



TPC Benchmark™ C Full Disclosure Report

Unisys ES7000 Orion 230 Enterprise Server

using

Microsoft SQL Server 2000 Enterprise Edition

on

**Microsoft Windows Server 2003,
Datacenter Edition**

**Second Edition
March 28, 2003**

Second Edition – March 2003

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

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

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Overview

This report documents the methodology and results of the TPC Benchmark C (TPC-C) conducted on the Unisys Corporation ES7000 Orion 230 Enterprise Server. The operating system on the server was Microsoft Windows .NET Server 2003 Datacenter Edition . The DBMS used was Microsoft SQL Server 2000 Enterprise Edition. The operating system on the clients was Microsoft Windows 2000 Server. The clients ran Microsoft's Internet Information Server 5.0 and COM+.

TPC Benchmark Metrics

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

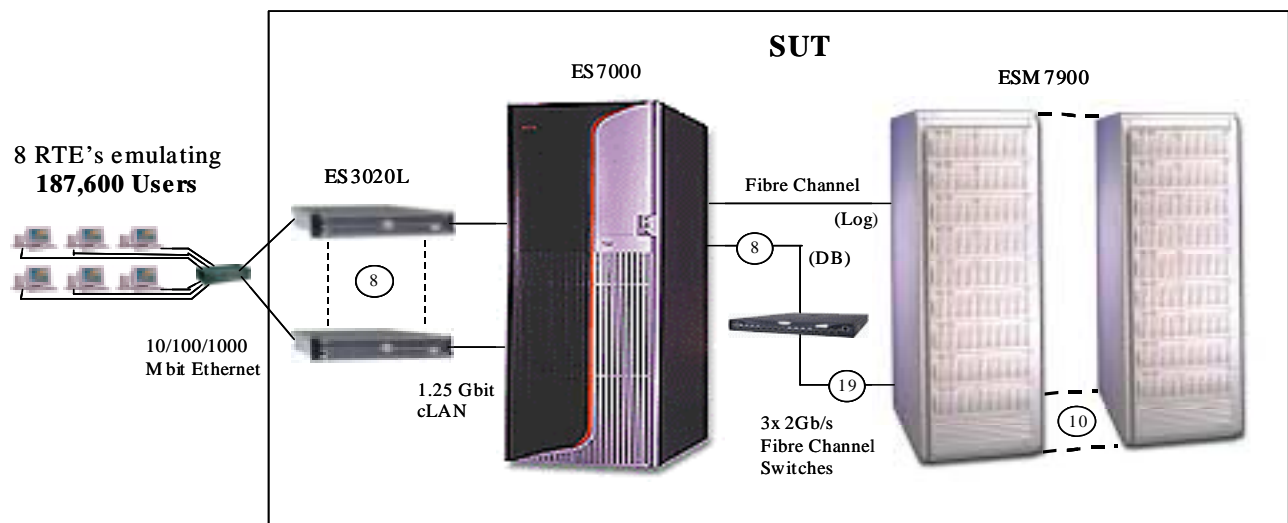
Executive Summary

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

Auditor

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, were audited by Lorna Livingtree of Performance Metrics, Inc. to verify compliance with the relevant TPC specification.

UNISYS	ES7000 Orion 230 Enterprise Server		TPC-C Rev. 5.0
			Report Date: Dec. 9, 2002 Updated: Mar. 28, 2003
Total System Cost	TPC-C Throughput	Price Performance	Availability Date
\$2,715,310	234,325.10 tpmC	\$11.59 / tpmC	May 2, 2003
Processors	Database Manager	Operating System	Other Software
32 - Database 16 - Clients	Microsoft SQL Server 2000 Enterprise Edition	Microsoft Windows Server 2003, Datacenter Edition	Windows 2000 Server w/ IIS 5.0 and COM+ Microsoft Visual C++
			Number of Users
			18,760



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

**ES7000 Orion 230
Enterprise Server**
 32 x 2.0GHz Intel® Xeon™ MP
 w/ 2MB L3 cache,
 64 GB memory,
 1 PCI SCSI controller,
 2 x 36GB internal SCSI disks,
 9 x PCI Fibre Channel controllers,
 8 x PCI cLAN controllers

**Storage
ESM7900**
 814 x 18GB + 34 x 36GB
 Hot-Pluggable
 External Fibre Channel disks
 20 x FC RAID controllers

System Components	Enterprise Server		Clients (each of 8)	
	Quantity	Type	Quantity	Type
Processors	32	2.0GHz Intel® Xeon™ MP with 2MB Level 3 Cache	2	2.4GHz Intel® Xeon™ with 512KB Level 2 Cache
Memory	4	16 GB	2	512 MB
Disk Controllers	9	PCI Fibre Channel	1	Inbuilt SCSI
	1	PCI SCSI (boot media)		
Disk Drives	814	18GB FC (16.4 GB useable)	1	18GB SCSI (16.9 GB useable)
	34	36GB FC (32.7 GB useable)		
	2	36GB SCSI (32.7 GB useable)		
Total Storage		13.8 TB		16.9 GB
Tape / CD-ROM	1	SCSI CD-ROM	1	IDE CD-ROM
Terminals	2	Console Monitor	1	Console Monitor



ES7000 Orion 230 Enterprise Server

TPC-C Rev. 5.0

Report Date: Dec. 9, 2002
Updated: Mar. 28, 2003

Description	Part No.	Third Party		Unit Price	Qty.	Extended Price	3 yr.Maint. Price
		Brand	Price				
Server Hardware:							
SYS: ES7000 Orion 230,32x 2.0GHz Procs, 16 GB Mem. 1x RAID Controller, 2x 36GB Disk (boot media) Sentinel System Management S/W and Media	ES7321831-GD Included Included			1	1	\$489,600	\$67,824
MEM: 16GB, 1 GB DIMMs	RAM7-16G			1	3	\$23,573	\$70,719
CTRL: Fibre Channel HBA, 2-Port, 64-bit PCI	FC76222-P64			1	9	\$2,720	\$24,480
CTRL: cLAN, PCI Host Adapter & Cable	PCI10001-CXG			1	8	\$721	\$5,768
CTRL: 2Ch SCSI, U160, PCI	PCI7602-P64			1	1	\$544	\$544
I/F: Monitor, 15-inch Color, Kybrd, Mse & Cable	ES70003-UIF			1	2	\$544	\$1,088
Server Software:							
O/S: Microsoft Windows .NET Datacenter & SQL Package	WNQ323232-LIT	2	1	\$476,907	1	\$476,907	\$43,200
SRVC: Microsoft Database Server Support Package*	PRO-PRORS-16U-01	2	2	\$1,950	3	\$5,850	\$5,850
Server Subtotal						\$1,069,106	\$116,874
Storage Hardware:							
DISK: 18GB Drive, 15K FC, SCA	ESM18304-F94			1	814	\$592,592	Spared
DISK: 18GB Drive, 15K FC, SCA 10% spares**	ESM18304-F94			1	82	\$728	\$59,696
DISK: 36GB Drive, 10K FC, SCA	ESM36202-F94			1	34	\$928	Spared
DISK: 36GB Drive, 10K FC, SCA 10% spares**	ESM36202-F94			1	4	\$928	\$3,712
DAE: Expansion Enclsr, w/ 0 Disk	ESM7200-DAE			1	79	\$4,087	\$71,100
DPE: 2 RAID Cntrl, 1GB Cache ea., 0 Disk	ESM7900-DPE			1	10	\$44,200	\$96,480
SYS MGT: Storage Agent, Monitor, Call Home & ATF	ESM7700-W2K			1	1	\$1,661	\$1,044
SWTCH: Switch & Software, 16-port FC, 2Gbit/s	HSC30438-S16			1	3	\$18,936	\$17,820
ACC: SFP, 2Gb/s Shortwave	HSC50400-SFS			1	39	\$218	\$2,808
CBL: FC, 50um Dupx, LC->SC Conn's, 10m	CBL170-10			1	20	\$277	\$5,540
CBL: FC, 50um Dupx, LC->LC Conn's, 10m	CBL171-10			1	14	\$279	\$3,906
PWR: Distribution Strip, 9-Plug, 220V	SFR9-PWR			1	20	\$295	\$5,900
CBL: Power, U.S. (Domestic), C20 - L6-20P	USE1936-LC6			1	20	\$126	\$2,520
CAB: 36U x 19" x 34" Open Front Cabinet	HRT361934-OFT			1	10	\$1,473	\$14,730
DOOR: 36U x 19", Rear	HRT3619-RDR			1	10	\$368	\$3,680
PNL: 36U x 34" Side Skins, L&R HRT	HRT3634-SDS			1	10	\$589	\$5,890
INSTL: Stabilizer Foot	RM1936-FOT			1	10	\$126	\$1,260
Storage Subtotal						\$1,499,414	\$252,660
Client Hardware:							
SYS: ES3020L w/ 1x 2.4GHz Proc., 0MB Mem	ESL30201-240			1	8	\$1,413	\$10,464
PROC:1x 2.4GHz Intel Xeon/512KB Cache	CPL3020241-512			1	8	\$722	\$5,776
MEM: 1GB, 2x512MB DDR DRAM PC133ECC	DIM3000022-1GB			1	8	\$723	\$5,784
RCK: ESL2026 Disk Backpanel, 1x4	HBP3020101-51			1	8	\$205	\$1,640
DISK: 18GB 10Krpm 3.5 Internal	HDM18110-DC4			1	8	\$258	\$2,064
CTRL: cLAN, PCI Host Adapter & Cable	PCI10001-CXG			1	8	\$721	\$5,768
RCK: ES3020L Universal Rack Kit	ESL3020-VRL			1	8	\$258	\$2,064
SWTCH: Switch, 8-port KVM	SWC81-SXR			1	1	\$1,179	\$1,116
CBL: Cable, KVM, 12 foot	CBL121-SWC			1	8	\$111	\$888
KBD: Keyboard & Drawer, Rackmount	KBR28301-SXR			1	1	\$258	\$258
MON: Display, Rackmount LCD	MON2145-LCD			1	1	\$1,989	\$1,989
PWR: Distribution Strip, 9-Plug, 220V	SFR9-PWR			1	2	\$295	\$590
CBL: Power, U.S. (Domestic), C20 - L6-20P	USE1936-LC6			1	2	\$126	\$252
CAB: 36U x 19" x 34" Open Front Cabinet	HRT361934-OFT			1	1	\$1,473	\$1,473
DOOR: 36U x 19", Rear	HRT3619-RDR			1	1	\$368	\$368
PNL: 36U x 34" Side Skins, L&R HRT	HRT3634-SDS			1	1	\$589	\$589
INSTL: Stabilizer Foot	RM1936-FOT			1	1	\$126	\$126
Client Software:							
O/S: Microsoft Windows 2000 Server	C11-00821	2	2	\$738	8	\$5,904	* Inc. above
ACC: Microsoft Visual C++ .NET Standard	254-00170	2	2	\$109	1	\$109	* Inc. above
Client Subtotal						\$48,125	\$11,580
Total						\$2,616,645	\$381,114
						(\$267,404)	(\$15,045)
Comark Large Volume Discount							
Unisys Service Pre-Pay Discount							
Notes:							
1. 3rd Party Brand & Pricing: 1 = Comark Product Price, Unisys Maintenance Price 2 = Microsoft				Three Year Cost of Ownership: \$2,715,310 tpmC Rating: 234,325.10 \$ / tpmC: \$11.59			
2. HW & SW maintenance figured at 24 x 7 w/ 4 hr. max. response time for spares.							
3. ** = 10% spare disks added in place of onsite service.							
Benchmark results and test methodology audited by Lorna Livingtree of Performance Metrics, Inc.							
Prices used in TPC benchmarks reflect the actual prices a customer would pay for a one-time purchase of the stated components. Individually negotiated discounts are not permitted. Special prices based on assumption about past or future purchases are not permitted. All discounts reflect standard pricing policies for the listed components. For complete details, see the pricing sections of the TPC benchmarks specifications. If you find that the stated prices are not available according to these terms, please inform the TPC at pricing@tpc.org. Thank You.							

