,1188
//
//Configuration Driver 13
//
13 INITIPADDR 192.168.91.1
13 INITIISADDR 192.168.1.1
13 INITIISPORT 80
13 INITBROWSERS 990
13 INITMYWID 1189,1287
//
//Configuration Driver 14
//
14 INITIPADDR 192.168.91.1
14 INITIISADDR 192.168.1.1
14 INITIISPORT 80
14 INITBROWSERS 990
14 INITMYWID 1288,1386
//
//Configuration Driver 15
//
15 INITIPADDR 192.168.91.1
15 INITIISADDR 192.168.1.1
15 INITIISPORT 80
15 INITBROWSERS 990
15 INITMYWID 1387,1485
//
//Configuration Driver 16
//
16 INITIPADDR 192.168.91.1
16 INITIISADDR 192.168.1.1
16 INITIISPORT 80
16 INITBROWSERS 990
16 INITMYWID 1486,1584
//
//Configuration Driver 17
//
17 INITIPADDR 192.168.91.1
17 INITIISADDR 192.168.1.1
17 INITIISPORT 80
17 INITBROWSERS 990
17 INITMYWID 1585,1683
//
//Configuration Driver 18
//

```

```

18 INITIPADDR 192.168.91.1
18 INITIISADDR 192.168.1.1
18 INITIISPORT 80
18 INITBROWSERS 990
18 INITMYWID 1684,1782
//
//Configuration Driver 19
//
19 INITIPADDR 192.168.91.1
19 INITIISADDR 192.168.1.1
19 INITIISPORT 80
19 INITBROWSERS 990
19 INITMYWID 1783,1881
//
//Configuration Driver 20
//
20 INITIPADDR 192.168.91.1
20 INITIISADDR 192.168.1.1
20 INITIISPORT 80
20 INITBROWSERS 990
20 INITMYWID 1882,1980
//
//Configuration Driver 21
//
21 INITIPADDR 192.168.91.1
21 INITIISADDR 192.168.1.1
21 INITIISPORT 80
21 INITBROWSERS 990
21 INITMYWID 1981,2079
//
//Configuration Driver 22
//
22 INITIPADDR 192.168.91.1
22 INITIISADDR 192.168.1.1
22 INITIISPORT 80
22 INITBROWSERS 990
22 INITMYWID 2080,2178
//
//Configuration Driver 23
//
23 INITIPADDR 192.168.91.1
23 INITIISADDR 192.168.1.1
23 INITIISPORT 80
23 INITBROWSERS 990
23 INITMYWID 2179,2277
//
//Configuration Driver 24
//
24 INITIPADDR 192.168.91.1
24 INITIISADDR 192.168.1.1
24 INITIISPORT 80
24 INITBROWSERS 990
24 INITMYWID 2278,2376
//
//Configuration Driver 25
//
25 INITIPADDR 192.168.91.1
25 INITIISADDR 192.168.1.1
25 INITIISPORT 80
25 INITBROWSERS 990
25 INITMYWID 2377,2475
//
//Configuration Driver 26
//
26 INITIPADDR 192.168.91.1
26 INITIISADDR 192.168.1.1

```



```

26 INITIISPORT 80
26 INITBROWSERS 990
26 INITMYWID 2476,2574
//
//Configuration Driver 27
//
27 INITIPADDR 192.168.91.1
27 INITIISADDR 192.168.1.1
27 INITIISPORT 80
27 INITBROWSERS 990
27 INITMYWID 2575,2673
//
//Configuration Driver 28
//
28 INITIPADDR 192.168.91.1
28 INITIISADDR 192.168.1.1
28 INITIISPORT 80
28 INITBROWSERS 990
28 INITMYWID 2674,2772
//
//Configuration Driver 29
//
29 INITIPADDR 192.168.91.1
29 INITIISADDR 192.168.1.1
29 INITIISPORT 80
29 INITBROWSERS 990
29 INITMYWID 2773,2871
//
//Configuration Driver 30
//
30 INITIPADDR 192.168.91.1
30 INITIISADDR 192.168.1.1
30 INITIISPORT 80
30 INITBROWSERS 990
30 INITMYWID 2872,2970
//
//Configuration Driver 31
//
31 INITIPADDR 192.168.91.1
31 INITIISADDR 192.168.1.1
31 INITIISPORT 80
31 INITBROWSERS 990
31 INITMYWID 2971,3069
//
//Configuration Driver 32
//
32 INITIPADDR 192.168.91.1
32 INITIISADDR 192.168.1.1
32 INITIISPORT 80
32 INITBROWSERS 990
32 INITMYWID 3070,3168
//
//Configuration Driver 33
//
33 INITIPADDR 192.168.91.1
33 INITIISADDR 192.168.1.1
33 INITIISPORT 80
33 INITBROWSERS 990
33 INITMYWID 3169,3267
//
//Configuration Driver 34
//
34 INITIPADDR 192.168.91.1
34 INITIISADDR 192.168.1.1
34 INITIISPORT 80
34 INITBROWSERS 990

```

```

34 INITMYWID 3268,3366
//
//Configuration Driver 35
//
35 INITIPADDR 192.168.91.1
35 INITIISADDR 192.168.1.1
35 INITIISPORT 80
35 INITBROWSERS 990
35 INITMYWID 3367,3465
//
//Configuration Driver 36
//
36 INITIPADDR 192.168.91.1
36 INITIISADDR 192.168.1.1
36 INITIISPORT 80
36 INITBROWSERS 990
36 INITMYWID 3466,3564
//
//Configuration Driver 37
//
37 INITIPADDR 192.168.91.1
37 INITIISADDR 192.168.1.1
37 INITIISPORT 80
37 INITBROWSERS 990
37 INITMYWID 3565,3663
//
//Configuration Driver 38
//
38 INITIPADDR 192.168.91.1
38 INITIISADDR 192.168.1.1
38 INITIISPORT 80
38 INITBROWSERS 990
38 INITMYWID 3664,3762
//
//Configuration Driver 39
//
39 INITIPADDR 192.168.91.1
39 INITIISADDR 192.168.1.1
39 INITIISPORT 80
39 INITBROWSERS 990
39 INITMYWID 3763,3861
//
//Configuration Driver 40
//
40 INITIPADDR 192.168.91.1
40 INITIISADDR 192.168.1.1
40 INITIISPORT 80
40 INITBROWSERS 990
40 INITMYWID 3862,3960
//
//Configuration Driver 41
//
41 INITIPADDR 192.168.91.2
41 INITIISADDR 192.168.1.1
41 INITIISPORT 80
41 INITBROWSERS 990
41 INITMYWID 3961,4059
//
//Configuration Driver 42
//
42 INITIPADDR 192.168.91.2
42 INITIISADDR 192.168.1.1
42 INITIISPORT 80
42 INITBROWSERS 990
42 INITMYWID 4060,4158
//

```

```
//Configuration Driver 43
//
43 INITIPADDR 192.168.91.2
43 INITIISADDR 192.168.1.1
43 INITIISPORT 80
43 INITBROWSERS 990
43 INITMYWID 4159,4257
//
//Configuration Driver 44
//
44 INITIPADDR 192.168.91.2
44 INITIISADDR 192.168.1.1
44 INITIISPORT 80
44 INITBROWSERS 990
44 INITMYWID 4258,4356
//
//Configuration Driver 45
//
45 INITIPADDR 192.168.91.2
45 INITIISADDR 192.168.1.1
45 INITIISPORT 80
45 INITBROWSERS 990
45 INITMYWID 4357,4455
//
//Configuration Driver 46
//
46 INITIPADDR 192.168.91.2
46 INITIISADDR 192.168.1.1
46 INITIISPORT 80
46 INITBROWSERS 990
46 INITMYWID 4456,4554
//
//Configuration Driver 47
//
47 INITIPADDR 192.168.91.2
47 INITIISADDR 192.168.1.1
47 INITIISPORT 80
47 INITBROWSERS 990
47 INITMYWID 4555,4653
//
//Configuration Driver 48
//
48 INITIPADDR 192.168.91.2
48 INITIISADDR 192.168.1.1
48 INITIISPORT 80
48 INITBROWSERS 990
48 INITMYWID 4654,4752
//
//Configuration Driver 49
//
49 INITIPADDR 192.168.91.2
49 INITIISADDR 192.168.1.1
49 INITIISPORT 80
49 INITBROWSERS 990
49 INITMYWID 4753,4851
//
//Configuration Driver 50
//
50 INITIPADDR 192.168.91.2
50 INITIISADDR 192.168.1.1
50 INITIISPORT 80
50 INITBROWSERS 990
50 INITMYWID 4852,4950
//
//Configuration Driver 51
//
```

```
51 INITIPADDR 192.168.91.2
51 INITIISADDR 192.168.1.1
51 INITIISPORT 80
51 INITBROWSERS 990
51 INITMYWID 4951,5049
//
//Configuration Driver 52
//
52 INITIPADDR 192.168.91.2
52 INITIISADDR 192.168.1.1
52 INITIISPORT 80
52 INITBROWSERS 990
52 INITMYWID 5050,5148
//
//Configuration Driver 53
//
53 INITIPADDR 192.168.91.2
53 INITIISADDR 192.168.1.1
53 INITIISPORT 80
53 INITBROWSERS 990
53 INITMYWID 5149,5247
//
//Configuration Driver 54
//
54 INITIPADDR 192.168.91.2
54 INITIISADDR 192.168.1.1
54 INITIISPORT 80
54 INITBROWSERS 990
54 INITMYWID 5248,5346
//
//Configuration Driver 55
//
55 INITIPADDR 192.168.91.2
55 INITIISADDR 192.168.1.1
55 INITIISPORT 80
55 INITBROWSERS 990
55 INITMYWID 5347,5445
//
//Configuration Driver 56
//
56 INITIPADDR 192.168.91.2
56 INITIISADDR 192.168.1.1
56 INITIISPORT 80
56 INITBROWSERS 990
56 INITMYWID 5446,5544
//
//Configuration Driver 57
//
57 INITIPADDR 192.168.91.2
57 INITIISADDR 192.168.1.1
57 INITIISPORT 80
57 INITBROWSERS 990
57 INITMYWID 5545,5643
//
//Configuration Driver 58
//
58 INITIPADDR 192.168.91.2
58 INITIISADDR 192.168.1.1
58 INITIISPORT 80
58 INITBROWSERS 990
58 INITMYWID 5644,5742
//
//Configuration Driver 59
//
59 INITIPADDR 192.168.91.2
59 INITIISADDR 192.168.1.1
```

```

59 INITIISPORT 80
59 INITBROWSERS 990
59 INITMYWID 5743,5841
//
//Configuration Driver 60
//
60 INITIPADDR 192.168.91.2
60 INITIISADDR 192.168.1.1
60 INITIISPORT 80
60 INITBROWSERS 990
60 INITMYWID 5842,5940
//
//Configuration Driver 61
//
61 INITIPADDR 192.168.91.2
61 INITIISADDR 192.168.1.1
61 INITIISPORT 80
61 INITBROWSERS 990
61 INITMYWID 5941,6039
//
//Configuration Driver 62
//
62 INITIPADDR 192.168.91.2
62 INITIISADDR 192.168.1.1
62 INITIISPORT 80
62 INITBROWSERS 990
62 INITMYWID 6040,6138
//
//Configuration Driver 63
//
63 INITIPADDR 192.168.91.2
63 INITIISADDR 192.168.1.1
63 INITIISPORT 80
63 INITBROWSERS 990
63 INITMYWID 6139,6237
//
//Configuration Driver 64
//
64 INITIPADDR 192.168.91.2
64 INITIISADDR 192.168.1.1
64 INITIISPORT 80
64 INITBROWSERS 990
64 INITMYWID 6238,6336
//
//Configuration Driver 65
//
65 INITIPADDR 192.168.91.2
65 INITIISADDR 192.168.1.1
65 INITIISPORT 80
65 INITBROWSERS 990
65 INITMYWID 6337,6435
//
//Configuration Driver 66
//
66 INITIPADDR 192.168.91.2
66 INITIISADDR 192.168.1.1
66 INITIISPORT 80
66 INITBROWSERS 990
66 INITMYWID 6436,6534
//
//Configuration Driver 67
//
67 INITIPADDR 192.168.91.2
67 INITIISADDR 192.168.1.1
67 INITIISPORT 80
67 INITBROWSERS 990

```

```

67 INITMYWID 6535,6633
//
//Configuration Driver 68
68 INITIPADDR 192.168.91.2
68 INITIISADDR 192.168.1.1
68 INITIISPORT 80
68 INITBROWSERS 990
68 INITMYWID 6634,6732
//
//Configuration Driver 69
//
69 INITIPADDR 192.168.91.2
69 INITIISADDR 192.168.1.1
69 INITIISPORT 80
69 INITBROWSERS 990
69 INITMYWID 6733,6831
//
//Configuration Driver 70
//
70 INITIPADDR 192.168.91.2
70 INITIISADDR 192.168.1.1
70 INITIISPORT 80
70 INITBROWSERS 990
70 INITMYWID 6832,6930
//
//Configuration Driver 71
//
71 INITIPADDR 192.168.91.2
71 INITIISADDR 192.168.1.1
71 INITIISPORT 80
71 INITBROWSERS 990
71 INITMYWID 6931,7029
//
//Configuration Driver 72
//
72 INITIPADDR 192.168.91.2
72 INITIISADDR 192.168.1.1
72 INITIISPORT 80
72 INITBROWSERS 990
72 INITMYWID 7030,7128
//
//Configuration Driver 73
//
73 INITIPADDR 192.168.91.2
73 INITIISADDR 192.168.1.1
73 INITIISPORT 80
73 INITBROWSERS 990
73 INITMYWID 7129,7227
//
//Configuration Driver 74
//
74 INITIPADDR 192.168.91.2
74 INITIISADDR 192.168.1.1
74 INITIISPORT 80
74 INITBROWSERS 990
74 INITMYWID 7228,7326
//
//Configuration Driver 75
//
75 INITIPADDR 192.168.91.2
75 INITIISADDR 192.168.1.1
75 INITIISPORT 80
75 INITBROWSERS 990
75 INITMYWID 7327,7425
//

```

```

//Configuration Driver 76
//
76 INITIPADDR 192.168.91.2
76 INITIISADDR 192.168.1.1
76 INITIISPORT 80
76 INITBROWSERS 990
76 INITMYWID 7426,7524
//
//Configuration Driver 77
//
77 INITIPADDR 192.168.91.2
77 INITIISADDR 192.168.1.1
77 INITIISPORT 80
77 INITBROWSERS 990
77 INITMYWID 7525,7623
//
//Configuration Driver 78
//
78 INITIPADDR 192.168.91.2
78 INITIISADDR 192.168.1.1
78 INITIISPORT 80
78 INITBROWSERS 990
78 INITMYWID 7624,7722
//
//Configuration Driver 79
//
79 INITIPADDR 192.168.91.2
79 INITIISADDR 192.168.1.1
79 INITIISPORT 80
79 INITBROWSERS 990
79 INITMYWID 7723,7821
//
//Configuration Driver 80
//
80 INITIPADDR 192.168.91.2
80 INITIISADDR 192.168.1.1
80 INITIISPORT 80
80 INITBROWSERS 990
80 INITMYWID 7822,7920
//
//Configuration Driver 81
//
81 INITIPADDR 192.168.91.3
81 INITIISADDR 192.168.2.1
81 INITIISPORT 80
81 INITBROWSERS 1000
81 INITMYWID 7921,8020
//
//Configuration Driver 82
//
82 INITIPADDR 192.168.91.3
82 INITIISADDR 192.168.2.1
82 INITIISPORT 80
82 INITBROWSERS 1000
82 INITMYWID 8021,8120
//
//Configuration Driver 83
//
83 INITIPADDR 192.168.91.3
83 INITIISADDR 192.168.2.1
83 INITIISPORT 80
83 INITBROWSERS 1000
83 INITMYWID 8121,8220
//
//Configuration Driver 84
//