Numerical Quantities Summary

MQTh, Computed Maximum Qualified Throughput: 234,325.10 tpmC

Response Times, in seconds

Transaction	90th %ile	Average	Maximum
New-Order	0.50	0.35	10.91
Payment	0.43	0.30	5.48
Order-Status	0.48	0.33	15.56
Delivery (interactive portion)	0.29	0.20	2.75
Delivery (deferred portion)	0.38	0.26	2.83
Stock-Level	1.40	1.00	6.08
Menu	0.29	0.20	3.34

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	44.88%
Payment	43.05%
Order-Status	4.01%
Delivery (interactive portion)	4.01%
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 / 120.33
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	39 minutes
Measurement interval (M)	120 minutes
Transactions (all types) completed during measurement interval	62,647,652
Ramp-down time	66 minutes

Checkpointing:

Number of checkpoints	4
Checkpoint interval	30 minutes

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Document Structure

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

This report is submitted to satisfy the specification's requirement for full disclosure. It documents the compliance of the benchmark implementation and execution reported for the Unisys ES7000 Orion 230 Enterprise Server using Microsoft SQL Server 2000 Enterprise Edition on Microsoft Windows .NET Server 2003 Datacenter Edition.

TPC Benchmark C Overview

The TPC Benchmark™ C Standard Specification Revision 5.0 was developed by the Transaction Processing Performance Council (TPC). It is the intent of the TPC to develop a suite of benchmarks to measure the performance of computer systems executing a wide range of applications. Unisys and Microsoft Corporations are active participants in the TPC to define and develop such a suite of benchmarks.

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

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

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

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

0.1. Order and Titles

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

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

0.2. Executive Summary Statement

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

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

0.3. Numerical Quantities Summary

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

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

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

0.4. Application Code Disclosure

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

Appendix A contains the client application code used in this TPC-C benchmark. Appendix B contains the SQL stored procedures which 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)

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

0.6. Parameter Settings

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

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

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

0.7. Configuration Diagrams

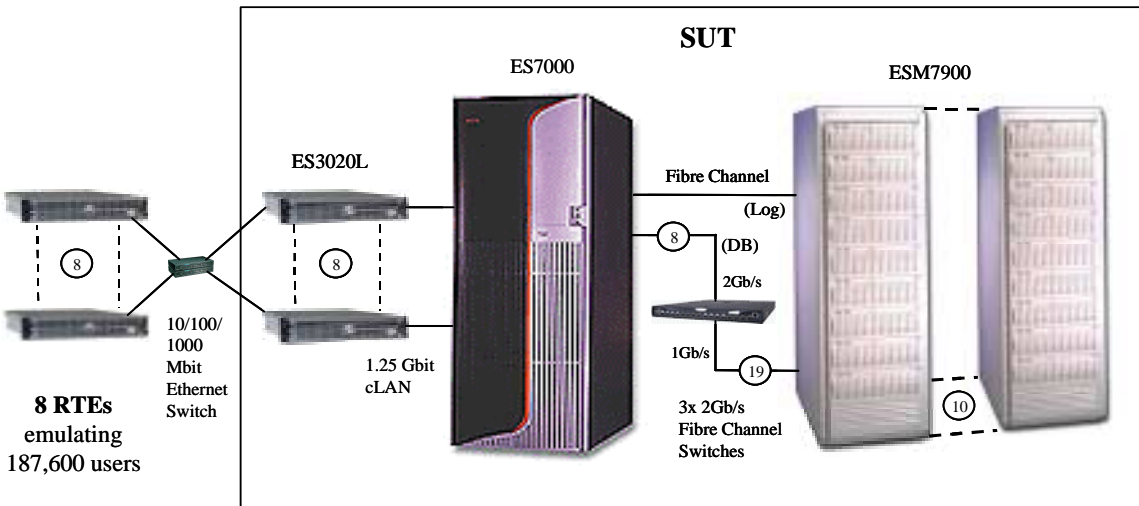
Diagrams of both measured and priced configurations must be provided, accompanied by a description of the differences. This includes, but is not limited to: (8.1.1.7)

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

The Remote Terminal Emulator (RTE) software used for these TPC-C tests is proprietary to Unisys. The benchmarked configuration of the RTE and Unisys ES7000 Orion 230 Enterprise Server is illustrated in Figure 0.1. Tables 4.3 and 4.4 contain a detailed explanation of the disk configuration.

The priced configuration for the Unisys ES7000 Orion 230 Enterprise Server is shown in Figure 0.2.