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```

84 INITIPADDR 192.168.91.3
84 INITIISADDR 192.168.2.1
84 INITIISPORT 80
84 INITBROWSERS 1000
84 INITMYWID 8221,8320
//
//Configuration Driver 85
//
85 INITIPADDR 192.168.91.3
85 INITIISADDR 192.168.2.1
85 INITIISPORT 80
85 INITBROWSERS 1000
85 INITMYWID 8321,8420
//
//Configuration Driver 86
//
86 INITIPADDR 192.168.91.3
86 INITIISADDR 192.168.2.1
86 INITIISPORT 80
86 INITBROWSERS 1000
86 INITMYWID 8421,8520
//
//Configuration Driver 87
//
87 INITIPADDR 192.168.91.3
87 INITIISADDR 192.168.2.1
87 INITIISPORT 80
87 INITBROWSERS 1000
87 INITMYWID 8521,8620
//
//Configuration Driver 88
//
88 INITIPADDR 192.168.91.3
88 INITIISADDR 192.168.2.1
88 INITIISPORT 80
88 INITBROWSERS 1000
88 INITMYWID 8621,8720
//
//Configuration Driver 89
//
89 INITIPADDR 192.168.91.3
89 INITIISADDR 192.168.2.1
89 INITIISPORT 80
89 INITBROWSERS 1000
89 INITMYWID 8721,8820
//
//Configuration Driver 90
//
90 INITIPADDR 192.168.91.3
90 INITIISADDR 192.168.2.1
90 INITIISPORT 80
90 INITBROWSERS 1000
90 INITMYWID 8821,8920
//
//Configuration Driver 91
//
91 INITIPADDR 192.168.91.3
91 INITIISADDR 192.168.2.1
91 INITIISPORT 80
91 INITBROWSERS 1000
91 INITMYWID 8921,9020
//
//Configuration Driver 92
//
92 INITIPADDR 192.168.91.3
92 INITIISADDR 192.168.2.1

```

```

92 INITIISPORT 80
92 INITBROWSERS 1000
92 INITMYWID 9021,9120
//
//Configuration Driver 93
//
93 INITIPADDR 192.168.91.3
93 INITIISADDR 192.168.2.1
93 INITIISPORT 80
93 INITBROWSERS 1000
93 INITMYWID 9121,9220
//
//Configuration Driver 94
//
94 INITIPADDR 192.168.91.3
94 INITIISADDR 192.168.2.1
94 INITIISPORT 80
94 INITBROWSERS 1000
94 INITMYWID 9221,9320
//
//Configuration Driver 95
//
95 INITIPADDR 192.168.91.3
95 INITIISADDR 192.168.2.1
95 INITIISPORT 80
95 INITBROWSERS 1000
95 INITMYWID 9321,9420
//
//Configuration Driver 96
//
96 INITIPADDR 192.168.91.3
96 INITIISADDR 192.168.2.1
96 INITIISPORT 80
96 INITBROWSERS 1000
96 INITMYWID 9421,9520
//
//Configuration Driver 97
//
97 INITIPADDR 192.168.91.3
97 INITIISADDR 192.168.2.1
97 INITIISPORT 80
97 INITBROWSERS 1000
97 INITMYWID 9521,9620
//
//Configuration Driver 98
//
98 INITIPADDR 192.168.91.3
98 INITIISADDR 192.168.2.1
98 INITIISPORT 80
98 INITBROWSERS 1000
98 INITMYWID 9621,9720
//
//Configuration Driver 99
//
99 INITIPADDR 192.168.91.3
99 INITIISADDR 192.168.2.1
99 INITIISPORT 80
99 INITBROWSERS 1000
99 INITMYWID 9721,9820
//
//Configuration Driver 100
//
100 INITIPADDR 192.168.91.3
100 INITIISADDR 192.168.2.1
100 INITIISPORT 80
100 INITBROWSERS 1000

```

```

100 INITMYWID 9821,9920
//
//Configuration Driver 101
//
101 INITIPADDR 192.168.91.3
101 INITIISADDR 192.168.2.1
101 INITIISPORT 80
101 INITBROWSERS 1000
101 INITMYWID 9921,10020
//
//Configuration Driver 102
//
102 INITIPADDR 192.168.91.3
102 INITIISADDR 192.168.2.1
102 INITIISPORT 80
102 INITBROWSERS 1000
102 INITMYWID 10021,10120
//
//Configuration Driver 103
//
103 INITIPADDR 192.168.91.3
103 INITIISADDR 192.168.2.1
103 INITIISPORT 80
103 INITBROWSERS 1000
103 INITMYWID 10121,10220
//
//Configuration Driver 104
//
104 INITIPADDR 192.168.91.3
104 INITIISADDR 192.168.2.1
104 INITIISPORT 80
104 INITBROWSERS 1000
104 INITMYWID 10221,10320
//
//Configuration Driver 105
//
105 INITIPADDR 192.168.91.3
105 INITIISADDR 192.168.2.1
105 INITIISPORT 80
105 INITBROWSERS 1000
105 INITMYWID 10321,10420
//
//Configuration Driver 106
//
106 INITIPADDR 192.168.91.3
106 INITIISADDR 192.168.2.1
106 INITIISPORT 80
106 INITBROWSERS 1000
106 INITMYWID 10421,10520
//
//Configuration Driver 107
//
107 INITIPADDR 192.168.91.3
107 INITIISADDR 192.168.2.1
107 INITIISPORT 80
107 INITBROWSERS 1000
107 INITMYWID 10521,10620
//
//Configuration Driver 108
//
108 INITIPADDR 192.168.91.3
108 INITIISADDR 192.168.2.1
108 INITIISPORT 80
108 INITBROWSERS 1000
108 INITMYWID 10621,10720
//

```

```

//Configuration Driver 109
//
109 INITIPADDR 192.168.91.3
109 INITIISADDR 192.168.2.1
109 INITIISPORT 80
109 INITBROWSERS 1000
109 INITMYWID 10721,10820
//
//Configuration Driver 110
//
110 INITIPADDR 192.168.91.3
110 INITIISADDR 192.168.2.1
110 INITIISPORT 80
110 INITBROWSERS 1000
110 INITMYWID 10821,10920
//
//Configuration Driver 111
//
111 INITIPADDR 192.168.91.3
111 INITIISADDR 192.168.2.1
111 INITIISPORT 80
111 INITBROWSERS 1000
111 INITMYWID 10921,11020
//
//Configuration Driver 112
//
112 INITIPADDR 192.168.91.3
112 INITIISADDR 192.168.2.1
112 INITIISPORT 80
112 INITBROWSERS 1000
112 INITMYWID 11021,11120
//
//Configuration Driver 113
//
113 INITIPADDR 192.168.91.3
113 INITIISADDR 192.168.2.1
113 INITIISPORT 80
113 INITBROWSERS 1000
113 INITMYWID 11121,11220
//
//Configuration Driver 114
//
114 INITIPADDR 192.168.91.3
114 INITIISADDR 192.168.2.1
114 INITIISPORT 80
114 INITBROWSERS 1000
114 INITMYWID 11221,11320
//
//Configuration Driver 115
//
115 INITIPADDR 192.168.91.3
115 INITIISADDR 192.168.2.1
115 INITIISPORT 80
115 INITBROWSERS 1000
115 INITMYWID 11321,11420
//
//Configuration Driver 116
//
116 INITIPADDR 192.168.91.3
116 INITIISADDR 192.168.2.1
116 INITIISPORT 80
116 INITBROWSERS 1000
116 INITMYWID 11421,11520
//
//Configuration Driver 117
//

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117 INITIPADDR 192.168.91.3
117 INITIISADDR 192.168.2.1
117 INITIISPORT 80
117 INITBROWSERS 1000
117 INITMYWID 11521,11620
//
//Configuration Driver 118
//
118 INITIPADDR 192.168.91.3
118 INITIISADDR 192.168.2.1
118 INITIISPORT 80
118 INITBROWSERS 1000
118 INITMYWID 11621,11720
//
//Configuration Driver 119
//
119 INITIPADDR 192.168.91.3
119 INITIISADDR 192.168.2.1
119 INITIISPORT 80
119 INITBROWSERS 1000
119 INITMYWID 11721,11820
//
//Configuration Driver 120
//
120 INITIPADDR 192.168.91.3
120 INITIISADDR 192.168.2.1
120 INITIISPORT 80
120 INITBROWSERS 1000
120 INITMYWID 11821,11920
//
//Configuration Driver 121
//
121 INITIPADDR 192.168.91.4
121 INITIISADDR 192.168.2.1
121 INITIISPORT 80
121 INITBROWSERS 1000
121 INITMYWID 11921,12020
//
//Configuration Driver 122
//
122 INITIPADDR 192.168.91.4
122 INITIISADDR 192.168.2.1
122 INITIISPORT 80
122 INITBROWSERS 1000
122 INITMYWID 12021,12120
//
//Configuration Driver 123
//
123 INITIPADDR 192.168.91.4
123 INITIISADDR 192.168.2.1
123 INITIISPORT 80
123 INITBROWSERS 1000
123 INITMYWID 12121,12220
//
//Configuration Driver 124
//
124 INITIPADDR 192.168.91.4
124 INITIISADDR 192.168.2.1
124 INITIISPORT 80
124 INITBROWSERS 1000
124 INITMYWID 12221,12320
//
//Configuration Driver 125
//
125 INITIPADDR 192.168.91.4
125 INITIISADDR 192.168.2.1

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125 INITIISPORT 80
125 INITBROWSERS 1000
125 INITMYWID 12321,12420
//Configuration Driver 126
//
126 INITIPADDR 192.168.91.4
126 INITIISADDR 192.168.2.1
126 INITIISPORT 80
126 INITBROWSERS 1000
126 INITMYWID 12421,12520
//Configuration Driver 127
//
127 INITIPADDR 192.168.91.4
127 INITIISADDR 192.168.2.1
127 INITIISPORT 80
127 INITBROWSERS 1000
127 INITMYWID 12521,12620
//Configuration Driver 128
//
128 INITIPADDR 192.168.91.4
128 INITIISADDR 192.168.2.1
128 INITIISPORT 80
128 INITBROWSERS 1000
128 INITMYWID 12621,12720
//Configuration Driver 129
//
129 INITIPADDR 192.168.91.4
129 INITIISADDR 192.168.2.1
129 INITIISPORT 80
129 INITBROWSERS 1000
129 INITMYWID 12721,12820
//Configuration Driver 130
//
130 INITIPADDR 192.168.91.4
130 INITIISADDR 192.168.2.1
130 INITIISPORT 80
130 INITBROWSERS 1000
130 INITMYWID 12821,12920
//Configuration Driver 131
//
131 INITIPADDR 192.168.91.4
131 INITIISADDR 192.168.2.1
131 INITIISPORT 80
131 INITBROWSERS 1000
131 INITMYWID 12921,13020
//Configuration Driver 132
//
132 INITIPADDR 192.168.91.4
132 INITIISADDR 192.168.2.1
132 INITIISPORT 80
132 INITBROWSERS 1000
132 INITMYWID 13021,13120
//Configuration Driver 133
//
133 INITIPADDR 192.168.91.4
133 INITIISADDR 192.168.2.1
133 INITIISPORT 80
133 INITBROWSERS 1000

```

```

133 INITMYWID 13121,13220
//
//Configuration Driver 134
//
134 INITIPADDR 192.168.91.4
134 INITIISADDR 192.168.2.1
134 INITIISPORT 80
134 INITBROWSERS 1000
134 INITMYWID 13221,13320
//Configuration Driver 135
//
135 INITIPADDR 192.168.91.4
135 INITIISADDR 192.168.2.1
135 INITIISPORT 80
135 INITBROWSERS 1000
135 INITMYWID 13321,13420
//Configuration Driver 136
//
136 INITIPADDR 192.168.91.4
136 INITIISADDR 192.168.2.1
136 INITIISPORT 80
136 INITBROWSERS 1000
136 INITMYWID 13421,13520
//Configuration Driver 137
//
137 INITIPADDR 192.168.91.4
137 INITIISADDR 192.168.2.1
137 INITIISPORT 80
137 INITBROWSERS 1000
137 INITMYWID 13521,13620
//Configuration Driver 138
//
138 INITIPADDR 192.168.91.4
138 INITIISADDR 192.168.2.1
138 INITIISPORT 80
138 INITBROWSERS 1000
138 INITMYWID 13621,13720
//Configuration Driver 139
//
139 INITIPADDR 192.168.91.4
139 INITIISADDR 192.168.2.1
139 INITIISPORT 80
139 INITBROWSERS 1000
139 INITMYWID 13721,13820
//Configuration Driver 140
//
140 INITIPADDR 192.168.91.4
140 INITIISADDR 192.168.2.1
140 INITIISPORT 80
140 INITBROWSERS 1000
140 INITMYWID 13821,13920
//Configuration Driver 141
//
141 INITIPADDR 192.168.91.4
141 INITIISADDR 192.168.2.1
141 INITIISPORT 80
141 INITBROWSERS 1000
141 INITMYWID 13921,14020
//

```

```

//Configuration Driver 142
//
142 INITIPADDR 192.168.91.4
142 INITIISADDR 192.168.2.1
142 INITIISPORT 80
142 INITBROWSERS 1000
142 INITMYWID 14021,14120
//
//Configuration Driver 143
//
143 INITIPADDR 192.168.91.4
143 INITIISADDR 192.168.2.1
143 INITIISPORT 80
143 INITBROWSERS 1000
143 INITMYWID 14121,14220
//
//Configuration Driver 144
//
144 INITIPADDR 192.168.91.4
144 INITIISADDR 192.168.2.1
144 INITIISPORT 80
144 INITBROWSERS 1000
144 INITMYWID 14221,14320
//
//Configuration Driver 145
//
145 INITIPADDR 192.168.91.4
145 INITIISADDR 192.168.2.1
145 INITIISPORT 80
145 INITBROWSERS 1000
145 INITMYWID 14321,14420
//
//Configuration Driver 146
//
146 INITIPADDR 192.168.91.4
146 INITIISADDR 192.168.2.1
146 INITIISPORT 80
146 INITBROWSERS 1000
146 INITMYWID 14421,14520
//
//Configuration Driver 147
//
147 INITIPADDR 192.168.91.4
147 INITIISADDR 192.168.2.1
147 INITIISPORT 80
147 INITBROWSERS 1000
147 INITMYWID 14521,14620
//
//Configuration Driver 148
//
148 INITIPADDR 192.168.91.4
148 INITIISADDR 192.168.2.1
148 INITIISPORT 80
148 INITBROWSERS 1000
148 INITMYWID 14621,14720
//
//Configuration Driver 149
//
149 INITIPADDR 192.168.91.4
149 INITIISADDR 192.168.2.1
149 INITIISPORT 80
149 INITBROWSERS 1000
149 INITMYWID 14721,14820
//
//Configuration Driver 150
//

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```

150 INITIPADDR 192.168.91.4
150 INITIISADDR 192.168.2.1
150 INITIISPORT 80
150 INITBROWSERS 1000
150 INITMYWID 14821,14920
//
//Configuration Driver 151
//
151 INITIPADDR 192.168.91.4
151 INITIISADDR 192.168.2.1
151 INITIISPORT 80
151 INITBROWSERS 1000
151 INITMYWID 14921,15020
//
//Configuration Driver 152
//
152 INITIPADDR 192.168.91.4
152 INITIISADDR 192.168.2.1
152 INITIISPORT 80
152 INITBROWSERS 1000
152 INITMYWID 15021,15120
//
//Configuration Driver 153
//
153 INITIPADDR 192.168.91.4
153 INITIISADDR 192.168.2.1
153 INITIISPORT 80
153 INITBROWSERS 1000
153 INITMYWID 15121,15220
//
//Configuration Driver 154
//
154 INITIPADDR 192.168.91.4
154 INITIISADDR 192.168.2.1
154 INITIISPORT 80
154 INITBROWSERS 1000
154 INITMYWID 15221,15320
//
//Configuration Driver 155
//
155 INITIPADDR 192.168.91.4
155 INITIISADDR 192.168.2.1
155 INITIISPORT 80
155 INITBROWSERS 1000
155 INITMYWID 15321,15420
//
//Configuration Driver 156
//
156 INITIPADDR 192.168.91.4
156 INITIISADDR 192.168.2.1
156 INITIISPORT 80
156 INITBROWSERS 1000
156 INITMYWID 15421,15520
//
//Configuration Driver 157
//
157 INITIPADDR 192.168.91.4
157 INITIISADDR 192.168.2.1
157 INITIISPORT 80
157 INITBROWSERS 1000
157 INITMYWID 15521,15620
//
//Configuration Driver 158
//
158 INITIPADDR 192.168.91.4
158 INITIISADDR 192.168.2.1

```



```
158 INITIISPORT 80
158 INITBROWSERS 1000
158 INITMYWID 15621,15720
//
//Configuration Driver 159
//
159 INITIPADDR 192.168.91.4
159 INITIISADDR 192.168.2.1
159 INITIISPORT 80
159 INITBROWSERS 1000
159 INITMYWID 15721,15820
//
//Configuration Driver 160
//
160 INITIPADDR 192.168.91.4
160 INITIISADDR 192.168.2.1
160 INITIISPORT 80
160 INITBROWSERS 1000
160 INITMYWID 15821,15920
//
//Configuration Driver 161
//
161 INITIPADDR 192.168.91.5
161 INITIISADDR 192.168.3.1
161 INITIISPORT 80
161 INITBROWSERS 1000
161 INITMYWID 15921,16020
//
//Configuration Driver 162
//
162 INITIPADDR 192.168.91.5
162 INITIISADDR 192.168.3.1
162 INITIISPORT 80
162 INITBROWSERS 1000
162 INITMYWID 16021,16120
//
//Configuration Driver 163
//
163 INITIPADDR 192.168.91.5
163 INITIISADDR 192.168.3.1
163 INITIISPORT 80
163 INITBROWSERS 1000
163 INITMYWID 16121,16220
//
//Configuration Driver 164
//
164 INITIPADDR 192.168.91.5
164 INITIISADDR 192.168.3.1
164 INITIISPORT 80
164 INITBROWSERS 1000
164 INITMYWID 16221,16320
//
//Configuration Driver 165
//
165 INITIPADDR 192.168.91.5
165 INITIISADDR 192.168.3.1
165 INITIISPORT 80
165 INITBROWSERS 1000
165 INITMYWID 16321,16420
//
//Configuration Driver 166
//
166 INITIPADDR 192.168.91.5
166 INITIISADDR 192.168.3.1
166 INITIISPORT 80
166 INITBROWSERS 1000
```