Figure 0.1: Benchmarked Configuration



Clients (each of 8)

ES3020L Server

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

ES7000 Orion 230

Enterprise Server

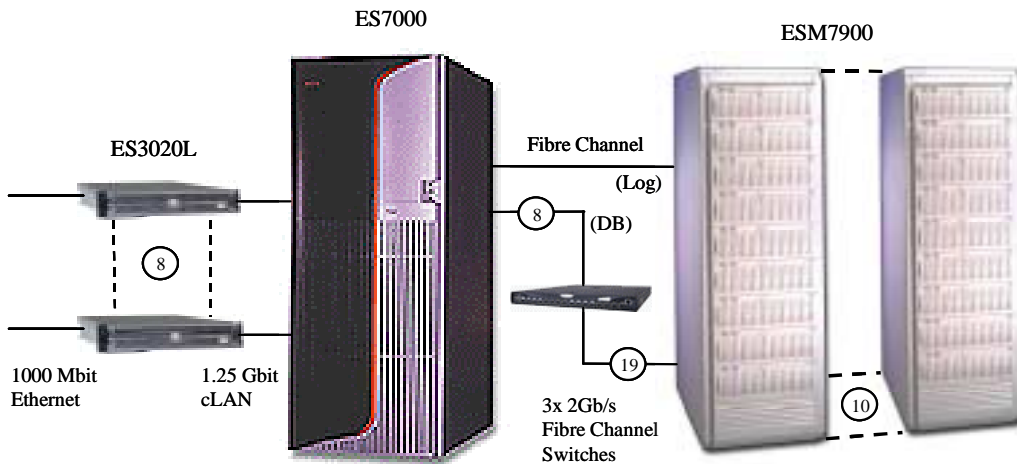
32 x 2.0GHz Intel® Xeon™ MP
w/ 2MB L3 cache,
64 GB memory,
1 PCI SCSI controller,
2 x 36GB internal SCSI disks,
9 x PCI Fibre Channel controllers,
8 x PCI cLAN controllers

Storage

ESM7900 Fibre Channel Disks

796 x 18 GB data,
32 x 36 GB log,
18 x 18GB + 2 x 36GB psm,
20 x FC RAID controllers

Figure 0.2: Priced Configuration



Clients (each of 8)

ES3020L Server

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

ES7000 Orion 230

Enterprise Server

32 x 2.0GHz Intel® Xeon™ MP
w/ 2MB L3 cache,
64 GB memory,
1 PCI SCSI controller,
2 x 36GB internal SCSI disks,
9 x PCI Fibre Channel controllers,
8 x PCI cLAN controllers

Storage

ESM7900 Fibre Channel Disks

796 x 18 GB data,
32 x 36 GB log,
18 x 18GB + 2 x 36GB psm,
20 x FC RAID controllers

1.

Clause 1: Logical Database Design

1.1. Table Definitions

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

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

1.2. Physical Organization of the Database

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

The disk space was allocated to SQL Server according to the data in Tables 4.3 and 4.4. The SQL definitions are contained in Appendix B.

1.3. Insert and/or Delete Operations

It must be ascertained that insert and/or delete operations to any of the tables can occur concurrently with the TPC-C transaction mix. Furthermore, any restriction in the SUT database implementation that precludes inserts beyond the limits defined in Clause 1.4.11 must be disclosed. This includes the maximum number of rows that can be inserted and the maximum key value for these new rows. (8.1.2.3)

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

1.4. Partitioning

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

Partitioning was not used for any table in this implementation.

1.5. Replication, Duplication or Additions

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

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

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

2.

Clause 2: Transaction & Terminal Profiles

2.1. Random Number Generation

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

The drivers used the Unisys RTE program, which was independently audited. The initial population of the database was performed by the loader program from V4.21 of the Microsoft TPC-C toolkit, which was also independently audited. Furthermore, the auditor sampled various initial and runtime distributions produced by this implementation to verify correctness.

2.2. Input/Output Screen Layout

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

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

2.3. Priced Terminal Feature Verification

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

This was verified by the auditor.

2.4. Presentation Managers or Intelligent Terminal

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

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

2.5. Transaction Statistics

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

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

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

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

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

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

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

Table 5.4 in Section 5 contains all these statistics.

2.6. Queuing Mechanism of Delivery

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

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

3.

Clause 3: Transaction & System Properties

3.1. Transaction System Properties (ACID)

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

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

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

3.2. Atomicity

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

3.2.1. Completed Transaction

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

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

3.2.2. Aborted Transactions

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

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

3.3. Consistency

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

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

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

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

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

3.4. Isolation

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

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

3.5. Durability

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

Three durability tests were executed to satisfy the requirements of the specification. The tests for loss of memory and instantaneous interruption were combined and performed with a fully scaled database with all emulated users. The loss of log and loss of data tests were performed on the same database with 18,880 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 18,880 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 18,880 users. On the driver systems, committed and rolled back New-Order transactions were recorded in a “success” file.
4. After five minutes of running at steady state, a hot-pluggable log disk was removed from the disk cabinet, with no effect on the OS or SQL server.
5. After 5 additional minutes of operation, a hot-pluggable data disk was removed from the disk cabinet.
6. Windows Datacenter and SQL Server encountered IO errors due to the missing disk and recorded these errors in the system event log and SQL Server error log, respectively. The RTEs also recorded errors.
7. First, the RTEs and clients were stopped, 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 Navisphere Manager, was used to recreate the stripe set containing the new data disk. (The missing log drive was not replaced.)
10. The SUT was restarted, SQL Server was then restarted, and a new (empty) database created as part of the restore database process. That process loaded the initial database into the new database, but did not perform any recovery. Next the transaction log was restored, followed by transaction recovery. The latter step restored all committed transactions to the database.
11. Consistency condition 3 of Clause 3.3.2.3 was executed to verify database consistency.
12. Step 2 was repeated to determine the total number of orders. This number was subtracted from the count obtained previously in Step 2 to determine the number of additional orders added to the database.
13. The contents of the “success” files on the drivers were sampled to verify that the records in the “success” file for committed New-Order transactions had corresponding records in the ORDER table. Moreover, the counts were matched with those obtained in step 12.

3.5.2. Instantaneous Interruption and Loss of Memory

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

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

9. The contents of the “success” files on the drivers were sampled to verify that the records in the “success” file for committed New-Order transactions had corresponding records in the ORDER table.

4.

Clause 4: Scaling & Database Population

4.1. Initial Cardinality of Tables

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

The TPC-C database for this test was configured with 19,040 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	19,040
District	190,400
Customer	571,200,000
History	571,200,000
Order	571,200,000
New-Order	171,360,000
Order Line	5,711,986,214
Stock	1,904,000,000
Item	100,000

280 rows of 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 4.4 list the distribution of the database over 796 18GB disks and the transaction log over 16 mirrored pairs of 36GB disks for the benchmark configuration. In addition, there were two 36GB disks in the host server, one containing Windows .NET Server 2003 Datacenter Edition and SQL Server 2000 code and the Master database plus the paging file. Unused-space partitions on the database drives were used for database backup. These partitions were not used during the measurements. The tested and priced disk configurations were identical.

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

A statement must be provided that describes: (8.1.5.3)

1. *The data model implemented by the DBMS used (e.g., relational, network, hierarchical).*
2. *The database interface (e.g., embedded, call level) and access language (e.g., SQL, DL/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 2000 is a relational DBMS.

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

4.5. DBMS Partitions/Replications

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

No table partitioning or replication was done.

4.6. DBMS Space Requirements

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

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

Table 4.3: Disk Rack Configuration

Disk Rack Configuration															
ESM7900 DPE	Bus	DAE	RAID Level	Lun Capacity	Id 0	Id 1	Id 2	Id 3	Id 4	Id 5	Id 6	Id 7	Id 8	Id 9	
1 Cab A	0		10	261.98 GB	36GB	36GB	36GB*	36GB*	36GB	36GB	36GB	36GB	36GB	36GB	
	1	1	10		36GB	36GB	Empty	Empty	36GB	36GB	36GB	36GB	36GB	36GB	36GB
	0	2	10		36GB	36GB	Empty	Empty	36GB	36GB	36GB	36GB	36GB	36GB	36GB
	1	3	10		36GB	36GB	Empty	Empty	36GB	36GB	36GB	36GB	36GB	36GB	36GB
	0	4	0	102.27 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	5	0	102.27GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	6	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	7	0	98.11GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	2 Cab B	0		0	98.11 GB	18GB	18GB	18GB*	18GB*	18GB	18GB	18GB	18GB	18GB	18GB
		0	8	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
0		9	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
0		10	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
0		11	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		12	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		13	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		14	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		15	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
3 Cab C		0		0	98.11 GB	18GB	18GB	18GB*	18GB*	18GB	18GB	18GB	18GB	18GB	18GB
	0	16	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	0	17	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	0	18	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	0	19	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	1	20	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	1	21	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	1	22	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	1	23	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	4 Cab D	0		0	98.11 GB	18GB	18GB	18GB*	18GB*	18GB	18GB	18GB	18GB	18GB	18GB
0		24	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
0		25	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
0		26	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
0		27	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		28	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		29	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		30	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		31	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
5 Cab E		0		0	98.11 GB	18GB	18GB	18GB*	18GB*	18GB	18GB	18GB	18GB	18GB	18GB
	0	32	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	0	33	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	0	34	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	0	35	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	1	36	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	1	37	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	1	38	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	1	39	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
	6 Cab F	0		0	98.11 GB	18GB	18GB	18GB*	18GB*	18GB	18GB	18GB	18GB	18GB	18GB
0		40	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
0		41	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
0		42	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
0		43	0	18GB		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		44	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		45	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		46	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	
1		47	0	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	

* = used for DPE controller PSM Function, not used for Database or Log

Table 4.3: Disk Rack Configuration (Continued)