```
166 INITMYWID 16421,16520
//
//Configuration Driver 167
//
167 INITIPADDR 192.168.91.5
167 INITIISADDR 192.168.3.1
167 INITIISPORT 80
167 INITBROWSERS 1000
167 INITMYWID 16521,16620
//
//Configuration Driver 168
//
168 INITIPADDR 192.168.91.5
168 INITIISADDR 192.168.3.1
168 INITIISPORT 80
168 INITBROWSERS 1000
168 INITMYWID 16621,16720
//
//Configuration Driver 169
//
169 INITIPADDR 192.168.91.5
169 INITIISADDR 192.168.3.1
169 INITIISPORT 80
169 INITBROWSERS 1000
169 INITMYWID 16721,16820
//
//Configuration Driver 170
//
170 INITIPADDR 192.168.91.5
170 INITIISADDR 192.168.3.1
170 INITIISPORT 80
170 INITBROWSERS 1000
170 INITMYWID 16821,16920
//
//Configuration Driver 171
//
171 INITIPADDR 192.168.91.5
171 INITIISADDR 192.168.3.1
171 INITIISPORT 80
171 INITBROWSERS 1000
171 INITMYWID 16921,17020
//
//Configuration Driver 172
//
172 INITIPADDR 192.168.91.5
172 INITIISADDR 192.168.3.1
172 INITIISPORT 80
172 INITBROWSERS 1000
172 INITMYWID 17021,17120
//
//Configuration Driver 173
//
173 INITIPADDR 192.168.91.5
173 INITIISADDR 192.168.3.1
173 INITIISPORT 80
173 INITBROWSERS 1000
173 INITMYWID 17121,17220
//
//Configuration Driver 174
//
174 INITIPADDR 192.168.91.5
174 INITIISADDR 192.168.3.1
174 INITIISPORT 80
174 INITBROWSERS 1000
174 INITMYWID 17221,17320
//
```

```

//Configuration Driver 175
//
175 INITIPADDR 192.168.91.5
175 INITIISADDR 192.168.3.1
175 INITIISPORT 80
175 INITBROWSERS 1000
175 INITMYWID 17321,17420
//
//Configuration Driver 176
//
176 INITIPADDR 192.168.91.5
176 INITIISADDR 192.168.3.1
176 INITIISPORT 80
176 INITBROWSERS 1000
176 INITMYWID 17421,17520
//
//Configuration Driver 177
//
177 INITIPADDR 192.168.91.5
177 INITIISADDR 192.168.3.1
177 INITIISPORT 80
177 INITBROWSERS 1000
177 INITMYWID 17521,17620
//
//Configuration Driver 178
//
178 INITIPADDR 192.168.91.5
178 INITIISADDR 192.168.3.1
178 INITIISPORT 80
178 INITBROWSERS 1000
178 INITMYWID 17621,17720
//
//Configuration Driver 179
//
179 INITIPADDR 192.168.91.5
179 INITIISADDR 192.168.3.1
179 INITIISPORT 80
179 INITBROWSERS 1000
179 INITMYWID 17721,17820
//
//Configuration Driver 180
//
180 INITIPADDR 192.168.91.5
180 INITIISADDR 192.168.3.1
180 INITIISPORT 80
180 INITBROWSERS 1000
180 INITMYWID 17821,17920
//
//Configuration Driver 181
//
181 INITIPADDR 192.168.91.5
181 INITIISADDR 192.168.3.1
181 INITIISPORT 80
181 INITBROWSERS 1000
181 INITMYWID 17921,18020
//
//Configuration Driver 182
//
182 INITIPADDR 192.168.91.5
182 INITIISADDR 192.168.3.1
182 INITIISPORT 80
182 INITBROWSERS 1000
182 INITMYWID 18021,18120
//
//Configuration Driver 183
//

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183 INITIPADDR 192.168.91.5
183 INITIISADDR 192.168.3.1
183 INITIISPORT 80
183 INITBROWSERS 1000
183 INITMYWID 18121,18220
//
//Configuration Driver 184
//
184 INITIPADDR 192.168.91.5
184 INITIISADDR 192.168.3.1
184 INITIISPORT 80
184 INITBROWSERS 1000
184 INITMYWID 18221,18320
//
//Configuration Driver 185
//
185 INITIPADDR 192.168.91.5
185 INITIISADDR 192.168.3.1
185 INITIISPORT 80
185 INITBROWSERS 1000
185 INITMYWID 18321,18420
//
//Configuration Driver 186
//
186 INITIPADDR 192.168.91.5
186 INITIISADDR 192.168.3.1
186 INITIISPORT 80
186 INITBROWSERS 1000
186 INITMYWID 18421,18520
//
//Configuration Driver 187
//
187 INITIPADDR 192.168.91.5
187 INITIISADDR 192.168.3.1
187 INITIISPORT 80
187 INITBROWSERS 1000
187 INITMYWID 18521,18620
//
//Configuration Driver 188
//
188 INITIPADDR 192.168.91.5
188 INITIISADDR 192.168.3.1
188 INITIISPORT 80
188 INITBROWSERS 1000
188 INITMYWID 18621,18720
//
//Configuration Driver 189
//
189 INITIPADDR 192.168.91.5
189 INITIISADDR 192.168.3.1
189 INITIISPORT 80
189 INITBROWSERS 1000
189 INITMYWID 18721,18820
//
//Configuration Driver 190
//
190 INITIPADDR 192.168.91.5
190 INITIISADDR 192.168.3.1
190 INITIISPORT 80
190 INITBROWSERS 1000
190 INITMYWID 18821,18920
//
//Configuration Driver 191
//
191 INITIPADDR 192.168.91.5
191 INITIISADDR 192.168.3.1

```

```

191 INITIISPORT 80
191 INITBROWSERS 1000
191 INITMYWID 18921,19020
//Configuration Driver 192
//
192 INITIPADDR 192.168.91.5
192 INITIISADDR 192.168.3.1
192 INITIISPORT 80
192 INITBROWSERS 1000
192 INITMYWID 19021,19120
//Configuration Driver 193
//
193 INITIPADDR 192.168.91.5
193 INITIISADDR 192.168.3.1
193 INITIISPORT 80
193 INITBROWSERS 1000
193 INITMYWID 19121,19220
//Configuration Driver 194
//
194 INITIPADDR 192.168.91.5
194 INITIISADDR 192.168.3.1
194 INITIISPORT 80
194 INITBROWSERS 1000
194 INITMYWID 19221,19320
//Configuration Driver 195
//
195 INITIPADDR 192.168.91.5
195 INITIISADDR 192.168.3.1
195 INITIISPORT 80
195 INITBROWSERS 1000
195 INITMYWID 19321,19420
//Configuration Driver 196
//
196 INITIPADDR 192.168.91.5
196 INITIISADDR 192.168.3.1
196 INITIISPORT 80
196 INITBROWSERS 1000
196 INITMYWID 19421,19520
//Configuration Driver 197
//
197 INITIPADDR 192.168.91.5
197 INITIISADDR 192.168.3.1
197 INITIISPORT 80
197 INITBROWSERS 1000
197 INITMYWID 19521,19620
//Configuration Driver 198
//
198 INITIPADDR 192.168.91.5
198 INITIISADDR 192.168.3.1
198 INITIISPORT 80
198 INITBROWSERS 1000
198 INITMYWID 19621,19720
//Configuration Driver 199
//
199 INITIPADDR 192.168.91.5
199 INITIISADDR 192.168.3.1
199 INITIISPORT 80
199 INITBROWSERS 1000

```

```

199 INITMYWID 19721,19820
//
//Configuration Driver 200
200 INITIPADDR 192.168.91.5
200 INITIISADDR 192.168.3.1
200 INITIISPORT 80
200 INITBROWSERS 1000
200 INITMYWID 19821,19920
//Configuration Driver 201
//
201 INITIPADDR 192.168.91.6
201 INITIISADDR 192.168.3.1
201 INITIISPORT 80
201 INITBROWSERS 1000
201 INITMYWID 19921,20020
//Configuration Driver 202
//
202 INITIPADDR 192.168.91.6
202 INITIISADDR 192.168.3.1
202 INITIISPORT 80
202 INITBROWSERS 1000
202 INITMYWID 20021,20120
//Configuration Driver 203
//
203 INITIPADDR 192.168.91.6
203 INITIISADDR 192.168.3.1
203 INITIISPORT 80
203 INITBROWSERS 1000
203 INITMYWID 20121,20220
//Configuration Driver 204
//
204 INITIPADDR 192.168.91.6
204 INITIISADDR 192.168.3.1
204 INITIISPORT 80
204 INITBROWSERS 1000
204 INITMYWID 20221,20320
//Configuration Driver 205
//
205 INITIPADDR 192.168.91.6
205 INITIISADDR 192.168.3.1
205 INITIISPORT 80
205 INITBROWSERS 1000
205 INITMYWID 20321,20420
//Configuration Driver 206
//
206 INITIPADDR 192.168.91.6
206 INITIISADDR 192.168.3.1
206 INITIISPORT 80
206 INITBROWSERS 1000
206 INITMYWID 20421,20520
//Configuration Driver 207
//
207 INITIPADDR 192.168.91.6
207 INITIISADDR 192.168.3.1
207 INITIISPORT 80
207 INITBROWSERS 1000
207 INITMYWID 20521,20620
//

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//Configuration Driver 208
//
208 INITIPADDR 192.168.91.6
208 INITIISADDR 192.168.3.1
208 INITIISPORT 80
208 INITBROWSERS 1000
208 INITMYWID 20621,20720
//
//Configuration Driver 209
//
209 INITIPADDR 192.168.91.6
209 INITIISADDR 192.168.3.1
209 INITIISPORT 80
209 INITBROWSERS 1000
209 INITMYWID 20721,20820
//
//Configuration Driver 210
//
210 INITIPADDR 192.168.91.6
210 INITIISADDR 192.168.3.1
210 INITIISPORT 80
210 INITBROWSERS 1000
210 INITMYWID 20821,20920
//
//Configuration Driver 211
//
211 INITIPADDR 192.168.91.6
211 INITIISADDR 192.168.3.1
211 INITIISPORT 80
211 INITBROWSERS 1000
211 INITMYWID 20921,21020
//
//Configuration Driver 212
//
212 INITIPADDR 192.168.91.6
212 INITIISADDR 192.168.3.1
212 INITIISPORT 80
212 INITBROWSERS 1000
212 INITMYWID 21021,21120
//
//Configuration Driver 213
//
213 INITIPADDR 192.168.91.6
213 INITIISADDR 192.168.3.1
213 INITIISPORT 80
213 INITBROWSERS 1000
213 INITMYWID 21121,21220
//
//Configuration Driver 214
//
214 INITIPADDR 192.168.91.6
214 INITIISADDR 192.168.3.1
214 INITIISPORT 80
214 INITBROWSERS 1000
214 INITMYWID 21221,21320
//
//Configuration Driver 215
//
215 INITIPADDR 192.168.91.6
215 INITIISADDR 192.168.3.1
215 INITIISPORT 80
215 INITBROWSERS 1000
215 INITMYWID 21321,21420
//
//Configuration Driver 216
//

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216 INITIPADDR 192.168.91.6
216 INITIISADDR 192.168.3.1
216 INITIISPORT 80
216 INITBROWSERS 1000
216 INITMYWID 21421,21520
//
//Configuration Driver 217
//
217 INITIPADDR 192.168.91.6
217 INITIISADDR 192.168.3.1
217 INITIISPORT 80
217 INITBROWSERS 1000
217 INITMYWID 21521,21620
//
//Configuration Driver 218
//
218 INITIPADDR 192.168.91.6
218 INITIISADDR 192.168.3.1
218 INITIISPORT 80
218 INITBROWSERS 1000
218 INITMYWID 21621,21720
//
//Configuration Driver 219
//
219 INITIPADDR 192.168.91.6
219 INITIISADDR 192.168.3.1
219 INITIISPORT 80
219 INITBROWSERS 1000
219 INITMYWID 21721,21820
//
//Configuration Driver 220
//
220 INITIPADDR 192.168.91.6
220 INITIISADDR 192.168.3.1
220 INITIISPORT 80
220 INITBROWSERS 1000
220 INITMYWID 21821,21920
//
//Configuration Driver 221
//
221 INITIPADDR 192.168.91.6
221 INITIISADDR 192.168.3.1
221 INITIISPORT 80
221 INITBROWSERS 1000
221 INITMYWID 21921,22020
//
//Configuration Driver 222
//
222 INITIPADDR 192.168.91.6
222 INITIISADDR 192.168.3.1
222 INITIISPORT 80
222 INITBROWSERS 1000
222 INITMYWID 22021,22120
//
//Configuration Driver 223
//
223 INITIPADDR 192.168.91.6
223 INITIISADDR 192.168.3.1
223 INITIISPORT 80
223 INITBROWSERS 1000
223 INITMYWID 22121,22220
//
//Configuration Driver 224
//
224 INITIPADDR 192.168.91.6
224 INITIISADDR 192.168.3.1

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224 INITIISPORT 80
224 INITBROWSERS 1000
224 INITMYWID 22221,22320
//Configuration Driver 225
//
225 INITIPADDR 192.168.91.6
225 INITIISADDR 192.168.3.1
225 INITIISPORT 80
225 INITBROWSERS 1000
225 INITMYWID 22321,22420
//Configuration Driver 226
//
226 INITIPADDR 192.168.91.6
226 INITIISADDR 192.168.3.1
226 INITIISPORT 80
226 INITBROWSERS 1000
226 INITMYWID 22421,22520
//Configuration Driver 227
//
227 INITIPADDR 192.168.91.6
227 INITIISADDR 192.168.3.1
227 INITIISPORT 80
227 INITBROWSERS 1000
227 INITMYWID 22521,22620
//Configuration Driver 228
//
228 INITIPADDR 192.168.91.6
228 INITIISADDR 192.168.3.1
228 INITIISPORT 80
228 INITBROWSERS 1000
228 INITMYWID 22621,22720
//Configuration Driver 229
//
229 INITIPADDR 192.168.91.6
229 INITIISADDR 192.168.3.1
229 INITIISPORT 80
229 INITBROWSERS 1000
229 INITMYWID 22721,22820
//Configuration Driver 230
//
230 INITIPADDR 192.168.91.6
230 INITIISADDR 192.168.3.1
230 INITIISPORT 80
230 INITBROWSERS 1000
230 INITMYWID 22821,22920
//Configuration Driver 231
//
231 INITIPADDR 192.168.91.6
231 INITIISADDR 192.168.3.1
231 INITIISPORT 80
231 INITBROWSERS 1000
231 INITMYWID 22921,23020
//Configuration Driver 232
//
232 INITIPADDR 192.168.91.6
232 INITIISADDR 192.168.3.1
232 INITIISPORT 80
232 INITBROWSERS 1000

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232 INITMYWID 23021,23120
//
//Configuration Driver 233
233 INITIPADDR 192.168.91.6
233 INITIISADDR 192.168.3.1
233 INITIISPORT 80
233 INITBROWSERS 1000
233 INITMYWID 23121,23220
//Configuration Driver 234
//
234 INITIPADDR 192.168.91.6
234 INITIISADDR 192.168.3.1
234 INITIISPORT 80
234 INITBROWSERS 1000
234 INITMYWID 23221,23320
//Configuration Driver 235
//
235 INITIPADDR 192.168.91.6
235 INITIISADDR 192.168.3.1
235 INITIISPORT 80
235 INITBROWSERS 1000
235 INITMYWID 23321,23420
//Configuration Driver 236
//
236 INITIPADDR 192.168.91.6
236 INITIISADDR 192.168.3.1
236 INITIISPORT 80
236 INITBROWSERS 1000
236 INITMYWID 23421,23520
//Configuration Driver 237
//
237 INITIPADDR 192.168.91.6
237 INITIISADDR 192.168.3.1
237 INITIISPORT 80
237 INITBROWSERS 1000
237 INITMYWID 23521,23620
//Configuration Driver 238
//
238 INITIPADDR 192.168.91.6
238 INITIISADDR 192.168.3.1
238 INITIISPORT 80
238 INITBROWSERS 1000
238 INITMYWID 23621,23720
//Configuration Driver 239
//
239 INITIPADDR 192.168.91.6
239 INITIISADDR 192.168.3.1
239 INITIISPORT 80
239 INITBROWSERS 1000
239 INITMYWID 23721,23820
//Configuration Driver 240
//
240 INITIPADDR 192.168.91.6
240 INITIISADDR 192.168.3.1
240 INITIISPORT 80
240 INITBROWSERS 1000
240 INITMYWID 23821,23920
//

```

```

//Configuration Driver 241
//
241 INITIPADDR 192.168.91.7
241 INITIISADDR 192.168.4.1
241 INITIISPORT 80
241 INITBROWSERS 1000
241 INITMYWID 23921,24020
//
//Configuration Driver 242
//
242 INITIPADDR 192.168.91.7
242 INITIISADDR 192.168.4.1
242 INITIISPORT 80
242 INITBROWSERS 1000
242 INITMYWID 24021,24120
//
//Configuration Driver 243
//
243 INITIPADDR 192.168.91.7
243 INITIISADDR 192.168.4.1
243 INITIISPORT 80
243 INITBROWSERS 1000
243 INITMYWID 24121,24220
//
//Configuration Driver 244
//
244 INITIPADDR 192.168.91.7
244 INITIISADDR 192.168.4.1
244 INITIISPORT 80
244 INITBROWSERS 1000
244 INITMYWID 24221,24320
//
//Configuration Driver 245
//
245 INITIPADDR 192.168.91.7
245 INITIISADDR 192.168.4.1
245 INITIISPORT 80
245 INITBROWSERS 1000
245 INITMYWID 24321,24420
//
//Configuration Driver 246
//
246 INITIPADDR 192.168.91.7
246 INITIISADDR 192.168.4.1
246 INITIISPORT 80
246 INITBROWSERS 1000
246 INITMYWID 24421,24520
//
//Configuration Driver 247
//
247 INITIPADDR 192.168.91.7
247 INITIISADDR 192.168.4.1
247 INITIISPORT 80
247 INITBROWSERS 1000
247 INITMYWID 24521,24620
//
//Configuration Driver 248
//
248 INITIPADDR 192.168.91.7
248 INITIISADDR 192.168.4.1
248 INITIISPORT 80
248 INITBROWSERS 1000
248 INITMYWID 24621,24720
//
//Configuration Driver 249
//

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249 INITIPADDR 192.168.91.7
249 INITIISADDR 192.168.4.1
249 INITIISPORT 80
249 INITBROWSERS 1000
249 INITMYWID 24721,24820
//
//Configuration Driver 250
//
250 INITIPADDR 192.168.91.7
250 INITIISADDR 192.168.4.1
250 INITIISPORT 80
250 INITBROWSERS 1000
250 INITMYWID 24821,24920
//
//Configuration Driver 251
//
251 INITIPADDR 192.168.91.7
251 INITIISADDR 192.168.4.1
251 INITIISPORT 80
251 INITBROWSERS 1000
251 INITMYWID 24921,25020
//
//Configuration Driver 252
//
252 INITIPADDR 192.168.91.7
252 INITIISADDR 192.168.4.1
252 INITIISPORT 80
252 INITBROWSERS 1000
252 INITMYWID 25021,25120
//
//Configuration Driver 253
//
253 INITIPADDR 192.168.91.7
253 INITIISADDR 192.168.4.1
253 INITIISPORT 80
253 INITBROWSERS 1000
253 INITMYWID 25121,25220
//
//Configuration Driver 254
//
254 INITIPADDR 192.168.91.7
254 INITIISADDR 192.168.4.1
254 INITIISPORT 80
254 INITBROWSERS 1000
254 INITMYWID 25221,25320
//
//Configuration Driver 255
//
255 INITIPADDR 192.168.91.7
255 INITIISADDR 192.168.4.1
255 INITIISPORT 80
255 INITBROWSERS 1000
255 INITMYWID 25321,25420
//
//Configuration Driver 256
//
256 INITIPADDR 192.168.91.7
256 INITIISADDR 192.168.4.1
256 INITIISPORT 80
256 INITBROWSERS 1000
256 INITMYWID 25421,25520
//
//Configuration Driver 257
//
257 INITIPADDR 192.168.91.7
257 INITIISADDR 192.168.4.1

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257 INITIISPORT 80
257 INITBROWSERS 1000
257 INITMYWID 25521,25620
//
//Configuration Driver 258
//
258 INITIPADDR 192.168.91.7
258 INITIISADDR 192.168.4.1
258 INITIISPORT 80
258 INITBROWSERS 1000
258 INITMYWID 25621,25720
//
//Configuration Driver 259
//
259 INITIPADDR 192.168.91.7
259 INITIISADDR 192.168.4.1
259 INITIISPORT 80
259 INITBROWSERS 1000
259 INITMYWID 25721,25820
//
//Configuration Driver 260
//
260 INITIPADDR 192.168.91.7
260 INITIISADDR 192.168.4.1
260 INITIISPORT 80
260 INITBROWSERS 1000
260 INITMYWID 25821,25920
//
//Configuration Driver 261
//
261 INITIPADDR 192.168.91.7
261 INITIISADDR 192.168.4.1
261 INITIISPORT 80
261 INITBROWSERS 1000
261 INITMYWID 25921,26020
//
//Configuration Driver 262
//
262 INITIPADDR 192.168.91.7
262 INITIISADDR 192.168.4.1
262 INITIISPORT 80
262 INITBROWSERS 1000
262 INITMYWID 26021,26120
//
//Configuration Driver 263
//
263 INITIPADDR 192.168.91.7
263 INITIISADDR 192.168.4.1
263 INITIISPORT 80
263 INITBROWSERS 1000
263 INITMYWID 26121,26220
//
//Configuration Driver 264
//
264 INITIPADDR 192.168.91.7
264 INITIISADDR 192.168.4.1
264 INITIISPORT 80
264 INITBROWSERS 1000
264 INITMYWID 26221,26320
//
//Configuration Driver 265
//
265 INITIPADDR 192.168.91.7
265 INITIISADDR 192.168.4.1
265 INITIISPORT 80
265 INITBROWSERS 1000

```

```

265 INITMYWID 26321,26420
//
//Configuration Driver 266
//
266 INITIPADDR 192.168.91.7
266 INITIISADDR 192.168.4.1
266 INITIISPORT 80
266 INITBROWSERS 1000
266 INITMYWID 26421,26520
//
//Configuration Driver 267
//
267 INITIPADDR 192.168.91.7
267 INITIISADDR 192.168.4.1
267 INITIISPORT 80
267 INITBROWSERS 1000
267 INITMYWID 26521,26620
//
//Configuration Driver 268
//
268 INITIPADDR 192.168.91.7
268 INITIISADDR 192.168.4.1
268 INITIISPORT 80
268 INITBROWSERS 1000
268 INITMYWID 26621,26720
//
//Configuration Driver 269
//
269 INITIPADDR 192.168.91.7
269 INITIISADDR 192.168.4.1
269 INITIISPORT 80
269 INITBROWSERS 1000
269 INITMYWID 26721,26820
//
//Configuration Driver 270
//
270 INITIPADDR 192.168.91.7
270 INITIISADDR 192.168.4.1
270 INITIISPORT 80
270 INITBROWSERS 1000
270 INITMYWID 26821,26920
//
//Configuration Driver 271
//
271 INITIPADDR 192.168.91.7
271 INITIISADDR 192.168.4.1
271 INITIISPORT 80
271 INITBROWSERS 1000
271 INITMYWID 26921,27020
//
//Configuration Driver 272
//
272 INITIPADDR 192.168.91.7
272 INITIISADDR 192.168.4.1
272 INITIISPORT 80
272 INITBROWSERS 1000
272 INITMYWID 27021,27120
//
//Configuration Driver 273
//
273 INITIPADDR 192.168.91.7
273 INITIISADDR 192.168.4.1
273 INITIISPORT 80
273 INITBROWSERS 1000
273 INITMYWID 27121,27220
//

```

```

//Configuration Driver 274
//
274 INITIPADDR 192.168.91.7
274 INITIISADDR 192.168.4.1
274 INITIISPORT 80
274 INITBROWSERS 1000
274 INITMYWID 27221,27320
//
//Configuration Driver 275
//
275 INITIPADDR 192.168.91.7
275 INITIISADDR 192.168.4.1
275 INITIISPORT 80
275 INITBROWSERS 1000
275 INITMYWID 27321,27420
//
//Configuration Driver 276
//
276 INITIPADDR 192.168.91.7
276 INITIISADDR 192.168.4.1
276 INITIISPORT 80
276 INITBROWSERS 1000
276 INITMYWID 27421,27520
//
//Configuration Driver 277
//
277 INITIPADDR 192.168.91.7
277 INITIISADDR 192.168.4.1
277 INITIISPORT 80
277 INITBROWSERS 1000
277 INITMYWID 27521,27620
//
//Configuration Driver 278
//
278 INITIPADDR 192.168.91.7
278 INITIISADDR 192.168.4.1
278 INITIISPORT 80
278 INITBROWSERS 1000
278 INITMYWID 27621,27720
//
//Configuration Driver 279
//
279 INITIPADDR 192.168.91.7
279 INITIISADDR 192.168.4.1
279 INITIISPORT 80
279 INITBROWSERS 1000
279 INITMYWID 27721,27820
//
//Configuration Driver 280
//
280 INITIPADDR 192.168.91.7
280 INITIISADDR 192.168.4.1
280 INITIISPORT 80
280 INITBROWSERS 1000
280 INITMYWID 27821,27920
//
//Configuration Driver 281
//
281 INITIPADDR 192.168.91.8
281 INITIISADDR 192.168.4.1
281 INITIISPORT 80
281 INITBROWSERS 1000
281 INITMYWID 27921,28020
//
//Configuration Driver 282
//

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282 INITIPADDR 192.168.91.8
282 INITIISADDR 192.168.4.1
282 INITIISPORT 80
282 INITBROWSERS 1000
282 INITMYWID 28021,28120
//
//Configuration Driver 283
//
283 INITIPADDR 192.168.91.8
283 INITIISADDR 192.168.4.1
283 INITIISPORT 80
283 INITBROWSERS 1000
283 INITMYWID 28121,28220
//
//Configuration Driver 284
//
284 INITIPADDR 192.168.91.8
284 INITIISADDR 192.168.4.1
284 INITIISPORT 80
284 INITBROWSERS 1000
284 INITMYWID 28221,28320
//
//Configuration Driver 285
//
285 INITIPADDR 192.168.91.8
285 INITIISADDR 192.168.4.1
285 INITIISPORT 80
285 INITBROWSERS 1000
285 INITMYWID 28321,28420
//
//Configuration Driver 286
//
286 INITIPADDR 192.168.91.8
286 INITIISADDR 192.168.4.1
286 INITIISPORT 80
286 INITBROWSERS 1000
286 INITMYWID 28421,28520
//
//Configuration Driver 287
//
287 INITIPADDR 192.168.91.8
287 INITIISADDR 192.168.4.1
287 INITIISPORT 80
287 INITBROWSERS 1000
287 INITMYWID 28521,28620
//
//Configuration Driver 288
//
288 INITIPADDR 192.168.91.8
288 INITIISADDR 192.168.4.1
288 INITIISPORT 80
288 INITBROWSERS 1000
288 INITMYWID 28621,28720
//
//Configuration Driver 289
//
289 INITIPADDR 192.168.91.8
289 INITIISADDR 192.168.4.1
289 INITIISPORT 80
289 INITBROWSERS 1000
289 INITMYWID 28721,28820
//
//Configuration Driver 290
//
290 INITIPADDR 192.168.91.8
290 INITIISADDR 192.168.4.1

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290 INITIISPORT 80
290 INITBROWSERS 1000
290 INITMYWID 28821,28920
//
//Configuration Driver 291
//
291 INITIPADDR 192.168.91.8
291 INITIISADDR 192.168.4.1
291 INITIISPORT 80
291 INITBROWSERS 1000
291 INITMYWID 28921,29020
//
//Configuration Driver 292
//
292 INITIPADDR 192.168.91.8
292 INITIISADDR 192.168.4.1
292 INITIISPORT 80
292 INITBROWSERS 1000
292 INITMYWID 29021,29120
//
//Configuration Driver 293
//
293 INITIPADDR 192.168.91.8
293 INITIISADDR 192.168.4.1
293 INITIISPORT 80
293 INITBROWSERS 1000
293 INITMYWID 29121,29220
//
//Configuration Driver 294
//
294 INITIPADDR 192.168.91.8
294 INITIISADDR 192.168.4.1
294 INITIISPORT 80
294 INITBROWSERS 1000
294 INITMYWID 29221,29320
//
//Configuration Driver 295
//
295 INITIPADDR 192.168.91.8
295 INITIISADDR 192.168.4.1
295 INITIISPORT 80
295 INITBROWSERS 1000
295 INITMYWID 29321,29420
//
//Configuration Driver 296
//
296 INITIPADDR 192.168.91.8
296 INITIISADDR 192.168.4.1
296 INITIISPORT 80
296 INITBROWSERS 1000
296 INITMYWID 29421,29520
//
//Configuration Driver 297
//
297 INITIPADDR 192.168.91.8
297 INITIISADDR 192.168.4.1
297 INITIISPORT 80
297 INITBROWSERS 1000
297 INITMYWID 29521,29620
//
//Configuration Driver 298
//
298 INITIPADDR 192.168.91.8
298 INITIISADDR 192.168.4.1
298 INITIISPORT 80
298 INITBROWSERS 1000

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```

298 INITMYWID 29621,29720
//
//Configuration Driver 299
//
299 INITIPADDR 192.168.91.8
299 INITIISADDR 192.168.4.1
299 INITIISPORT 80
299 INITBROWSERS 1000
299 INITMYWID 29721,29820
//
//Configuration Driver 300
//
300 INITIPADDR 192.168.91.8
300 INITIISADDR 192.168.4.1
300 INITIISPORT 80
300 INITBROWSERS 1000
300 INITMYWID 29821,29920
//
//Configuration Driver 301
//
301 INITIPADDR 192.168.91.8
301 INITIISADDR 192.168.4.1
301 INITIISPORT 80
301 INITBROWSERS 1000
301 INITMYWID 29921,30020
//
//Configuration Driver 302
//
302 INITIPADDR 192.168.91.8
302 INITIISADDR 192.168.4.1
302 INITIISPORT 80
302 INITBROWSERS 1000
302 INITMYWID 30021,30120
//
//Configuration Driver 303
//
303 INITIPADDR 192.168.91.8
303 INITIISADDR 192.168.4.1
303 INITIISPORT 80
303 INITBROWSERS 1000
303 INITMYWID 30121,30220
//
//Configuration Driver 304
//
304 INITIPADDR 192.168.91.8
304 INITIISADDR 192.168.4.1
304 INITIISPORT 80
304 INITBROWSERS 1000
304 INITMYWID 30221,30320
//
//Configuration Driver 305
//
305 INITIPADDR 192.168.91.8
305 INITIISADDR 192.168.4.1
305 INITIISPORT 80
305 INITBROWSERS 1000
305 INITMYWID 30321,30420
//
//Configuration Driver 306
//
306 INITIPADDR 192.168.91.8
306 INITIISADDR 192.168.4.1
306 INITIISPORT 80
306 INITBROWSERS 1000
306 INITMYWID 30421,30520
//

```

```

//Configuration Driver 307
//
307 INITIPADDR 192.168.91.8
307 INITIISADDR 192.168.4.1
307 INITIISPORT 80
307 INITBROWSERS 1000
307 INITMYWID 30521,30620
//
//Configuration Driver 308
//
308 INITIPADDR 192.168.91.8
308 INITIISADDR 192.168.4.1
308 INITIISPORT 80
308 INITBROWSERS 1000
308 INITMYWID 30621,30720
//
//Configuration Driver 309
//
309 INITIPADDR 192.168.91.8
309 INITIISADDR 192.168.4.1
309 INITIISPORT 80
309 INITBROWSERS 1000
309 INITMYWID 30721,30820
//
//Configuration Driver 310
//
310 INITIPADDR 192.168.91.8
310 INITIISADDR 192.168.4.1
310 INITIISPORT 80
310 INITBROWSERS 1000
310 INITMYWID 30821,30920
//
//Configuration Driver 311
//
311 INITIPADDR 192.168.91.8
311 INITIISADDR 192.168.4.1
311 INITIISPORT 80
311 INITBROWSERS 1000
311 INITMYWID 30921,31020
//
//Configuration Driver 312
//
312 INITIPADDR 192.168.91.8
312 INITIISADDR 192.168.4.1
312 INITIISPORT 80
312 INITBROWSERS 1000
312 INITMYWID 31021,31120
//
//Configuration Driver 313
//
313 INITIPADDR 192.168.91.8
313 INITIISADDR 192.168.4.1
313 INITIISPORT 80
313 INITBROWSERS 1000
313 INITMYWID 31121,31220
//
//Configuration Driver 314
//
314 INITIPADDR 192.168.91.8
314 INITIISADDR 192.168.4.1
314 INITIISPORT 80
314 INITBROWSERS 1000
314 INITMYWID 31221,31320
//
//Configuration Driver 315
//