Disk Rack Configuration														
ESM7900 DPE	Bus	DAE	RAID Level	Lun Capacity	Id 0	Id 1	Id 2	Id 3	Id 4	Id 5	Id 6	Id 7	Id 8	Id 9
7 Cab G	0		0	98.11 GB	18GB	18GB	18GB*	18GB*	18GB	18GB	18GB	18GB	18GB	18GB
	0	48	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	49	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	50	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	51	0		18GB	18GB	18GB	18GB	18GB	18GB	Empty	Empty	Empty	Empty
	1	52	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	53	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	54	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	55	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
						18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
8 Cab H	0		0	98.11 GB	18GB	18GB	18GB*	18GB*	18GB	18GB	18GB	18GB	18GB	18GB
	0	56	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	57	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	58	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	59	0		18GB	18GB	18GB	18GB	18GB	18GB	Empty	Empty	Empty	Empty
	1	60	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	61	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	62	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	63	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
						18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
9 Cab I	0		0	98.11 GB	18GB	18GB	18GB*	18GB*	18GB	18GB	18GB	18GB	18GB	18GB
	0	64	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	65	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	66	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	67	0		18GB	18GB	18GB	18GB	18GB	18GB	Empty	Empty	Empty	Empty
	1	68	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	69	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	70	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	71	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
						18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
10 Cab J	0		0	98.11 GB	18GB	18GB	18GB*	18GB*	18GB	18GB	18GB	18GB	18GB	18GB
	0	72	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	73	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	74	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	0	75	0		18GB	18GB	18GB	18GB	18GB	18GB	Empty	Empty	Empty	Empty
	1	76	0	98.11 GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	77	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	78	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
	1	79	0		18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB
						18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB	18GB

* = used for DPE controller PSM Function, not used for Database or Log

Table 4.4: Disk Management Configuration

Disk Management Configuration			
System Disks	Logical Disk#	Partition 1 Drive Letter	File System
36 GB SCSI disk	0	C: System	NTFS
36 GB SCSI disk	1	D: No label	NTFS
CD-ROM	CD-ROM 0	F:	

ESM7900 DPE	SP	Partition 1 Size=261.98GB FS=Raw Junction Point
1	A	C:\BigDb\dbLogs\tpcclog2 C:\BigDb\dbLogs\tpcclog1

Disk Management Configuration					
ESM7900 DPE	SP	Partition 1 Size=2.96GB FS=Raw Junction Point	Partition 2 Size=5.65GB FS=Raw Junction Point	Partition 3 Size=3.57GB FS=Raw Junction Point	Partition 4 Size=102.27GB FS=NTFS Junction Point
1	B	C:\BigDb\cabA\misc1	C:\BigDb\cabA\cs1	C:\BigDb\cabA\ord1	C:\BigDb\dbBackups\backupA1
	B	C:\BigDb\cabA\misc2	C:\BigDb\cabA\cs2	C:\BigDb\cabA\ord2	C:\BigDb\dbBackups\backupA2
1	B	C:\BigDb\cabA\misc3	C:\BigDb\cabA\cs3	C:\BigDb\cabA\ord3	C:\BigDb\dbBackups\backupA3
	B	C:\BigDb\cabA\misc4	C:\BigDb\cabA\cs4	C:\BigDb\cabA\ord4	C:\BigDb\dbBackups\backupA4
1	B	C:\BigDb\cabA\misc5	C:\BigDb\cabA\cs5	C:\BigDb\cabA\ord5	C:\BigDb\dbBackups\backupA5
	B	C:\BigDb\cabA\misc6	C:\BigDb\cabA\cs6	C:\BigDb\cabA\ord6	C:\BigDb\dbBackups\backupA6
2	A	C:\BigDb\cabB\misc1	C:\BigDb\cabB\cs1	C:\BigDb\cabB\ord1	Unallocated
	A	C:\BigDb\cabB\misc2	C:\BigDb\cabB\cs2	C:\BigDb\cabB\ord2	Unallocated
	A	C:\BigDb\cabB\misc3	C:\BigDb\cabB\cs3	C:\BigDb\cabB\ord3	Unallocated
	A	C:\BigDb\cabB\misc4	C:\BigDb\cabB\cs4	C:\BigDb\cabB\ord4	Unallocated
	B	C:\BigDb\cabB\misc5	C:\BigDb\cabB\cs5	C:\BigDb\cabB\ord5	Unallocated
	B	C:\BigDb\cabB\misc6	C:\BigDb\cabB\cs6	C:\BigDb\cabB\ord6	Unallocated
	B	C:\BigDb\cabB\misc7	C:\BigDb\cabB\cs7	C:\BigDb\cabB\ord7	Unallocated
	B	C:\BigDb\cabB\misc8	C:\BigDb\cabB\cs8	C:\BigDb\cabB\ord8	Unallocated
	B	C:\BigDb\cabB\misc9	C:\BigDb\cabB\cs9	C:\BigDb\cabB\ord9	Unallocated
	B	C:\BigDb\cabB\misc10	C:\BigDb\cabB\cs10	C:\BigDb\cabB\ord10	Unallocated
	B	C:\BigDb\cabB\misc11	C:\BigDb\cabB\cs11	C:\BigDb\cabB\ord11	Unallocated
	A	C:\BigDb\cabB\misc12	C:\BigDb\cabB\cs12	C:\BigDb\cabB\ord12	Unallocated
	A	C:\BigDb\cabB\misc13	C:\BigDb\cabB\cs13	C:\BigDb\cabB\ord13	C:\BigDb\dbBackups\backupB13
	A	C:\BigDb\cabB\misc14	C:\BigDb\cabB\cs14	C:\BigDb\cabB\ord14	C:\BigDb\dbBackups\backupB14
3	A	C:\BigDb\cabC\misc1	C:\BigDb\cabC\cs1	C:\BigDb\cabC\ord1	Unallocated
	A	C:\BigDb\cabC\misc2	C:\BigDb\cabC\cs2	C:\BigDb\cabC\ord2	Unallocated
	A	C:\BigDb\cabC\misc3	C:\BigDb\cabC\cs3	C:\BigDb\cabC\ord3	Unallocated
	A	C:\BigDb\cabC\misc4	C:\BigDb\cabC\cs4	C:\BigDb\cabC\ord4	Unallocated
	B	C:\BigDb\cabC\misc5	C:\BigDb\cabC\cs5	C:\BigDb\cabC\ord5	Unallocated
	B	C:\BigDb\cabC\misc6	C:\BigDb\cabC\cs6	C:\BigDb\cabC\ord6	Unallocated
	B	C:\BigDb\cabC\misc7	C:\BigDb\cabC\cs7	C:\BigDb\cabC\ord7	Unallocated
	B	C:\BigDb\cabC\misc8	C:\BigDb\cabC\cs8	C:\BigDb\cabC\ord8	Unallocated
	B	C:\BigDb\cabC\misc9	C:\BigDb\cabC\cs9	C:\BigDb\cabC\ord9	Unallocated
	B	C:\BigDb\cabC\misc10	C:\BigDb\cabC\cs10	C:\BigDb\cabC\ord10	Unallocated
	B	C:\BigDb\cabC\misc11	C:\BigDb\cabC\cs11	C:\BigDb\cabC\ord11	Unallocated
	A	C:\BigDb\cabC\misc12	C:\BigDb\cabC\cs12	C:\BigDb\cabC\ord12	Unallocated
	A	C:\BigDb\cabC\misc13	C:\BigDb\cabC\cs13	C:\BigDb\cabC\ord13	C:\BigDb\dbBackups\backupC13
	A	C:\BigDb\cabC\misc14	C:\BigDb\cabC\cs14	C:\BigDb\cabC\ord14	C:\BigDb\dbBackups\backupC14

Table 4.4: Disk Management Configuration (Continued)