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315 INITIPADDR 192.168.91.8
315 INITIISADDR 192.168.4.1
315 INITIISPORT 80
315 INITBROWSERS 1000
315 INITMYWID 31321,31420
//
//Configuration Driver 316
//
316 INITIPADDR 192.168.91.8
316 INITIISADDR 192.168.4.1
316 INITIISPORT 80
316 INITBROWSERS 1000
316 INITMYWID 31421,31520
//
//Configuration Driver 317
//
317 INITIPADDR 192.168.91.8
317 INITIISADDR 192.168.4.1
317 INITIISPORT 80
317 INITBROWSERS 1000
317 INITMYWID 31521,31620
//
//Configuration Driver 318
//
318 INITIPADDR 192.168.91.8
318 INITIISADDR 192.168.4.1
318 INITIISPORT 80
318 INITBROWSERS 1000
318 INITMYWID 31621,31720
//
//Configuration Driver 319
//
319 INITIPADDR 192.168.91.8
319 INITIISADDR 192.168.4.1
319 INITIISPORT 80
319 INITBROWSERS 1000
319 INITMYWID 31721,31820
//
//Configuration Driver 320
//
320 INITIPADDR 192.168.91.8
320 INITIISADDR 192.168.4.1
320 INITIISPORT 80
320 INITBROWSERS 1000
320 INITMYWID 31821,31920
//
//Configuration Driver 321
//
321 INITIPADDR 192.168.91.9
321 INITIISADDR 192.168.5.1
321 INITIISPORT 80
321 INITBROWSERS 590
321 INITMYWID 31921,31979
//
//Configuration Driver 322
//
322 INITIPADDR 192.168.91.9
322 INITIISADDR 192.168.5.1
322 INITIISPORT 80
322 INITBROWSERS 590
322 INITMYWID 31980,32038
//
//Configuration Driver 323
//
323 INITIPADDR 192.168.91.9
323 INITIISADDR 192.168.5.1

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323 INITIISPORT 80
323 INITBROWSERS 590
323 INITMYWID 32039,32097
//Configuration Driver 324
//
324 INITIPADDR 192.168.91.9
324 INITIISADDR 192.168.5.1
324 INITIISPORT 80
324 INITBROWSERS 590
324 INITMYWID 32098,32156
//Configuration Driver 325
//
325 INITIPADDR 192.168.91.9
325 INITIISADDR 192.168.5.1
325 INITIISPORT 80
325 INITBROWSERS 590
325 INITMYWID 32157,32215
//Configuration Driver 326
//
326 INITIPADDR 192.168.91.9
326 INITIISADDR 192.168.5.1
326 INITIISPORT 80
326 INITBROWSERS 590
326 INITMYWID 32216,32274
//Configuration Driver 327
//
327 INITIPADDR 192.168.91.9
327 INITIISADDR 192.168.5.1
327 INITIISPORT 80
327 INITBROWSERS 590
327 INITMYWID 32275,32333
//Configuration Driver 328
//
328 INITIPADDR 192.168.91.9
328 INITIISADDR 192.168.5.1
328 INITIISPORT 80
328 INITBROWSERS 590
328 INITMYWID 32334,32392
//Configuration Driver 329
//
329 INITIPADDR 192.168.91.9
329 INITIISADDR 192.168.5.1
329 INITIISPORT 80
329 INITBROWSERS 590
329 INITMYWID 32393,32451
//Configuration Driver 330
//
330 INITIPADDR 192.168.91.9
330 INITIISADDR 192.168.5.1
330 INITIISPORT 80
330 INITBROWSERS 590
330 INITMYWID 32452,32510
//Configuration Driver 331
//
331 INITIPADDR 192.168.91.9
331 INITIISADDR 192.168.5.1
331 INITIISPORT 80
331 INITBROWSERS 590

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331 INITMYWID 32511,32569
//
//Configuration Driver 332
//
332 INITIPADDR 192.168.91.9
332 INITIISADDR 192.168.5.1
332 INITIISPORT 80
332 INITBROWSERS 590
332 INITMYWID 32570,32628
//Configuration Driver 333
//
333 INITIPADDR 192.168.91.9
333 INITIISADDR 192.168.5.1
333 INITIISPORT 80
333 INITBROWSERS 590
333 INITMYWID 32629,32687
//Configuration Driver 334
//
334 INITIPADDR 192.168.91.9
334 INITIISADDR 192.168.5.1
334 INITIISPORT 80
334 INITBROWSERS 590
334 INITMYWID 32688,32746
//Configuration Driver 335
//
335 INITIPADDR 192.168.91.9
335 INITIISADDR 192.168.5.1
335 INITIISPORT 80
335 INITBROWSERS 590
335 INITMYWID 32747,32805
//Configuration Driver 336
//
336 INITIPADDR 192.168.91.9
336 INITIISADDR 192.168.5.1
336 INITIISPORT 80
336 INITBROWSERS 590
336 INITMYWID 32806,32864
//Configuration Driver 337
//
337 INITIPADDR 192.168.91.9
337 INITIISADDR 192.168.5.1
337 INITIISPORT 80
337 INITBROWSERS 590
337 INITMYWID 32865,32923
//Configuration Driver 338
//
338 INITIPADDR 192.168.91.9
338 INITIISADDR 192.168.5.1
338 INITIISPORT 80
338 INITBROWSERS 590
338 INITMYWID 32924,32982
//Configuration Driver 339
//
339 INITIPADDR 192.168.91.9
339 INITIISADDR 192.168.5.1
339 INITIISPORT 80
339 INITBROWSERS 590
339 INITMYWID 32983,33041
//

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```

//Configuration Driver 340
//
340 INITIPADDR 192.168.91.9
340 INITIISADDR 192.168.5.1
340 INITIISPORT 80
340 INITBROWSERS 590
340 INITMYWID 33042,33100
//
//Configuration Driver 341
//
341 INITIPADDR 192.168.91.9
341 INITIISADDR 192.168.5.1
341 INITIISPORT 80
341 INITBROWSERS 590
341 INITMYWID 33101,33159
//
//Configuration Driver 342
//
342 INITIPADDR 192.168.91.9
342 INITIISADDR 192.168.5.1
342 INITIISPORT 80
342 INITBROWSERS 590
342 INITMYWID 33160,33218
//
//Configuration Driver 343
//
343 INITIPADDR 192.168.91.9
343 INITIISADDR 192.168.5.1
343 INITIISPORT 80
343 INITBROWSERS 590
343 INITMYWID 33219,33277
//
//Configuration Driver 344
//
344 INITIPADDR 192.168.91.9
344 INITIISADDR 192.168.5.1
344 INITIISPORT 80
344 INITBROWSERS 590
344 INITMYWID 33278,33336
//
//Configuration Driver 345
//
345 INITIPADDR 192.168.91.9
345 INITIISADDR 192.168.5.1
345 INITIISPORT 80
345 INITBROWSERS 590
345 INITMYWID 33337,33395
//
//Configuration Driver 346
//
346 INITIPADDR 192.168.91.9
346 INITIISADDR 192.168.5.1
346 INITIISPORT 80
346 INITBROWSERS 590
346 INITMYWID 33396,33454
//
//Configuration Driver 347
//
347 INITIPADDR 192.168.91.9
347 INITIISADDR 192.168.5.1
347 INITIISPORT 80
347 INITBROWSERS 590
347 INITMYWID 33455,33513
//
//Configuration Driver 348
//

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348 INITIPADDR 192.168.91.9
348 INITIISADDR 192.168.5.1
348 INITIISPORT 80
348 INITBROWSERS 590
348 INITMYWID 33514,33572
//
//Configuration Driver 349
//
349 INITIPADDR 192.168.91.9
349 INITIISADDR 192.168.5.1
349 INITIISPORT 80
349 INITBROWSERS 590
349 INITMYWID 33573,33631
//
//Configuration Driver 350
//
350 INITIPADDR 192.168.91.9
350 INITIISADDR 192.168.5.1
350 INITIISPORT 80
350 INITBROWSERS 590
350 INITMYWID 33632,33690
//
//Configuration Driver 351
//
351 INITIPADDR 192.168.91.9
351 INITIISADDR 192.168.5.1
351 INITIISPORT 80
351 INITBROWSERS 590
351 INITMYWID 33691,33749
//
//Configuration Driver 352
//
352 INITIPADDR 192.168.91.9
352 INITIISADDR 192.168.5.1
352 INITIISPORT 80
352 INITBROWSERS 590
352 INITMYWID 33750,33808
//
//Configuration Driver 353
//
353 INITIPADDR 192.168.91.9
353 INITIISADDR 192.168.5.1
353 INITIISPORT 80
353 INITBROWSERS 590
353 INITMYWID 33809,33867
//
//Configuration Driver 354
//
354 INITIPADDR 192.168.91.9
354 INITIISADDR 192.168.5.1
354 INITIISPORT 80
354 INITBROWSERS 590
354 INITMYWID 33868,33926
//
//Configuration Driver 355
//
355 INITIPADDR 192.168.91.9
355 INITIISADDR 192.168.5.1
355 INITIISPORT 80
355 INITBROWSERS 590
355 INITMYWID 33927,33985
//
//Configuration Driver 356
//
356 INITIPADDR 192.168.91.9
356 INITIISADDR 192.168.5.1

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356 INITIISPORT 80
356 INITBROWSERS 590
356 INITMYWID 33986,34044
//
//Configuration Driver 357
//
357 INITIPADDR 192.168.91.9
357 INITIISADDR 192.168.5.1
357 INITIISPORT 80
357 INITBROWSERS 590
357 INITMYWID 34045,34103
//
//Configuration Driver 358
//
358 INITIPADDR 192.168.91.9
358 INITIISADDR 192.168.5.1
358 INITIISPORT 80
358 INITBROWSERS 590
358 INITMYWID 34104,34162
//
//Configuration Driver 359
//
359 INITIPADDR 192.168.91.9
359 INITIISADDR 192.168.5.1
359 INITIISPORT 80
359 INITBROWSERS 590
359 INITMYWID 34163,34221
//
//Configuration Driver 360
//
360 INITIPADDR 192.168.91.9
360 INITIISADDR 192.168.5.1
360 INITIISPORT 80
360 INITBROWSERS 590
360 INITMYWID 34222,34280
//
//Configuration Driver 361
//
361 INITIPADDR 192.168.91.10
361 INITIISADDR 192.168.5.1
361 INITIISPORT 80
361 INITBROWSERS 590
361 INITMYWID 34281,34339
//
//Configuration Driver 362
//
362 INITIPADDR 192.168.91.10
362 INITIISADDR 192.168.5.1
362 INITIISPORT 80
362 INITBROWSERS 590
362 INITMYWID 34340,34398
//
//Configuration Driver 363
//
363 INITIPADDR 192.168.91.10
363 INITIISADDR 192.168.5.1
363 INITIISPORT 80
363 INITBROWSERS 590
363 INITMYWID 34399,34457
//
//Configuration Driver 364
//
364 INITIPADDR 192.168.91.10
364 INITIISADDR 192.168.5.1
364 INITIISPORT 80
364 INITBROWSERS 590

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```

364 INITMYWID 34458,34516
//
//Configuration Driver 365
//
365 INITIPADDR 192.168.91.10
365 INITIISADDR 192.168.5.1
365 INITIISPORT 80
365 INITBROWSERS 590
365 INITMYWID 34517,34575
//
//Configuration Driver 366
//
366 INITIPADDR 192.168.91.10
366 INITIISADDR 192.168.5.1
366 INITIISPORT 80
366 INITBROWSERS 590
366 INITMYWID 34576,34634
//
//Configuration Driver 367
//
367 INITIPADDR 192.168.91.10
367 INITIISADDR 192.168.5.1
367 INITIISPORT 80
367 INITBROWSERS 590
367 INITMYWID 34635,34693
//
//Configuration Driver 368
//
368 INITIPADDR 192.168.91.10
368 INITIISADDR 192.168.5.1
368 INITIISPORT 80
368 INITBROWSERS 590
368 INITMYWID 34694,34752
//
//Configuration Driver 369
//
369 INITIPADDR 192.168.91.10
369 INITIISADDR 192.168.5.1
369 INITIISPORT 80
369 INITBROWSERS 590
369 INITMYWID 34753,34811
//
//Configuration Driver 370
//
370 INITIPADDR 192.168.91.10
370 INITIISADDR 192.168.5.1
370 INITIISPORT 80
370 INITBROWSERS 590
370 INITMYWID 34812,34870
//
//Configuration Driver 371
//
371 INITIPADDR 192.168.91.10
371 INITIISADDR 192.168.5.1
371 INITIISPORT 80
371 INITBROWSERS 590
371 INITMYWID 34871,34929
//
//Configuration Driver 372
//
372 INITIPADDR 192.168.91.10
372 INITIISADDR 192.168.5.1
372 INITIISPORT 80
372 INITBROWSERS 590
372 INITMYWID 34930,34988
//

```

```
//Configuration Driver 373
//
373 INITIPADDR 192.168.91.10
373 INITIISADDR 192.168.5.1
373 INITIISPORT 80
373 INITBROWSERS 590
373 INITMYWID 34989,35047
//
//Configuration Driver 374
//
374 INITIPADDR 192.168.91.10
374 INITIISADDR 192.168.5.1
374 INITIISPORT 80
374 INITBROWSERS 590
374 INITMYWID 35048,35106
//
//Configuration Driver 375
//
375 INITIPADDR 192.168.91.10
375 INITIISADDR 192.168.5.1
375 INITIISPORT 80
375 INITBROWSERS 590
375 INITMYWID 35107,35165
//
//Configuration Driver 376
//
376 INITIPADDR 192.168.91.10
376 INITIISADDR 192.168.5.1
376 INITIISPORT 80
376 INITBROWSERS 590
376 INITMYWID 35166,35224
//
//Configuration Driver 377
//
377 INITIPADDR 192.168.91.10
377 INITIISADDR 192.168.5.1
377 INITIISPORT 80
377 INITBROWSERS 590
377 INITMYWID 35225,35283
//
//Configuration Driver 378
//
378 INITIPADDR 192.168.91.10
378 INITIISADDR 192.168.5.1
378 INITIISPORT 80
378 INITBROWSERS 590
378 INITMYWID 35284,35342
//
//Configuration Driver 379
//
379 INITIPADDR 192.168.91.10
379 INITIISADDR 192.168.5.1
379 INITIISPORT 80
379 INITBROWSERS 590
379 INITMYWID 35343,35401
//
//Configuration Driver 380
//
380 INITIPADDR 192.168.91.10
380 INITIISADDR 192.168.5.1
380 INITIISPORT 80
380 INITBROWSERS 590
380 INITMYWID 35402,35460
//
//Configuration Driver 381
//
```

```
381 INITIPADDR 192.168.91.10
381 INITIISADDR 192.168.5.1
381 INITIISPORT 80
381 INITBROWSERS 590
381 INITMYWID 35461,35519
//
//Configuration Driver 382
//
382 INITIPADDR 192.168.91.10
382 INITIISADDR 192.168.5.1
382 INITIISPORT 80
382 INITBROWSERS 590
382 INITMYWID 35520,35578
//
//Configuration Driver 383
//
383 INITIPADDR 192.168.91.10
383 INITIISADDR 192.168.5.1
383 INITIISPORT 80
383 INITBROWSERS 590
383 INITMYWID 35579,35637
//
//Configuration Driver 384
//
384 INITIPADDR 192.168.91.10
384 INITIISADDR 192.168.5.1
384 INITIISPORT 80
384 INITBROWSERS 590
384 INITMYWID 35638,35696
//
//Configuration Driver 385
//
385 INITIPADDR 192.168.91.10
385 INITIISADDR 192.168.5.1
385 INITIISPORT 80
385 INITBROWSERS 590
385 INITMYWID 35697,35755
//
//Configuration Driver 386
//
386 INITIPADDR 192.168.91.10
386 INITIISADDR 192.168.5.1
386 INITIISPORT 80
386 INITBROWSERS 590
386 INITMYWID 35756,35814
//
//Configuration Driver 387
//
387 INITIPADDR 192.168.91.10
387 INITIISADDR 192.168.5.1
387 INITIISPORT 80
387 INITBROWSERS 590
387 INITMYWID 35815,35873
//
//Configuration Driver 388
//
388 INITIPADDR 192.168.91.10
388 INITIISADDR 192.168.5.1
388 INITIISPORT 80
388 INITBROWSERS 590
388 INITMYWID 35874,35932
//
//Configuration Driver 389
//
389 INITIPADDR 192.168.91.10
389 INITIISADDR 192.168.5.1
```

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389 INITIISPORT 80
389 INITBROWSERS 590
389 INITMYWID 35933,35991
//Configuration Driver 390
//
390 INITIPADDR 192.168.91.10
390 INITIISADDR 192.168.5.1
390 INITIISPORT 80
390 INITBROWSERS 590
390 INITMYWID 35992,36050
//Configuration Driver 391
//
391 INITIPADDR 192.168.91.10
391 INITIISADDR 192.168.5.1
391 INITIISPORT 80
391 INITBROWSERS 590
391 INITMYWID 36051,36109
//Configuration Driver 392
//
392 INITIPADDR 192.168.91.10
392 INITIISADDR 192.168.5.1
392 INITIISPORT 80
392 INITBROWSERS 590
392 INITMYWID 36110,36168
//Configuration Driver 393
//
393 INITIPADDR 192.168.91.10
393 INITIISADDR 192.168.5.1
393 INITIISPORT 80
393 INITBROWSERS 590
393 INITMYWID 36169,36227
//Configuration Driver 394
//
394 INITIPADDR 192.168.91.10
394 INITIISADDR 192.168.5.1
394 INITIISPORT 80
394 INITBROWSERS 590
394 INITMYWID 36228,36286
//Configuration Driver 395
//
395 INITIPADDR 192.168.91.10
395 INITIISADDR 192.168.5.1
395 INITIISPORT 80
395 INITBROWSERS 590
395 INITMYWID 36287,36345
//Configuration Driver 396
//
396 INITIPADDR 192.168.91.10
396 INITIISADDR 192.168.5.1
396 INITIISPORT 80
396 INITBROWSERS 590
396 INITMYWID 36346,36404
//Configuration Driver 397
//
397 INITIPADDR 192.168.91.10
397 INITIISADDR 192.168.5.1
397 INITIISPORT 80
397 INITBROWSERS 590

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```

397 INITMYWID 36405,36463
//
//Configuration Driver 398
//
398 INITIPADDR 192.168.91.10
398 INITIISADDR 192.168.5.1
398 INITIISPORT 80
398 INITBROWSERS 590
398 INITMYWID 36464,36522
//Configuration Driver 399
//
399 INITIPADDR 192.168.91.10
399 INITIISADDR 192.168.5.1
399 INITIISPORT 80
399 INITBROWSERS 590
399 INITMYWID 36523,36581
//Configuration Driver 400
//
400 INITIPADDR 192.168.91.10
400 INITIISADDR 192.168.5.1
400 INITIISPORT 80
400 INITBROWSERS 590
400 INITMYWID 36582,36640
//Configuration Driver 401
//
401 INITIPADDR 192.168.91.11
401 INITIISADDR 192.168.6.1
401 INITIISPORT 80
401 INITBROWSERS 620
401 INITMYWID 36641,36702
//Configuration Driver 402
//
402 INITIPADDR 192.168.91.11
402 INITIISADDR 192.168.6.1
402 INITIISPORT 80
402 INITBROWSERS 620
402 INITMYWID 36703,36764
//Configuration Driver 403
//
403 INITIPADDR 192.168.91.11
403 INITIISADDR 192.168.6.1
403 INITIISPORT 80
403 INITBROWSERS 620
403 INITMYWID 36765,36826
//Configuration Driver 404
//
404 INITIPADDR 192.168.91.11
404 INITIISADDR 192.168.6.1
404 INITIISPORT 80
404 INITBROWSERS 620
404 INITMYWID 36827,36888
//Configuration Driver 405
//
405 INITIPADDR 192.168.91.11
405 INITIISADDR 192.168.6.1
405 INITIISPORT 80
405 INITBROWSERS 620
405 INITMYWID 36889,36950
//

```

```

//Configuration Driver 406
//
406 INITIPADDR 192.168.91.11
406 INITIISADDR 192.168.6.1
406 INITIISPORT 80
406 INITBROWSERS 620
406 INITMYWID 36951,37012
//
//Configuration Driver 407
//
407 INITIPADDR 192.168.91.11
407 INITIISADDR 192.168.6.1
407 INITIISPORT 80
407 INITBROWSERS 620
407 INITMYWID 37013,37074
//
//Configuration Driver 408
//
408 INITIPADDR 192.168.91.11
408 INITIISADDR 192.168.6.1
408 INITIISPORT 80
408 INITBROWSERS 620
408 INITMYWID 37075,37136
//
//Configuration Driver 409
//
409 INITIPADDR 192.168.91.11
409 INITIISADDR 192.168.6.1
409 INITIISPORT 80
409 INITBROWSERS 620
409 INITMYWID 37137,37198
//
//Configuration Driver 410
//
410 INITIPADDR 192.168.91.11
410 INITIISADDR 192.168.6.1
410 INITIISPORT 80
410 INITBROWSERS 620
410 INITMYWID 37199,37260
//
//Configuration Driver 411
//
411 INITIPADDR 192.168.91.11
411 INITIISADDR 192.168.6.1
411 INITIISPORT 80
411 INITBROWSERS 620
411 INITMYWID 37261,37322
//
//Configuration Driver 412
//
412 INITIPADDR 192.168.91.11
412 INITIISADDR 192.168.6.1
412 INITIISPORT 80
412 INITBROWSERS 620
412 INITMYWID 37323,37384
//
//Configuration Driver 413
//
413 INITIPADDR 192.168.91.11
413 INITIISADDR 192.168.6.1
413 INITIISPORT 80
413 INITBROWSERS 620
413 INITMYWID 37385,37446
//
//Configuration Driver 414
//

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414 INITIPADDR 192.168.91.11
414 INITIISADDR 192.168.6.1
414 INITIISPORT 80
414 INITBROWSERS 620
414 INITMYWID 37447,37508
//
//Configuration Driver 415
//
415 INITIPADDR 192.168.91.11
415 INITIISADDR 192.168.6.1
415 INITIISPORT 80
415 INITBROWSERS 620
415 INITMYWID 37509,37570
//
//Configuration Driver 416
//
416 INITIPADDR 192.168.91.11
416 INITIISADDR 192.168.6.1
416 INITIISPORT 80
416 INITBROWSERS 620
416 INITMYWID 37571,37632
//
//Configuration Driver 417
//
417 INITIPADDR 192.168.91.11
417 INITIISADDR 192.168.6.1
417 INITIISPORT 80
417 INITBROWSERS 620
417 INITMYWID 37633,37694
//
//Configuration Driver 418
//
418 INITIPADDR 192.168.91.11
418 INITIISADDR 192.168.6.1
418 INITIISPORT 80
418 INITBROWSERS 620
418 INITMYWID 37695,37756
//
//Configuration Driver 419
//
419 INITIPADDR 192.168.91.11
419 INITIISADDR 192.168.6.1
419 INITIISPORT 80
419 INITBROWSERS 620
419 INITMYWID 37757,37818
//
//Configuration Driver 420
//
420 INITIPADDR 192.168.91.11
420 INITIISADDR 192.168.6.1
420 INITIISPORT 80
420 INITBROWSERS 620
420 INITMYWID 37819,37880
//
//Configuration Driver 421
//
421 INITIPADDR 192.168.91.11
421 INITIISADDR 192.168.6.1
421 INITIISPORT 80
421 INITBROWSERS 620
421 INITMYWID 37881,37942
//
//Configuration Driver 422
//
422 INITIPADDR 192.168.91.11
422 INITIISADDR 192.168.6.1

```



```

422 INITIISPORT 80
422 INITBROWSERS 620
422 INITMYWID 37943,38004
//Configuration Driver 423
//
423 INITIPADDR 192.168.91.11
423 INITIISADDR 192.168.6.1
423 INITIISPORT 80
423 INITBROWSERS 620
423 INITMYWID 38005,38066
//Configuration Driver 424
//
424 INITIPADDR 192.168.91.11
424 INITIISADDR 192.168.6.1
424 INITIISPORT 80
424 INITBROWSERS 620
424 INITMYWID 38067,38128
//Configuration Driver 425
//
425 INITIPADDR 192.168.91.11
425 INITIISADDR 192.168.6.1
425 INITIISPORT 80
425 INITBROWSERS 620
425 INITMYWID 38129,38190
//Configuration Driver 426
//
426 INITIPADDR 192.168.91.11
426 INITIISADDR 192.168.6.1
426 INITIISPORT 80
426 INITBROWSERS 620
426 INITMYWID 38191,38252
//Configuration Driver 427
//
427 INITIPADDR 192.168.91.11
427 INITIISADDR 192.168.6.1
427 INITIISPORT 80
427 INITBROWSERS 620
427 INITMYWID 38253,38314
//Configuration Driver 428
//
428 INITIPADDR 192.168.91.11
428 INITIISADDR 192.168.6.1
428 INITIISPORT 80
428 INITBROWSERS 620
428 INITMYWID 38315,38376
//Configuration Driver 429
//
429 INITIPADDR 192.168.91.11
429 INITIISADDR 192.168.6.1
429 INITIISPORT 80
429 INITBROWSERS 620
429 INITMYWID 38377,38438
//Configuration Driver 430
//
430 INITIPADDR 192.168.91.11
430 INITIISADDR 192.168.6.1
430 INITIISPORT 80
430 INITBROWSERS 620

```

```

430 INITMYWID 38439,38500
//
//Configuration Driver 431
//
431 INITIPADDR 192.168.91.11
431 INITIISADDR 192.168.6.1
431 INITIISPORT 80
431 INITBROWSERS 620
431 INITMYWID 38501,38562
//Configuration Driver 432
//
432 INITIPADDR 192.168.91.11
432 INITIISADDR 192.168.6.1
432 INITIISPORT 80
432 INITBROWSERS 620
432 INITMYWID 38563,38624
//Configuration Driver 433
//
433 INITIPADDR 192.168.91.11
433 INITIISADDR 192.168.6.1
433 INITIISPORT 80
433 INITBROWSERS 620
433 INITMYWID 38625,38686
//Configuration Driver 434
//
434 INITIPADDR 192.168.91.11
434 INITIISADDR 192.168.6.1
434 INITIISPORT 80
434 INITBROWSERS 620
434 INITMYWID 38687,38748
//Configuration Driver 435
//
435 INITIPADDR 192.168.91.11
435 INITIISADDR 192.168.6.1
435 INITIISPORT 80
435 INITBROWSERS 620
435 INITMYWID 38749,38810
//Configuration Driver 436
//
436 INITIPADDR 192.168.91.11
436 INITIISADDR 192.168.6.1
436 INITIISPORT 80
436 INITBROWSERS 620
436 INITMYWID 38811,38872
//Configuration Driver 437
//
437 INITIPADDR 192.168.91.11
437 INITIISADDR 192.168.6.1
437 INITIISPORT 80
437 INITBROWSERS 620
437 INITMYWID 38873,38934
//Configuration Driver 438
//
438 INITIPADDR 192.168.91.11
438 INITIISADDR 192.168.6.1
438 INITIISPORT 80
438 INITBROWSERS 620
438 INITMYWID 38935,38996
//

```

```
//Configuration Driver 439
//
439 INITIPADDR 192.168.91.11
439 INITIISADDR 192.168.6.1
439 INITIISPORT 80
439 INITBROWSERS 620
439 INITMYWID 38997,39058
//
//Configuration Driver 440
//
440 INITIPADDR 192.168.91.11
440 INITIISADDR 192.168.6.1
440 INITIISPORT 80
440 INITBROWSERS 620
440 INITMYWID 39059,39120
//
//Configuration Driver 441
//
441 INITIPADDR 192.168.91.12
441 INITIISADDR 192.168.6.1
441 INITIISPORT 80
441 INITBROWSERS 620
441 INITMYWID 39121,39182
//
//Configuration Driver 442
//
442 INITIPADDR 192.168.91.12
442 INITIISADDR 192.168.6.1
442 INITIISPORT 80
442 INITBROWSERS 620
442 INITMYWID 39183,39244
//
//Configuration Driver 443
//
443 INITIPADDR 192.168.91.12
443 INITIISADDR 192.168.6.1
443 INITIISPORT 80
443 INITBROWSERS 620
443 INITMYWID 39245,39306
//
//Configuration Driver 444
//
444 INITIPADDR 192.168.91.12
444 INITIISADDR 192.168.6.1
444 INITIISPORT 80
444 INITBROWSERS 620
444 INITMYWID 39307,39368
//
//Configuration Driver 445
//
445 INITIPADDR 192.168.91.12
445 INITIISADDR 192.168.6.1
445 INITIISPORT 80
445 INITBROWSERS 620
445 INITMYWID 39369,39430
//
//Configuration Driver 446
//
446 INITIPADDR 192.168.91.12
446 INITIISADDR 192.168.6.1
446 INITIISPORT 80
446 INITBROWSERS 620
446 INITMYWID 39431,39492
//
//Configuration Driver 447
//
```

```
447 INITIPADDR 192.168.91.12
447 INITIISADDR 192.168.6.1
447 INITIISPORT 80
447 INITBROWSERS 620
447 INITMYWID 39493,39554
//
//Configuration Driver 448
//
448 INITIPADDR 192.168.91.12
448 INITIISADDR 192.168.6.1
448 INITIISPORT 80
448 INITBROWSERS 620
448 INITMYWID 39555,39616
//
//Configuration Driver 449
//
449 INITIPADDR 192.168.91.12
449 INITIISADDR 192.168.6.1
449 INITIISPORT 80
449 INITBROWSERS 620
449 INITMYWID 39617,39678
//
//Configuration Driver 450
//
450 INITIPADDR 192.168.91.12
450 INITIISADDR 192.168.6.1
450 INITIISPORT 80
450 INITBROWSERS 620
450 INITMYWID 39679,39740
//
//Configuration Driver 451
//
451 INITIPADDR 192.168.91.12
451 INITIISADDR 192.168.6.1
451 INITIISPORT 80
451 INITBROWSERS 620
451 INITMYWID 39741,39802
//
//Configuration Driver 452
//
452 INITIPADDR 192.168.91.12
452 INITIISADDR 192.168.6.1
452 INITIISPORT 80
452 INITBROWSERS 620
452 INITMYWID 39803,39864
//
//Configuration Driver 453
//
453 INITIPADDR 192.168.91.12
453 INITIISADDR 192.168.6.1
453 INITIISPORT 80
453 INITBROWSERS 620
453 INITMYWID 39865,39926
//
//Configuration Driver 454
//
454 INITIPADDR 192.168.91.12
454 INITIISADDR 192.168.6.1
454 INITIISPORT 80
454 INITBROWSERS 620
454 INITMYWID 39927,39988
//
//Configuration Driver 455
//
455 INITIPADDR 192.168.91.12
455 INITIISADDR 192.168.6.1
```

```
455 INITIISPORT 80
455 INITBROWSERS 620
455 INITMYWID 39989,40050
//
//Configuration Driver 456
//
456 INITIPADDR 192.168.91.12
456 INITIISADDR 192.168.6.1
456 INITIISPORT 80
456 INITBROWSERS 620
456 INITMYWID 40051,40112
//
//Configuration Driver 457
//
457 INITIPADDR 192.168.91.12
457 INITIISADDR 192.168.6.1
457 INITIISPORT 80
457 INITBROWSERS 620
457 INITMYWID 40113,40174
//
//Configuration Driver 458
//
458 INITIPADDR 192.168.91.12
458 INITIISADDR 192.168.6.1
458 INITIISPORT 80
458 INITBROWSERS 620
458 INITMYWID 40175,40236
//
//Configuration Driver 459
//
459 INITIPADDR 192.168.91.12
459 INITIISADDR 192.168.6.1
459 INITIISPORT 80
459 INITBROWSERS 620
459 INITMYWID 40237,40298
//
//Configuration Driver 460
//
460 INITIPADDR 192.168.91.12
460 INITIISADDR 192.168.6.1
460 INITIISPORT 80
460 INITBROWSERS 620
460 INITMYWID 40299,40360
//
//Configuration Driver 461
//
461 INITIPADDR 192.168.91.12
461 INITIISADDR 192.168.6.1
461 INITIISPORT 80
461 INITBROWSERS 620
461 INITMYWID 40361,40422
//
//Configuration Driver 462
//
462 INITIPADDR 192.168.91.12
462 INITIISADDR 192.168.6.1
462 INITIISPORT 80
462 INITBROWSERS 620
462 INITMYWID 40423,40484
//
//Configuration Driver 463
//
463 INITIPADDR 192.168.91.12
463 INITIISADDR 192.168.6.1
463 INITIISPORT 80
463 INITBROWSERS 620
```

```
463 INITMYWID 40485,40546
//
//Configuration Driver 464
//
464 INITIPADDR 192.168.91.12
464 INITIISADDR 192.168.6.1
464 INITIISPORT 80
464 INITBROWSERS 620
464 INITMYWID 40547,40608
//
//Configuration Driver 465
//
465 INITIPADDR 192.168.91.12
465 INITIISADDR 192.168.6.1
465 INITIISPORT 80
465 INITBROWSERS 620
465 INITMYWID 40609,40670
//
//Configuration Driver 466
//
466 INITIPADDR 192.168.91.12
466 INITIISADDR 192.168.6.1
466 INITIISPORT 80
466 INITBROWSERS 620
466 INITMYWID 40671,40732
//
//Configuration Driver 467
//
467 INITIPADDR 192.168.91.12
467 INITIISADDR 192.168.6.1
467 INITIISPORT 80
467 INITBROWSERS 620
467 INITMYWID 40733,40794
//
//Configuration Driver 468
//
468 INITIPADDR 192.168.91.12
468 INITIISADDR 192.168.6.1
468 INITIISPORT 80
468 INITBROWSERS 620
468 INITMYWID 40795,40856
//
//Configuration Driver 469
//
469 INITIPADDR 192.168.91.12
469 INITIISADDR 192.168.6.1
469 INITIISPORT 80
469 INITBROWSERS 620
469 INITMYWID 40857,40918
//
//Configuration Driver 470
//
470 INITIPADDR 192.168.91.12
470 INITIISADDR 192.168.6.1
470 INITIISPORT 80
470 INITBROWSERS 620
470 INITMYWID 40919,40980
//
//Configuration Driver 471
//
471 INITIPADDR 192.168.91.12
471 INITIISADDR 192.168.6.1
471 INITIISPORT 80
471 INITBROWSERS 620
471 INITMYWID 40981,41042
//
```

```

//Configuration Driver 472
//
472 INITIPADDR 192.168.91.12
472 INITIISADDR 192.168.6.1
472 INITIISPORT 80
472 INITBROWSERS 620
472 INITMYWID 41043,41104
//
//Configuration Driver 473
//
473 INITIPADDR 192.168.91.12
473 INITIISADDR 192.168.6.1
473 INITIISPORT 80
473 INITBROWSERS 620
473 INITMYWID 41105,41166
//
//Configuration Driver 474
//
474 INITIPADDR 192.168.91.12
474 INITIISADDR 192.168.6.1
474 INITIISPORT 80
474 INITBROWSERS 620
474 INITMYWID 41167,41228
//
//Configuration Driver 475
//
475 INITIPADDR 192.168.91.12
475 INITIISADDR 192.168.6.1
475 INITIISPORT 80
475 INITBROWSERS 620
475 INITMYWID 41229,41290
//
//Configuration Driver 476
//
476 INITIPADDR 192.168.91.12
476 INITIISADDR 192.168.6.1
476 INITIISPORT 80
476 INITBROWSERS 620
476 INITMYWID 41291,41352
//
//Configuration Driver 477
//
477 INITIPADDR 192.168.91.12
477 INITIISADDR 192.168.6.1
477 INITIISPORT 80
477 INITBROWSERS 620
477 INITMYWID 41353,41414
//
//Configuration Driver 478
//
478 INITIPADDR 192.168.91.12
478 INITIISADDR 192.168.6.1
478 INITIISPORT 80
478 INITBROWSERS 620
478 INITMYWID 41415,41476
//
//Configuration Driver 479
//
479 INITIPADDR 192.168.91.12
479 INITIISADDR 192.168.6.1
479 INITIISPORT 80
479 INITBROWSERS 620
479 INITMYWID 41477,41538
//
//Configuration Driver 480
//