Disk Management Configuration						
ESM7900	DPE	SP	Partition 1	Partition 2	Partition 3	Partition 4
			Size=2.96GB	Size=5.66GB	Size=3.57GB	Size=85.90GB
			FS=Raw	FS=Raw	FS=Raw	FS=NTFS
			Junction Point	Junction Point	Junction Point	Junction Point
4	A	C:\BigDb\cabD\misc1	C:\BigDb\cabD\cs1	C:\BigDb\cabD\ord1	Unallocated	
	A	C:\BigDb\cabD\misc2	C:\BigDb\cabD\cs2	C:\BigDb\cabD\ord2	Unallocated	
	A	C:\BigDb\cabD\misc3	C:\BigDb\cabD\cs3	C:\BigDb\cabD\ord3	Unallocated	
	A	C:\BigDb\cabD\misc4	C:\BigDb\cabD\cs4	C:\BigDb\cabD\ord4	Unallocated	
	B	C:\BigDb\cabD\misc5	C:\BigDb\cabD\cs5	C:\BigDb\cabD\ord5	Unallocated	
	B	C:\BigDb\cabD\misc6	C:\BigDb\cabD\cs6	C:\BigDb\cabD\ord6	Unallocated	
	B	C:\BigDb\cabD\misc7	C:\BigDb\cabD\cs7	C:\BigDb\cabD\ord7	Unallocated	
	B	C:\BigDb\cabD\misc8	C:\BigDb\cabD\cs8	C:\BigDb\cabD\ord8	Unallocated	
	B	C:\BigDb\cabD\misc9	C:\BigDb\cabD\cs9	C:\BigDb\cabD\ord9	Unallocated	
	B	C:\BigDb\cabD\misc10	C:\BigDb\cabD\cs10	C:\BigDb\cabD\ord10	Unallocated	
	B	C:\BigDb\cabD\misc11	C:\BigDb\cabD\cs11	C:\BigDb\cabD\ord11	Unallocated	
	A	C:\BigDb\cabD\misc12	C:\BigDb\cabD\cs12	C:\BigDb\cabD\ord12	Unallocated	
	A	C:\BigDb\cabD\misc13	C:\BigDb\cabD\cs13	C:\BigDb\cabD\ord13	C:\BigDb\dbBackups\backupD13	
	A	C:\BigDb\cabD\misc14	C:\BigDb\cabD\cs14	C:\BigDb\cabD\ord14	C:\BigDb\dbBackups\backupD14	
5	A	C:\BigDb\cabE\misc1	C:\BigDb\cabE\cs1	C:\BigDb\cabE\ord1	Unallocated	
	A	C:\BigDb\cabE\misc2	C:\BigDb\cabE\cs2	C:\BigDb\cabE\ord2	Unallocated	
	A	C:\BigDb\cabE\misc3	C:\BigDb\cabE\cs3	C:\BigDb\cabE\ord3	Unallocated	
	A	C:\BigDb\cabE\misc4	C:\BigDb\cabE\cs4	C:\BigDb\cabE\ord4	Unallocated	
	B	C:\BigDb\cabE\misc5	C:\BigDb\cabE\cs5	C:\BigDb\cabE\ord5	Unallocated	
	B	C:\BigDb\cabE\misc6	C:\BigDb\cabE\cs6	C:\BigDb\cabE\ord6	Unallocated	
	B	C:\BigDb\cabE\misc7	C:\BigDb\cabE\cs7	C:\BigDb\cabE\ord7	Unallocated	
	B	C:\BigDb\cabE\misc8	C:\BigDb\cabE\cs8	C:\BigDb\cabE\ord8	Unallocated	
	B	C:\BigDb\cabE\misc9	C:\BigDb\cabE\cs9	C:\BigDb\cabE\ord9	Unallocated	
	B	C:\BigDb\cabE\misc10	C:\BigDb\cabE\cs10	C:\BigDb\cabE\ord10	Unallocated	
	B	C:\BigDb\cabE\misc11	C:\BigDb\cabE\cs11	C:\BigDb\cabE\ord11	Unallocated	
	A	C:\BigDb\cabE\misc12	C:\BigDb\cabE\cs12	C:\BigDb\cabE\ord12	Unallocated	
	A	C:\BigDb\cabE\misc13	C:\BigDb\cabE\cs13	C:\BigDb\cabE\ord13	C:\BigDb\dbBackups\backupE13	
	A	C:\BigDb\cabE\misc14	C:\BigDb\cabE\cs14	C:\BigDb\cabE\ord14	C:\BigDb\dbBackups\backupE14	
6	A	C:\BigDb\cabF\misc1	C:\BigDb\cabF\cs1	C:\BigDb\cabF\ord1	Unallocated	
	A	C:\BigDb\cabF\misc2	C:\BigDb\cabF\cs2	C:\BigDb\cabF\ord2	Unallocated	
	A	C:\BigDb\cabF\misc3	C:\BigDb\cabF\cs3	C:\BigDb\cabF\ord3	Unallocated	
	A	C:\BigDb\cabF\misc4	C:\BigDb\cabF\cs4	C:\BigDb\cabF\ord4	Unallocated	
	B	C:\BigDb\cabF\misc5	C:\BigDb\cabF\cs5	C:\BigDb\cabF\ord5	Unallocated	
	B	C:\BigDb\cabF\misc6	C:\BigDb\cabF\cs6	C:\BigDb\cabF\ord6	Unallocated	
	B	C:\BigDb\cabF\misc7	C:\BigDb\cabF\cs7	C:\BigDb\cabF\ord7	Unallocated	
	B	C:\BigDb\cabF\misc8	C:\BigDb\cabF\cs8	C:\BigDb\cabF\ord8	Unallocated	
	B	C:\BigDb\cabF\misc9	C:\BigDb\cabF\cs9	C:\BigDb\cabF\ord9	Unallocated	
	B	C:\BigDb\cabF\misc10	C:\BigDb\cabF\cs10	C:\BigDb\cabF\ord10	Unallocated	
	B	C:\BigDb\cabF\misc11	C:\BigDb\cabF\cs11	C:\BigDb\cabF\ord11	Unallocated	
	A	C:\BigDb\cabF\misc12	C:\BigDb\cabF\cs12	C:\BigDb\cabF\ord12	Unallocated	
	A	C:\BigDb\cabF\misc13	C:\BigDb\cabF\cs13	C:\BigDb\cabF\ord13	C:\BigDb\dbBackups\backupF13	
	A	C:\BigDb\cabF\misc14	C:\BigDb\cabF\cs14	C:\BigDb\cabF\ord14	C:\BigDb\dbBackups\backupF14	
7	A	C:\BigDb\cabG\misc1	C:\BigDb\cabG\cs1	C:\BigDb\cabG\ord1	Unallocated	
	A	C:\BigDb\cabG\misc2	C:\BigDb\cabG\cs2	C:\BigDb\cabG\ord2	Unallocated	
	A	C:\BigDb\cabG\misc3	C:\BigDb\cabG\cs3	C:\BigDb\cabG\ord3	Unallocated	
	A	C:\BigDb\cabG\misc4	C:\BigDb\cabG\cs4	C:\BigDb\cabG\ord4	Unallocated	
	B	C:\BigDb\cabG\misc5	C:\BigDb\cabG\cs5	C:\BigDb\cabG\ord5	Unallocated	
	B	C:\BigDb\cabG\misc6	C:\BigDb\cabG\cs6	C:\BigDb\cabG\ord6	Unallocated	
	B	C:\BigDb\cabG\misc7	C:\BigDb\cabG\cs7	C:\BigDb\cabG\ord7	Unallocated	
	B	C:\BigDb\cabG\misc8	C:\BigDb\cabG\cs8	C:\BigDb\cabG\ord8	Unallocated	
	B	C:\BigDb\cabG\misc9	C:\BigDb\cabG\cs9	C:\BigDb\cabG\ord9	Unallocated	
	B	C:\BigDb\cabG\misc10	C:\BigDb\cabG\cs10	C:\BigDb\cabG\ord10	Unallocated	
	B	C:\BigDb\cabG\misc11	C:\BigDb\cabG\cs11	C:\BigDb\cabG\ord11	Unallocated	
	A	C:\BigDb\cabG\misc12	C:\BigDb\cabG\cs12	C:\BigDb\cabG\ord12	Unallocated	
	A	C:\BigDb\cabG\misc13	C:\BigDb\cabG\cs13	C:\BigDb\cabG\ord13	C:\BigDb\dbBackups\backupG13	
	A	C:\BigDb\cabG\misc14	C:\BigDb\cabG\cs14	C:\BigDb\cabG\ord14	C:\BigDb\dbBackups\backupG14	

Table 4.4: Disk Management Configuration (Continued)