```

```

480 INITIPADDR 192.168.91.12
480 INITIISADDR 192.168.6.1
480 INITIISPORT 80
480 INITBROWSERS 620
480 INITMYWID 41539,41600

```

Driver Environment

Webdriver.cmd

```

if '%1'==' ' goto usage

:paramok

set WEBDRIVerno=%1
set WEBADMBASEPORT=4300
set WEBDIAGLEVEL=2
set WEBEVENTLOG=1
set WEBEVENTHOST=
set WEBLOGLEVEL=1
set WEBSINGLETRAN=0
set WEBTPCCAUDIT=0
set WEBRTFUDGETM=110
set WEBNEWORDERPROB=4494
set WEBPAYMENTPROB=4303
set WEBORDERSTATUSPROB=401
set WEBDELIVERYPROB=401
set WEBSTOCKLEVELPROB=401
set WEBTTNEWORDER=12030
set WEBTTPAYMENT=12030
set WEBTTDELIVERY=5060
set WEBTTORDERSTATUS=10070
set WEBTTSTOCKLEVEL=5060

webdriver.exe

goto end

:usage
@ECHO You must supply the following parameters:
@ECHO "webdriver.cmd <driver number>"
pause

:end
exit

```

RTE IP Configuration Information

Rtedif.ver

```

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

```

```
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all
```

Windows IP Configuration

```
Host Name . . . . . : CLIENT1
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter RTE:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2
Physical Address. . . . . : 00-11-43-58-08-3E
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.1.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection
Physical Address. . . . . : 00-11-43-58-08-3D
```

```
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.91.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

```
:\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 . . . . . : CLIENT2
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter RTE:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2
Physical Address. . . . . : 00-11-43-58-08-41
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.1.12
```

```
Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :

Ethernet adapter Admin:

    Connection-specific DNS Suffix  . :

    Description . . . . . : Intel(R) PRO/1000 MT Network
Connection

    Physical Address. . . . . : 00-11-43-58-08-40

    DHCP Enabled. . . . . : No

    IP Address. . . . . : 192.168.91.2

    Subnet Mask . . . . . : 255.255.255.0

    Default Gateway . . . . . :
```

```
:\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 . . . . . : Client3

Primary Dns Suffix . . . . . :

Node Type . . . . . : Unknown

IP Routing Enabled. . . . . : No

WINS Proxy Enabled. . . . . : No
```

Ethernet adapter RTE:

```
Connection-specific DNS Suffix  . :

Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2

Physical Address. . . . . : 00-11-43-35-4D-E2

DHCP Enabled. . . . . : No

IP Address. . . . . : 192.168.1.13

Subnet Mask . . . . . : 255.255.255.0

IP Address. . . . . : 192.168.2.11

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix  . :

Description . . . . . : Intel(R) PRO/1000 MT Network
Connection

Physical Address. . . . . : 00-11-43-35-4D-E1

DHCP Enabled. . . . . : No

IP Address. . . . . : 192.168.90.103

Subnet Mask . . . . . : 255.255.255.0

IP Address. . . . . : 192.168.91.3

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :
```

:\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 . . . . . : Client4
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter RTE:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2
Physical Address. . . . . : 00-11-43-35-4D-E5
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.2.12
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection
```

```
Physical Address. . . . . : 00-11-43-35-4D-E4
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.90.104
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.168.91.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

```
:\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 . . . . . : Client5
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter RTE:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2
```

```

Physical Address. . . . . : 00-11-43-35-4D-A7
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.2.15
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.168.3.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

Ethernet adapter Admin:

    Connection-specific DNS Suffix . :
    Description . . . . . : Intel(R) PRO/1000 MT Network
    Connection
    Physical Address. . . . . : 00-11-43-35-4D-A6
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.168.91.5
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

:\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 . . . . . : Client6

```

```

Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Ethernet adapter RTE:

    Connection-specific DNS Suffix . :
    Description . . . . . : Intel(R) PRO/1000 MT Network
    Connection #2
    Physical Address. . . . . : 00-11-43-58-1C-A6
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.168.2.16
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : 192.168.3.12
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

Ethernet adapter Admin:

    Connection-specific DNS Suffix . :
    Description . . . . . : Intel(R) PRO/1000 MT Network
    Connection
    Physical Address. . . . . : 00-11-43-58-1C-A5
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.168.91.6

```



```
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.2.14
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

```
:\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 . . . . . : Client7
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter RTE:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2
Physical Address. . . . . : 00-11-43-58-1B-C7
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.3.17
Subnet Mask . . . . . : 255.255.255.0
```

```
IP Address. . . . . : 192.168.4.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection
Physical Address. . . . . : 00-11-43-58-1B-C6
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.91.7
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.158.2.15
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

```
:\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 . . . . . : Client8
Primary Dns Suffix . . . . . :
```

Node Type : Unknown
IP Routing Enabled. : No
WINS Proxy Enabled. : No

Ethernet adapter RTE:

Connection-specific DNS Suffix . . :
Description : Intel(R) PRO/1000 MT Network
Connection #2
Physical Address. : 00-11-43-58-1E-1C
DHCP Enabled. : No
IP Address. : 192.168.3.18
Subnet Mask : 255.255.255.0
IP Address. : 192.168.4.12
Subnet Mask : 255.255.255.0
Default Gateway :

Ethernet adapter Admin:

Connection-specific DNS Suffix . . :
Description : Intel(R) PRO/1000 MT Network
Connection
Physical Address. : 00-11-43-58-1E-1B
DHCP Enabled. : No
IP Address. : 192.168.91.8
Subnet Mask : 255.255.255.0

IP Address. : 192.158.2.16
Subnet Mask : 255.255.255.0
Default Gateway :

```
: \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 : CLIENT9
Primary Dns Suffix :
Node Type : Unknown
IP Routing Enabled. : No
WINS Proxy Enabled. : No

Ethernet adapter RTE:

Connection-specific DNS Suffix . . :
Description : Intel(R) PRO/1000 MT Network
Connection #2
Physical Address. : 00-11-43-58-1C-63
DHCP Enabled. : No
IP Address. : 192.168.3.9
Subnet Mask : 255.255.255.0
IP Address. : 192.168.5.11

```
Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :

Ethernet adapter Admin:

    Connection-specific DNS Suffix . . :
    Description . . . . . : Intel(R) PRO/1000 MT Network
    Connection
    Physical Address. . . . . : 00-11-43-58-1C-62
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.168.91.9
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```

```
:\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 . . . . . : CLIENT10
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter RTE:

```
    Connection-specific DNS Suffix . . :
    Description . . . . . : Intel(R) PRO/1000 MT Network
    Connection #2
    Physical Address. . . . . : 00-11-43-58-08-88
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.168.4.15
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : 192.168.5.12
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```

Ethernet adapter Admin:

```
    Connection-specific DNS Suffix . . :
    Description . . . . . : Intel(R) PRO/1000 MT Network
    Connection
    Physical Address. . . . . : 00-11-43-58-08-87
    DHCP Enabled. . . . . : No
    IP Address. . . . . : 192.168.91.10
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```

```
:\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 . . . . . : CLIENT11
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter RTE:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2
Physical Address. . . . . : 00-11-43-58-08-25
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.4.16
Subnet Mask . . . . . : 255.255.255.0
IP Address. . . . . : 192.168.6.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 MT Network
```

Connection

```
Physical Address. . . . . : 00-11-43-58-08-24
DHCP Enabled. . . . . : No
IP Address. . . . . : 192.168.91.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
```

```
:\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 . . . . . : CLIENT12
Primary Dns Suffix . . . . . :
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
```

Ethernet adapter RTE:

```
Connection-specific DNS Suffix . :
Description . . . . . : Intel(R) PRO/1000 MT Network
Connection #2
Physical Address. . . . . : 00-11-43-58-1C-07
DHCP Enabled. . . . . : No
```

```

IP Address. . . . . : 192.168.4.17

Subnet Mask . . . . . : 255.255.255.0

IP Address. . . . . : 192.168.6.12

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :

```

Ethernet adapter Admin:

```

Connection-specific DNS Suffix . :

Description . . . . . : Intel(R) PRO/1000 MT Network
Connection

Physical Address. . . . . : 00-11-43-58-1C-06

DHCP Enabled. . . . . : No

IP Address. . . . . : 192.168.91.12

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :

```

```

:\webdriver>goto end
Volume in drive \\client1\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client1\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  28,514,336,768 bytes free
Volume in drive \\client2\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client2\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  28,491,780,096 bytes free
Volume in drive \\client3\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client3\c$\webdriver

```

```

06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  25,991,315,456 bytes free
Volume in drive \\client4\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client4\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  28,454,100,992 bytes free
Volume in drive \\client5\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client5\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  27,652,112,384 bytes free
Volume in drive \\client6\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client6\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  27,887,505,408 bytes free
Volume in drive \\client7\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client7\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  26,919,493,632 bytes free
Volume in drive \\client8\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client8\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  26,420,371,456 bytes free
Volume in drive \\client9\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client9\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  29,329,854,464 bytes free
Volume in drive \\client10\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client10\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes
             0 Dir(s)  29,124,530,176 bytes free
Volume in drive \\client11\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client11\c$\webdriver
06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)              94,208 bytes

```

```

    0 Dir(s) 29,106,130,944 bytes free
Volume in drive \\client12\c$ has no label.
Volume Serial Number is 9491-81F8

Directory of \\client12\c$\webdriver

06/06/2005  01:33 PM                94,208 webdriver.exe
             1 File(s)                94,208 bytes
             0 Dir(s) 29,168,877,568 bytes free
Volume in drive C has no label.
Volume Serial Number is 7433-AD41

Directory of c:\webdriver

10/29/2004  01:05 PM                122,880 webadmin.exe
             1 File(s)                122,880 bytes
             0 Dir(s)  6,599,966,720 bytes free
Volume in drive C has no label.
Volume Serial Number is 7433-AD41

Directory of c:\webdriver

10/29/2004  01:05 PM                 61,440 rapic.exe
             1 File(s)                 61,440 bytes
             0 Dir(s)  6,599,966,720 bytes free

```

Start RTE Cmd

Startрте.txt

```

start " D1 RTE1 " /MIN webdriver.cmd 1
start " D1 RTE2 " /MIN webdriver.cmd 2
start " D1 RTE3 " /MIN webdriver.cmd 3
start " D1 RTE4 " /MIN webdriver.cmd 4
start " D1 RTE5 " /MIN webdriver.cmd 5
start " D1 RTE6 " /MIN webdriver.cmd 6
start " D1 RTE7 " /MIN webdriver.cmd 7
start " D1 RTE8 " /MIN webdriver.cmd 8
start " D1 RTE9 " /MIN webdriver.cmd 9
start " D1 RTE10 " /MIN webdriver.cmd 10
start " D1 RTE11 " /MIN webdriver.cmd 11
start " D1 RTE12 " /MIN webdriver.cmd 12
start " D1 RTE13 " /MIN webdriver.cmd 13
start " D1 RTE14 " /MIN webdriver.cmd 14
start " D1 RTE15 " /MIN webdriver.cmd 15
start " D1 RTE16 " /MIN webdriver.cmd 16
start " D1 RTE17 " /MIN webdriver.cmd 17
start " D1 RTE18 " /MIN webdriver.cmd 18
start " D1 RTE19 " /MIN webdriver.cmd 19
start " D1 RTE20 " /MIN webdriver.cmd 20
start " D1 RTE21 " /MIN webdriver.cmd 21
start " D1 RTE22 " /MIN webdriver.cmd 22
start " D1 RTE23 " /MIN webdriver.cmd 23
start " D1 RTE24 " /MIN webdriver.cmd 24
start " D1 RTE25 " /MIN webdriver.cmd 25
start " D1 RTE26 " /MIN webdriver.cmd 26
start " D1 RTE27 " /MIN webdriver.cmd 27
start " D1 RTE28 " /MIN webdriver.cmd 28
start " D1 RTE29 " /MIN webdriver.cmd 29
start " D1 RTE30 " /MIN webdriver.cmd 30

```

```

start " D1 RTE31 " /MIN webdriver.cmd 31
start " D1 RTE32 " /MIN webdriver.cmd 32
start " D1 RTE33 " /MIN webdriver.cmd 33
start " D1 RTE34 " /MIN webdriver.cmd 34
start " D1 RTE35 " /MIN webdriver.cmd 35
start " D1 RTE36 " /MIN webdriver.cmd 36
start " D1 RTE37 " /MIN webdriver.cmd 37
start " D1 RTE38 " /MIN webdriver.cmd 38
start " D1 RTE39 " /MIN webdriver.cmd 39
start " D1 RTE40 " /MIN webdriver.cmd 40
start " D2 RTE41 " /MIN webdriver.cmd 41
start " D2 RTE42 " /MIN webdriver.cmd 42
start " D2 RTE43 " /MIN webdriver.cmd 43
start " D2 RTE44 " /MIN webdriver.cmd 44
start " D2 RTE45 " /MIN webdriver.cmd 45
start " D2 RTE46 " /MIN webdriver.cmd 46
start " D2 RTE47 " /MIN webdriver.cmd 47
start " D2 RTE48 " /MIN webdriver.cmd 48
start " D2 RTE49 " /MIN webdriver.cmd 49
start " D2 RTE50 " /MIN webdriver.cmd 50
start " D2 RTE51 " /MIN webdriver.cmd 51
start " D2 RTE52 " /MIN webdriver.cmd 52
start " D2 RTE53 " /MIN webdriver.cmd 53
start " D2 RTE54 " /MIN webdriver.cmd 54
start " D2 RTE55 " /MIN webdriver.cmd 55
start " D2 RTE56 " /MIN webdriver.cmd 56
start " D2 RTE57 " /MIN webdriver.cmd 57
start " D2 RTE58 " /MIN webdriver.cmd 58
start " D2 RTE59 " /MIN webdriver.cmd 59
start " D2 RTE60 " /MIN webdriver.cmd 60
start " D2 RTE61 " /MIN webdriver.cmd 61
start " D2 RTE62 " /MIN webdriver.cmd 62
start " D2 RTE63 " /MIN webdriver.cmd 63
start " D2 RTE64 " /MIN webdriver.cmd 64
start " D2 RTE65 " /MIN webdriver.cmd 65
start " D2 RTE66 " /MIN webdriver.cmd 66
start " D2 RTE67 " /MIN webdriver.cmd 67
start " D2 RTE68 " /MIN webdriver.cmd 68
start " D2 RTE69 " /MIN webdriver.cmd 69
start " D2 RTE70 " /MIN webdriver.cmd 70
start " D2 RTE71 " /MIN webdriver.cmd 71
start " D2 RTE72 " /MIN webdriver.cmd 72
start " D2 RTE73 " /MIN webdriver.cmd 73
start " D2 RTE74 " /MIN webdriver.cmd 74
start " D2 RTE75 " /MIN webdriver.cmd 75
start " D2 RTE76 " /MIN webdriver.cmd 76
start " D2 RTE77 " /MIN webdriver.cmd 77
start " D2 RTE78 " /MIN webdriver.cmd 78
start " D2 RTE79 " /MIN webdriver.cmd 79
start " D2 RTE80 " /MIN webdriver.cmd 80
start " D3 RTE81 " /MIN webdriver.cmd 81
start " D3 RTE82 " /MIN webdriver.cmd 82
start " D3 RTE83 " /MIN webdriver.cmd 83
start " D3 RTE84 " /MIN webdriver.cmd 84
start " D3 RTE85 " /MIN webdriver.cmd 85
start " D3 RTE86 " /MIN webdriver.cmd 86
start " D3 RTE87 " /MIN webdriver.cmd 87
start " D3 RTE88 " /MIN webdriver.cmd 88
start " D3 RTE89 " /MIN webdriver.cmd 89
start " D3 RTE90 " /MIN webdriver.cmd 90
start " D3 RTE91 " /MIN webdriver.cmd 91
start " D3 RTE92 " /MIN webdriver.cmd 92
start " D3 RTE93 " /MIN webdriver.cmd 93
start " D3 RTE94 " /MIN webdriver.cmd 94
start " D3 RTE95 " /MIN webdriver.cmd 95
start " D3 RTE96 " /MIN webdriver.cmd 96

```




Appendix E - Disk Storage

TPC-C 60-Day Disk Space Requirements					
WH Used	41600				
Init Warehouses	42,500	tpmC	520,467	tpmC/W	12.25
Table	Initial Rows	Data KB	Index KB	Extra 5% KB	Total With 5% KB
Warehouse	42,500	4,536	424	248	5,208
District	425,000	47,224	672	2,395	50,291
Customer	1,275,000,000	261,538,464	56,368,928	15,895,370	333,802,762
Customer.Text	1,275,000,000	800,001,736		40,000,087	840,001,823
History (D)	1,275,000,000	72,064,032	269,488		72,333,520
Order (D)	1,275,000,000	41,632,656	95,248		41,727,904
New-Order	382,500,000	6,815,152	17,536	341,634	7,174,322
Order-Line (D)	12,749,953,860	836,062,552	1,969,528		838,032,080
Item	100,000	8,648	600	462	9,710
Stock	4,250,000,000	1,327,803,280	2,798,848	66,530,106	1,397,132,234
Totals KB		3,345,978,280	61,521,272	122,770,302	3,530,269,854
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	72	13,000	936,000	891,016	907,052
mssql70_cs_fg	72	25,500	1,836,000	1,690,366	1,690,366
mssql70_ord_fg	72	17,500	1,260,000	866,147	1,179,734
Total Allocated MB			4,032,042	3,447,571	3,777,194
MB					
Dynamic Space MB	927,499	Sum of data for orders, order_line & history			
Static Space	2,520,030	Sum of data+index+5% - Dynamic Space			
Free Space	584,513	Total allocated space - (Dynamic & Static Spaces)			
Daily Growth	181,735	(Dynamic Space / (W * 62.5)) * tpmC			
Daily Spread	311,911	Free space - 1.5 * Daily growth (zero if negative)			
		0 SQL Server can be configured to eliminate Daily Spread			
60 Day Space MB	13,424,111	Static Space + 60 * (Daily Growth + Daily Spread)			
60 Day Space GB	13,109.48				
8 hr log GB	1,599.78	(need double for mirroring)			
Disk Capacity MB	17499	17.089 GB	Capacity of 18GB disks (15,000 RPM)		
	68808	67.195 GB	Capacity of 73GB disks (15,000 RPM)		
	139101	135.841 GB	Capacity of 146GB disks (10,000 RPM)		
Space Usage					
60-day space DB	GB Needed	Disks Priced	GB Priced		
Total DB	13109.48 GB	1080	72571.01 GB	72GB drives	
		1080	72571.01 GB		
8-hr log+mirror	3199.57 GB	26	3531.87 GB	146GB drives	
OS, SQL Server	14.00 GB	2	55.90 GB	36GB drives	
Total space	16323.05 GB	1108	76158.78 GB	74.4 TB	

TPC-C Dynamic Table Growth Rates for 8 Hours					520,467 tpmC
Tables	Initial (KB)	Final (KB)	Change(KB)	KB / New-Order	8-Hr MB
History	72,333,520	80,199,976	7,866,456	0.0657	86,673.69
Orders	41,727,904	51,734,640	10,006,736	0.0836	61,148.28
Order_line	838,032,080	978,347,184	140,315,104	1.1724	1,104,418.03
Dynamic	952,093,504	1,110,281,800	158,188,296	1.3217	1,252,240.01
New_order	6,832,688	10,509,648	3,676,960	0.0307	14,167.90
Static					
Log	62,511,617	836,197,798	773,686,180	6.4645	1,638,178.17
SUM(d_next_o_id)	1,275,425,000	1,395,107,697	119,682,697		

Appendix F - Third-Party Price Quotations

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399

Tel 425 882 8080
Fax 425 936 7329
<http://www.microsoft.com/>

Microsoft

March 7, 2007

Unisys Corporation
Steve Barrish
25725 Jeronimo Road
Mission Viejo, CA 92691

Mr. Barrish:

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

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

Part Number	Description	Unit Price	Quantity	Price
810-03150	SQL Server 2005 Enterprise x64 Edition <i>Per Processor License</i> <i>Discount Schedule: Open Program - No Level</i> <i>Unit Price reflects a 4% discount from the retail unit price of \$24,999.</i>	\$23,911	8	\$191,288
P72-00274	Windows Server 2003, Enterprise x64 Edition <i>Server License Only - No CALs</i> <i>Discount Schedule: Open Program - No Level</i> <i>Unit Price reflects a 42% discount from the retail unit price of \$3,999.</i>	\$2,334	1	\$2,334
P73-00295	Windows Server 2003, Standard Edition <i>Server License Only - No CALs</i> <i>Discount Schedule: Open Program - No Level</i> <i>Unit Price reflects a 28% discount from the retail unit price of \$999.</i>	\$719	6	\$4,314
254-00170	Visual C++ .Net Standard Edition 2003 <i>No Discounts Applied</i>	\$109	1	\$109
N/A	Microsoft Problem Resolution Services <i>Professional Support</i> <i>(1 Incident)</i>	\$245	1	\$245

All products are currently orderable through Microsoft's normal distribution channels. A list of Microsoft's authorized resellers can be found at:
<http://www.microsoft.com/products/info/render.aspx?view=22&type=mnpc&content=22/licensing>.

Defect support is included in the purchase price. Additional support is available from Microsoft PSS on an incident by incident basis at \$245 per call.

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Phone: 800-848-7185
 Fax: 203-384-0473
 35 Benham Avenue
 Bridgeport, CT 06605
 www.cri1.com

SALES QUOTE

SQ-23775

Mar 14, 2007

Customer		Contact		Ship To			
UNISYS CORPORATION 25725 JERONIMO RD MISSION VIEJO CA 92691 UNITED STATES				UNISYS CORPORATION 25725 JERONIMO RD MISSION VIEJO CA 92691 UNITED STATES			
Account	Terms	Due Date	Account Rep	Schedule Date			
UNIMISSI	NET 30	Apr 13, 2007	John Palmieri				
Quotation	PO #	Reference	Ship VIA	Page	Printed		
SQ-23775			UPS GROUND	1	03/19/07 17:16		
L Item	Description	Qty	Ship	Price	M	Discount	Amount
1	Server Hardware						
2	RCK4019421-FSS RCK: 40U W/TOP REAR DOORS SKINS	1		2470.00	EA		2470.00
3	RCK4019421-OTK RCK:40U RAK OPEN FRONT TRIM KIT	1		238.00	EA		238.00
4	PWR4201-220 PWR:PDU & CORD, 4 OUTLET, 20A, 200	4		189.00	EA		756.00
5	CTM6005-CBI INFORMATION KIT	1		1.00	EA		1.00
6	ES7112086-700 ES7000/ONE	1		144875.00	EA		144875.00
7	FCH7440231-PCX CTRL:VI-OVER-FC HBA, 4GB 2-PORT, PCI	3		1900.00	EA		5700.00
8	FC76222-P64 CTRL: 2 GB FC, INTELLIFIBRE	10		2850.00	EA		28500.00
9	FAC7100722-IDK DISK:ES7/ONE 2X72GB LSI SAS	1		1853.00	EA		1853.00
10	FAC7102402-ICA INITIAL MEMORY	4		9880.00	EA		39520.00
11	FAC7116402-64G MEMORY EXPANSION	3		59584.00	EA		178752.00
12	KVM9163101-SWC SWITCH:KVM 16-PORT PS/2-CAT 5	1		1805.00	EA		1805.00
13	ES70004-UIF I/F: MONITOR, 17-INCH LDC, KYBRD, MSE	1		618.00	EA		618.00
14	KVM9001301-CNV ADPT: CAT5 TO PS/2	1		114.00	EA		114.00
15	Disk Storage						
16	HRT361941-OFT ACC:36U 19X41 OPEN FRT CAB, HRT COLOR	7		1425.00	EA		9975.00
17	SFR9-PWR ACC: 9-PLUG POWER STRIP	21		162.00	EA		3402.00
18	USE1936-LC6 PWR CORD:C20/NEMA L6-20P	21		86.00	EA		1806.00
19	RTS412880-P50 BASIC ENCLOSURE (50 UNIT BUNDLE)	1		212548.00	EA		212548.00
20	RTS412880-P05 BASIC ENCLOSURE (5 UNIT BUNDLE)	1		41539.00	EA		41539.00
21	RTS422880-P01 RAID CONTROLLER	3		13544.00	EA		40632.00
22	RTS422880-P15 RAID CONTROLLER (15 UNIT BUNDLE)	1		57807.00	EA		57807.00
23	RTS400650-P01 DAISY CHAIN CABLE	1		108.00	EA		108.00
24	RTS400650-P05 DAISY CHAIN CABLE (5 UNIT BUNDLE)	1		521.00	EA		521.00
25	RTS400650-50 DAISY CHAIN CABLE (50 UNIT BUNDLE)	1		2896.00	EA		2896.00
26	RTS400150-P01 OPTICAL TRANSCEIVER	2		203.00	EA		406.00
27	RTS400150-P10 OPTICAL TRANSCEIVER (10 UNIT BUNDLE)	1		1874.00	EA		1874.00
28	RTS400150-P60 OPTICAL TRANSCEIVER (60 UNIT BUNDLE)	2		6005.00	EA		12010.00
						Page 1	
						SubTotal	790726.00

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Phone: 800-848-7185
 Fax: 203-384-0473
 35 Benham Avenue
 Bridgeport, CT 06605
 www.cril.com

SALES QUOTE

SQ-23775

Mar 14, 2007

Customer		Contact		Ship To			
UNISYS CORPORATION 25725 JERONIMO RD MISSION VIEJO CA 92691 UNITED STATES				UNISYS CORPORATION 25725 JERONIMO RD MISSION VIEJO CA 92691 UNITED STATES			
Account	Terms	Due Date	Account Rep	Schedule Date			
UNIMISSI	NET 30	Apr 13, 2007	John Palmieri				
Quotation	PO #	Reference	Ship VIA	Page	Printed		
SQ-23775			UPS GROUND	2	03/19/07 17:16		
L Item	Description	Qty	Ship	Price	M	Discount	Amount
29	RTS400740-1 POWER CORD	148		13.00	EA		1924.00
30	RTS400012-P01 RACK MOUNT KIT	2		813.00	EA		1626.00
31	RTS400012-P05 RACK MOUNT KIT (5 UNIT BUNDLE)	1		1800.00	EA		1800.00
32	RTS400012-P10 RACK MOUNT KIT (10 UNIT BUNDLE)	1		6152.00	EA		6152.00
33	RTS400012-P20 RACK MOUNT KIT (20 UNIT BUNDLE)	1		7915.00	EA		7915.00
34	RTS420020-BAT BATTERY BACKUP	1		542.00	EA		542.00
35	RTS4307315-P70 73 GB DISK DRIVE(70 UNIT BUNDLE)	1		486802.00	EA		486802.00
36	RTS4307315-P01 73 GB DISK DRIVE (1 UNIT BUNDLE)	2		14118.00	EA		28236.00
37	RTS44101-SAN SAN MANAGER SOFTWARE	1		4334.00	EA		4334.00
38	RTS422880-2X2 DUAL CONTROLLER RAID ENCLOSURE	1		21129.00	EA		21129.00
39	RTS4314615-P30 146 GB DISK DRIVE - 15K RPM	1		23077.00	EA		23077.00
40	RTS412120-UPS UPS FOR LOG DISK Clients	1		2438.00	EA		2438.00
41							
42	ESL3220201-233 BASIC SINGLE PROC SYSTEM	6		2180.00	EA		13080.00
43	ESL322001-UNI BRAND KIT	6		26.00	EA		156.00
44	CDR3220650-INT INTERNAL CD ROM	6		40.00	EA		240.00
45	CBL322001-CD CD ROM CABLE	6		26.00	EA		156.00
46	SAL322001-S5I SAS DISK CONTROLLER	6		91.00	EA		546.00
47	HDP73110-SAS DISK:73GB 10K 3.5" SAS	6		398.00	EA		2388.00
48	PWA322001-PCX PCI-X RISER	6		53.00	EA		318.00
49	ADP3000-U2P USB PS2	6		26.00	EA		156.00
50	DIM3220042-2GB MEM:2GB 4X512 667MHZ SGL	6		862.00	EA		5172.00
51	ESL322001-RVR MOUNTING RAILS FOR RACK MOUNT	6		332.00	EA		1992.00
52	CBL12161-KVM KVM SWITCH CABLE	6		80.00	EA		480.00
53	ESL322001-BZL BEZEL	6		26.00	EA		156.00
54	FCH7440231-PCX CTRL:VI-OVER-FC HBA, 4GB 2-PORT, PCI	6		1900.00	EA		11400.00
55							
56	DISCOUNT Volume Cash Discount for similar	1		-211941.00	EA		-211941.00
				Page 2			
				SubTotal		410274.00	
				Running SubTotal		1201000.00	

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Account	Terms	Due Date	Account Rep	Schedule Date			
UNIMISSI	NET 30	Apr 13, 2007	John Palmieri				
Quotation	PO #	Reference	Ship VIA	Page	Printed		
SQ-23775			UPS GROUND	3	03/19/07 17:16		
L Item	Description	Qty	Ship	Price	M	Discount	Amount
57	configurations & quantities.						
58	Disks come with a 3 year return-to-						
59	factory warranty, 7 day replenishment.						
60	Quote valid for 90 days.						
				Taxable			0.00
				Tax			0.00
				Exempt			1201000.00
				Total			1201000.00
				Paid			0.00
				Tr Disc			0.00
				Balance			1201000.00
				Amount shown in Rate :0.00 of			

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Subtotal			\$110.20
Shipping:			
Zip Code: <input type="text"/>	Calculate Shipping		
Shipping & Handling			--
Total (excluding tax)			\$110.20

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Zip Code: <input type="text"/>	Calculate Shipping		
Shipping & Handling			--
Total (excluding tax)			\$867.50

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Reviewed By: Step on 2/27/2007
Tech Level: high - Ownership: 1 month to 1 year

Pros: What can be said! Easy install. Plug everything in and its done.
Cons: None
Other Thoughts: Less expensive would be great but not a big deal.You get what you pay for.

Did you find this review helpful? YES NO

Not Good Maxed Out
Reviewed By: Gary on 2/6/2007
Tech Level: high - Ownership: more than 1 year

Pros: Easy to install

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