Disk Management Configuration					
ESM7900 DPE	SP	Partition 1	Partition 2	Partition 3	Partition 4
		Size=2.96GB FS=Raw Junction Point	Size=5.66GB FS=Raw Junction Point	Size=3.58GB FS=Raw Junction Point	Size=85.90GB FS=NTFS Junction Point
8	A	C:\BigDb\cabH\misc1	C:\BigDb\cabH\cs1	C:\BigDb\cabH\ord1	Unallocated
	A	C:\BigDb\cabH\misc2	C:\BigDb\cabH\cs2	C:\BigDb\cabH\ord2	Unallocated
	A	C:\BigDb\cabH\misc3	C:\BigDb\cabH\cs3	C:\BigDb\cabH\ord3	Unallocated
	A	C:\BigDb\cabH\misc4	C:\BigDb\cabH\cs4	C:\BigDb\cabH\ord4	Unallocated
	B	C:\BigDb\cabH\misc5	C:\BigDb\cabH\cs5	C:\BigDb\cabH\ord5	Unallocated
	B	C:\BigDb\cabH\misc6	C:\BigDb\cabH\cs6	C:\BigDb\cabH\ord6	Unallocated
	B	C:\BigDb\cabH\misc7	C:\BigDb\cabH\cs7	C:\BigDb\cabH\ord7	Unallocated
	B	C:\BigDb\cabH\misc8	C:\BigDb\cabH\cs8	C:\BigDb\cabH\ord8	Unallocated
	B	C:\BigDb\cabH\misc9	C:\BigDb\cabH\cs9	C:\BigDb\cabH\ord9	Unallocated
	B	C:\BigDb\cabH\misc10	C:\BigDb\cabH\cs10	C:\BigDb\cabH\ord10	Unallocated
	B	C:\BigDb\cabH\misc11	C:\BigDb\cabH\cs11	C:\BigDb\cabH\ord11	Unallocated
	A	C:\BigDb\cabH\misc12	C:\BigDb\cabH\cs12	C:\BigDb\cabH\ord12	Unallocated
	A	C:\BigDb\cabH\misc13	C:\BigDb\cabH\cs13	C:\BigDb\cabH\ord13	C:\BigDb\dbBackups\backupH13
	A	C:\BigDb\cabH\misc14	C:\BigDb\cabH\cs14	C:\BigDb\cabH\ord14	C:\BigDb\dbBackups\backupH14
9	A	C:\BigDb\cabI\misc1	C:\BigDb\cabI\cs1	C:\BigDb\cabI\ord1	Unallocated
	A	C:\BigDb\cabI\misc2	C:\BigDb\cabI\cs2	C:\BigDb\cabI\ord2	Unallocated
	A	C:\BigDb\cabI\misc3	C:\BigDb\cabI\cs3	C:\BigDb\cabI\ord3	Unallocated
	A	C:\BigDb\cabI\misc4	C:\BigDb\cabI\cs4	C:\BigDb\cabI\ord4	Unallocated
	B	C:\BigDb\cabI\misc5	C:\BigDb\cabI\cs5	C:\BigDb\cabI\ord5	Unallocated
	B	C:\BigDb\cabI\misc6	C:\BigDb\cabI\cs6	C:\BigDb\cabI\ord6	Unallocated
	B	C:\BigDb\cabI\misc7	C:\BigDb\cabI\cs7	C:\BigDb\cabI\ord7	Unallocated
	B	C:\BigDb\cabI\misc8	C:\BigDb\cabI\cs8	C:\BigDb\cabI\ord8	Unallocated
	B	C:\BigDb\cabI\misc9	C:\BigDb\cabI\cs9	C:\BigDb\cabI\ord9	Unallocated
	B	C:\BigDb\cabI\misc10	C:\BigDb\cabI\cs10	C:\BigDb\cabI\ord10	Unallocated
	B	C:\BigDb\cabI\misc11	C:\BigDb\cabI\cs11	C:\BigDb\cabI\ord11	Unallocated
	A	C:\BigDb\cabI\misc12	C:\BigDb\cabI\cs12	C:\BigDb\cabI\ord12	Unallocated
	A	C:\BigDb\cabI\misc13	C:\BigDb\cabI\cs13	C:\BigDb\cabI\ord13	C:\BigDb\dbBackups\backupI13
	A	C:\BigDb\cabI\misc14	C:\BigDb\cabI\cs14	C:\BigDb\cabI\ord14	C:\BigDb\dbBackups\backupI14
10	A	C:\BigDb\cabJ\misc1	C:\BigDb\cabJ\cs1	C:\BigDb\cabJ\ord1	Unallocated
	A	C:\BigDb\cabJ\misc2	C:\BigDb\cabJ\cs2	C:\BigDb\cabJ\ord2	Unallocated
	A	C:\BigDb\cabJ\misc3	C:\BigDb\cabJ\cs3	C:\BigDb\cabJ\ord3	Unallocated
	A	C:\BigDb\cabJ\misc4	C:\BigDb\cabJ\cs4	C:\BigDb\cabJ\ord4	Unallocated
	B	C:\BigDb\cabJ\misc5	C:\BigDb\cabJ\cs5	C:\BigDb\cabJ\ord5	Unallocated
	B	C:\BigDb\cabJ\misc6	C:\BigDb\cabJ\cs6	C:\BigDb\cabJ\ord6	Unallocated
	B	C:\BigDb\cabJ\misc7	C:\BigDb\cabJ\cs7	C:\BigDb\cabJ\ord7	Unallocated
	B	C:\BigDb\cabJ\misc8	C:\BigDb\cabJ\cs8	C:\BigDb\cabJ\ord8	Unallocated
	B	C:\BigDb\cabJ\misc9	C:\BigDb\cabJ\cs9	C:\BigDb\cabJ\ord9	Unallocated
	B	C:\BigDb\cabJ\misc10	C:\BigDb\cabJ\cs10	C:\BigDb\cabJ\ord10	Unallocated
	B	C:\BigDb\cabJ\misc11	C:\BigDb\cabJ\cs11	C:\BigDb\cabJ\ord11	Unallocated
	A	C:\BigDb\cabJ\misc12	C:\BigDb\cabJ\cs12	C:\BigDb\cabJ\ord12	Unallocated
	A	C:\BigDb\cabJ\misc13	C:\BigDb\cabJ\cs13	C:\BigDb\cabJ\ord13	C:\BigDb\dbBackups\backupJ13
	A	C:\BigDb\cabJ\misc14	C:\BigDb\cabJ\cs14	C:\BigDb\cabJ\ord14	C:\BigDb\dbBackups\backupJ14

Table 4.5: Fibre Channel Switch Connections

Fibre Channel Switch Connections																
Port No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Switch # 1	HBA-1 Port 1	HBA-4 Port 1	HBA-7 Port 1	empty	empty	empty	Cab B SPB	Cab C SPA	Cab E SPB	Cab F SPA	Cab H SPB	Cab I SPA	Sw3-14	Sw3-15	Sw2-14	Sw2-15
Switch # 2	HBA-2 Port 1	HBA-5 Port 1	HBA-8 Port 1	empty	empty	Cab A SPB	Cab B SPA	Cab D SPB	Cab E SPA	Cab G SPB	Cab H SPA	Cab J SPB	Sw3-12	Sw3-13	Sw1-14	Sw1-15
Switch # 3	HBA-3 Port 1	HBA-6 Port 1	empty	empty	empty	empty	Cab C SPB	Cab D SPA	Cab F SPB	Cab G SPA	Cab I SPB	Cab J SPA	Sw2-12	Sw2-13	Sw1-12	Sw1-13

Table 4.6: Server HBA-PCI Slot Map

ES7000 Orion 230 FRONT								ES7000 Orion 230 REAR								
POD 0				POD 1				POD 3				POD 2				
CPU #	3			3	CPU #			CPU #	3			3	CPU #			
SUB-POD	2			2	SUB-POD			SUB-POD	2			2	SUB-POD			
0-1	1	M	M	1	1-1			3-1	1	M	M	1	2-1			
	0	S	S	0					0	S	S	0				
		U	U							U	U					
CPU #	3			3	CPU #			CPU #	3			3	CPU #			
SUB-POD	2			2	SUB-POD			SUB-POD	2	1	0	2	SUB-POD			
0-0	1		2	1	1-0			3-0	1			1	2-0			
	0		3	0					0			0				
PCI Card Slots								PCI Card Slots								
DIBX 0-1		DIBX 0-0		DIBX 1-1		DIBX 1-0		DIBX 3-1		DIBX 3-0		DIBX 2-1		DIBX 2-0		
0-1-1		0-0-1		1-1-1		1-0-1		3-1-1		3-0-1		2-1-1		2-0-1		
Slot #	0	FC LOG	0	Slot #	0	Slot #	0	Slot #	0	Slot #	0	Slot #	0	Slot #	0	
	1		1		1		1		1		1		1		1	
	2		2		2		2		2		2		2		2	
	3		3		3		3		3		3		3		3	
0-1-2		0-0-2		1-1-2		1-0-2		3-1-2		3-0-2		2-1-2		2-0-2		
FC HBA-2	0	FC HBA-1	0	FC HBA-4	0	FC HBA-3	0	FC HBA-8	0	FC HBA-7	0	FC HBA-6	0	FC HBA-5	0	
	1	Boot Cntl	1		1		1		1		1		1		1	
	2		2		2		2		2		2		2		2	
	3		3		3		3		3		3		3		3	
0-1-3		0-0-3		1-1-3		1-0-3		3-1-3		3-0-3		2-1-3		2-0-3		
100 Mbit	0	Floppy	0		0		0		0		0		0		0	
	1	CPB	1		1		1		1		1		1		1	
	2	Uniscreeen	2		2		2		2		2		2		2	
cLAN-2	3	cLAN-1	3	cLAN-4	3	cLAN-3	3	cLAN-8	3	cLAN-7	3	cLAN-6	3	cLAN-5	3	

5. Clause 5: Performance Metrics & Response Time

5.1. Measured Throughput (tpmC)

Measured tpmC must be reported. (8.1.6.1)

The measured tpmC was 234,325.10.

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	0.35	10.91	0.50
Payment	0.30	5.48	0.43
Order Status	0.33	15.56	0.48
Delivery (interactive)	0.20	2.75	0.29
Delivery (deferred)	0.26	2.83	0.38
Stock-Level	1.00	6.08	1.40
Menu	0.20	3.34	0.29

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	120.33
Order Status	0.00	10.07	100.70
Delivery (interactive)	0.00	5.06	50.61
Stock-Level	0.00	5.06	50.61

5.4. Response Time Frequency Distribution Curves

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

Figure 5.1: New Order Response Time Distribution

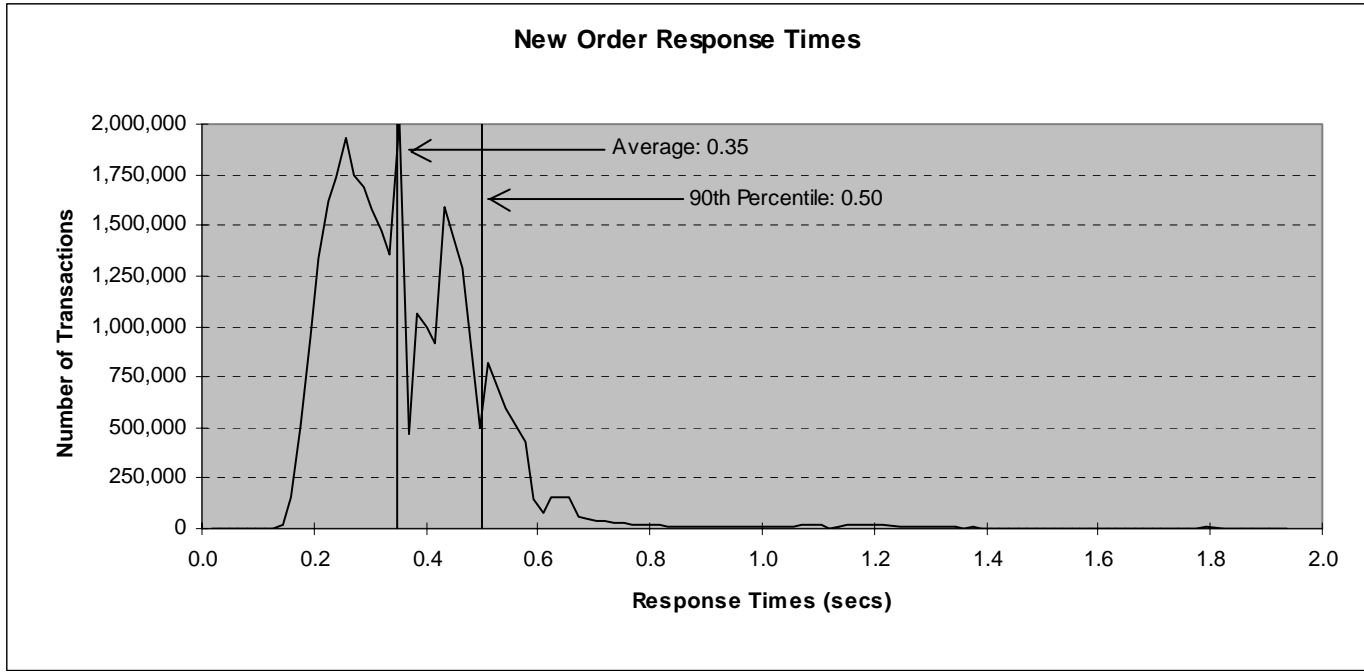


Figure 5.2: Payment Response Time Distribution

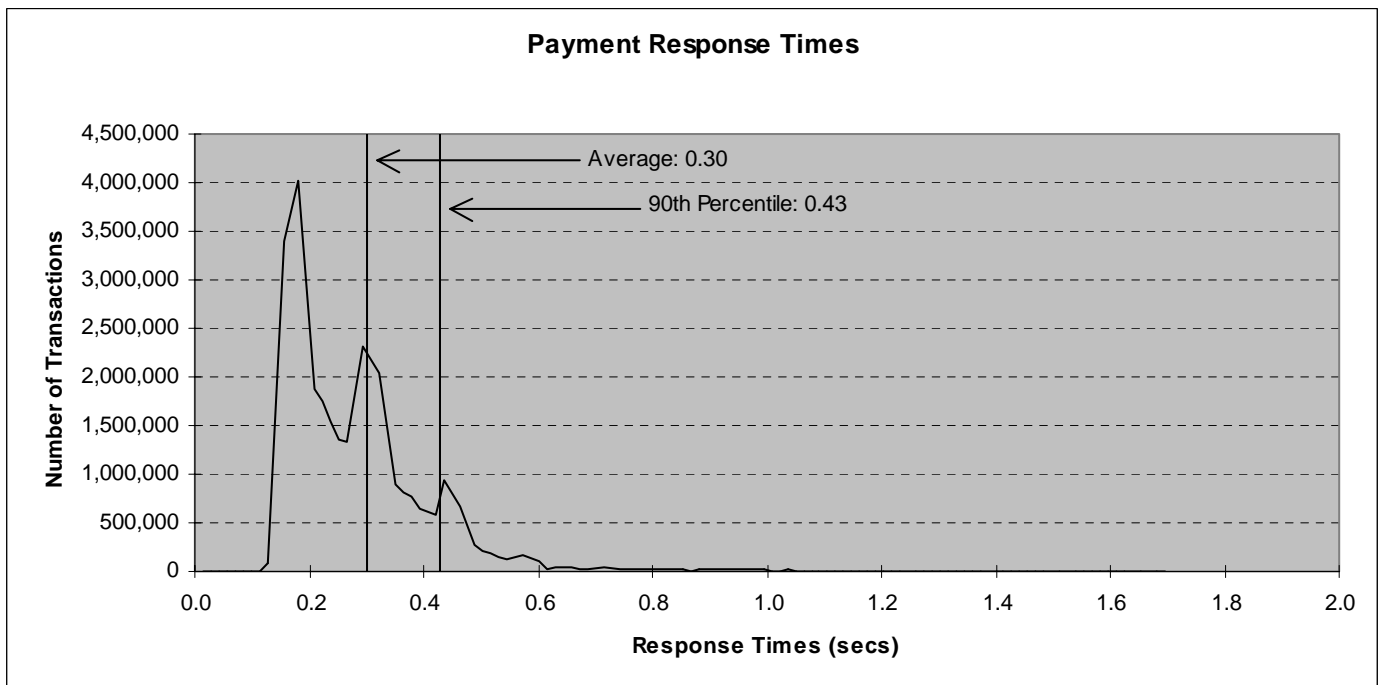


Figure 5.3: Order Status Response Time Distribution

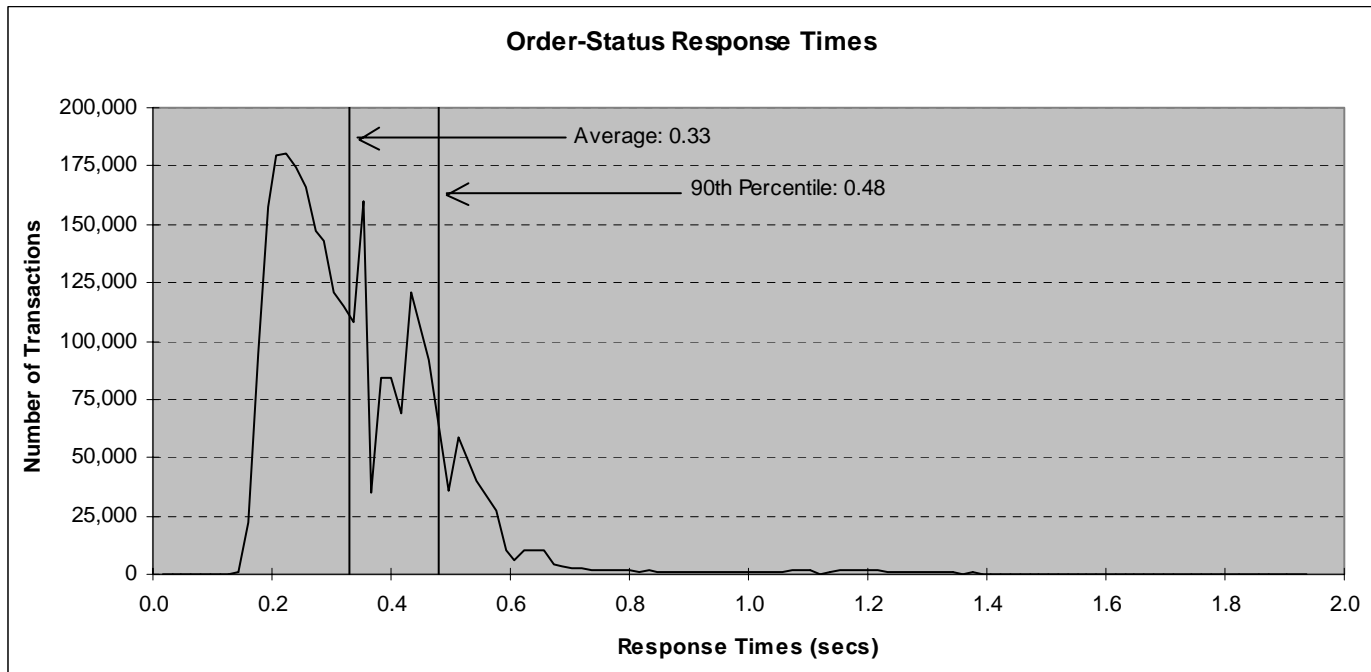


Figure 5.4: Delivery Response Time Distribution

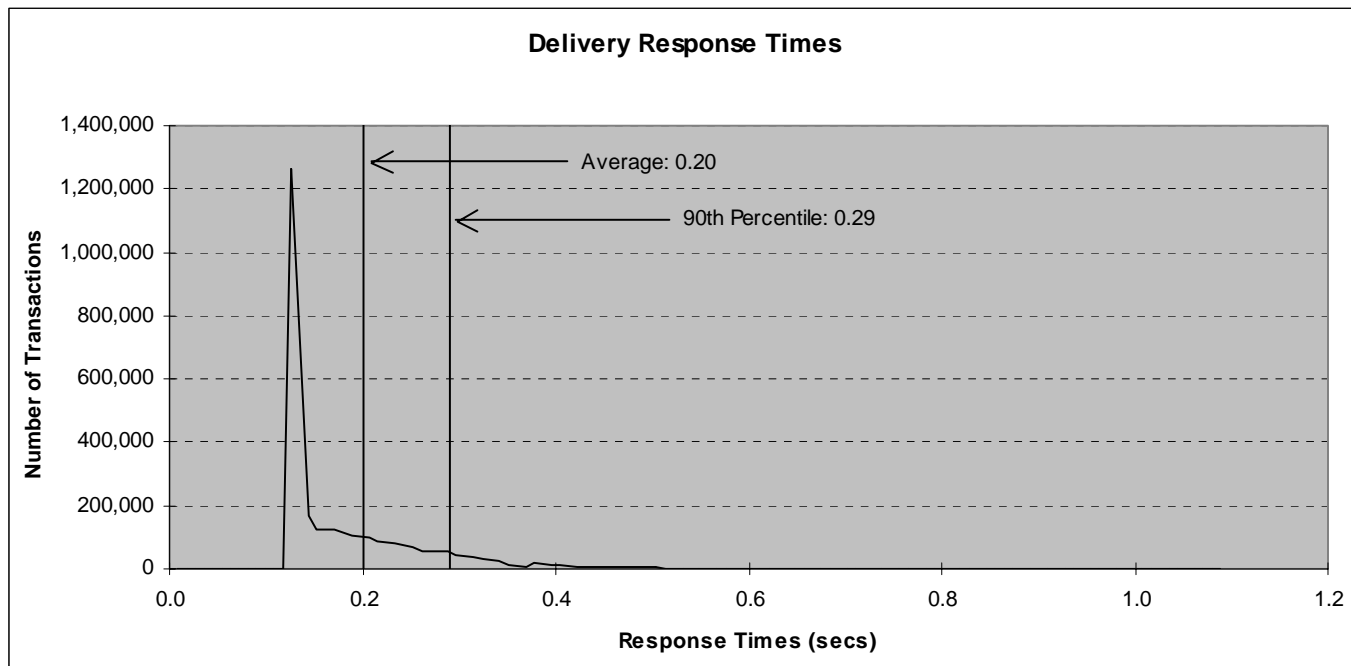
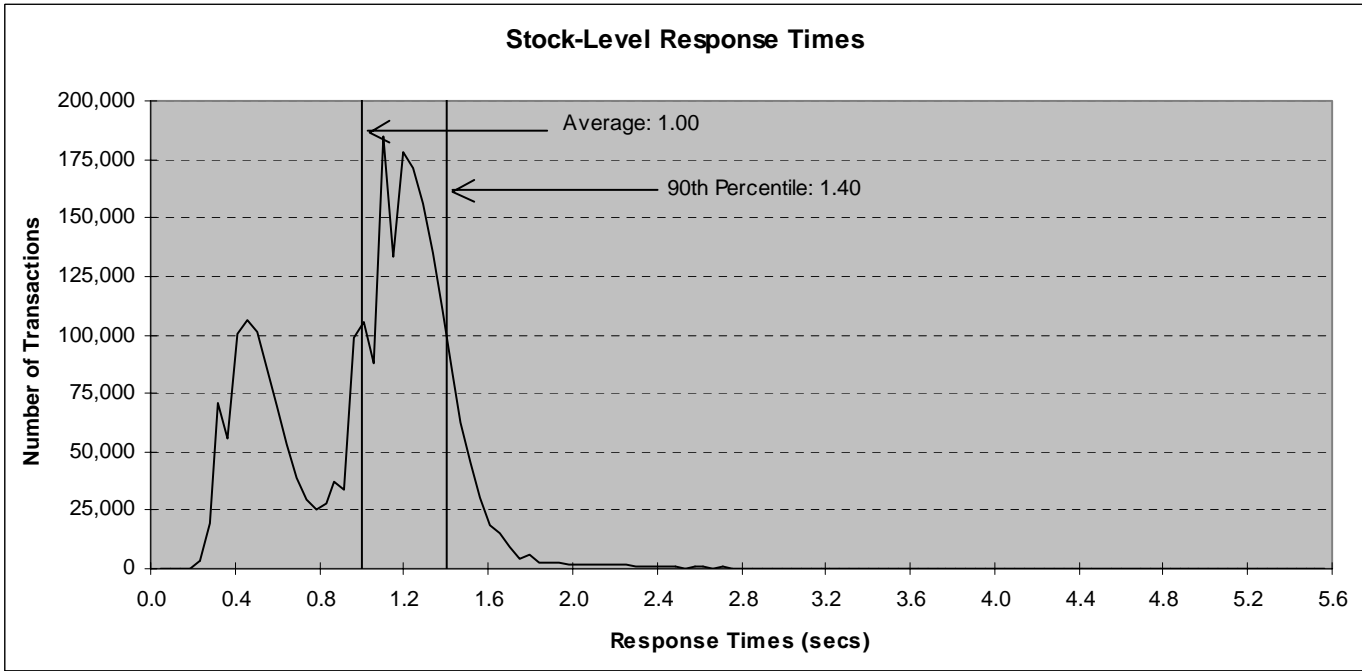


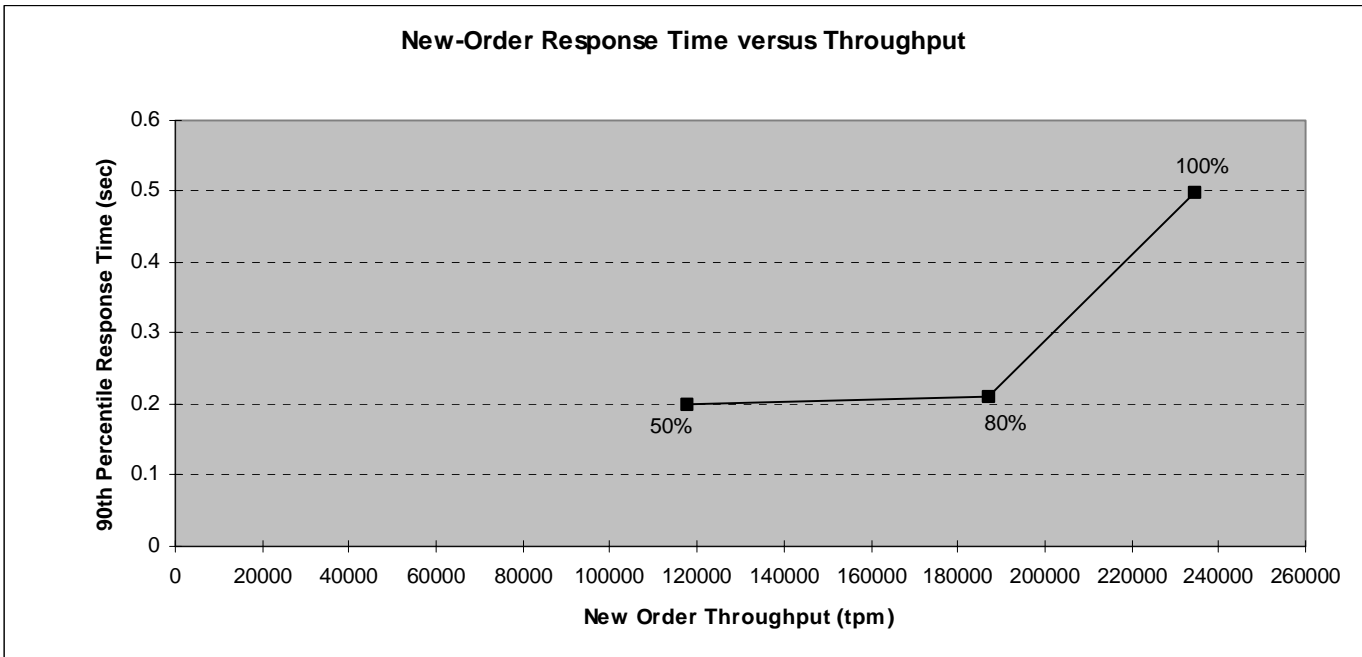
Figure 5.5: Stock Level Response Time Distribution



5.5. Response Time versus Throughput Performance Curve

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

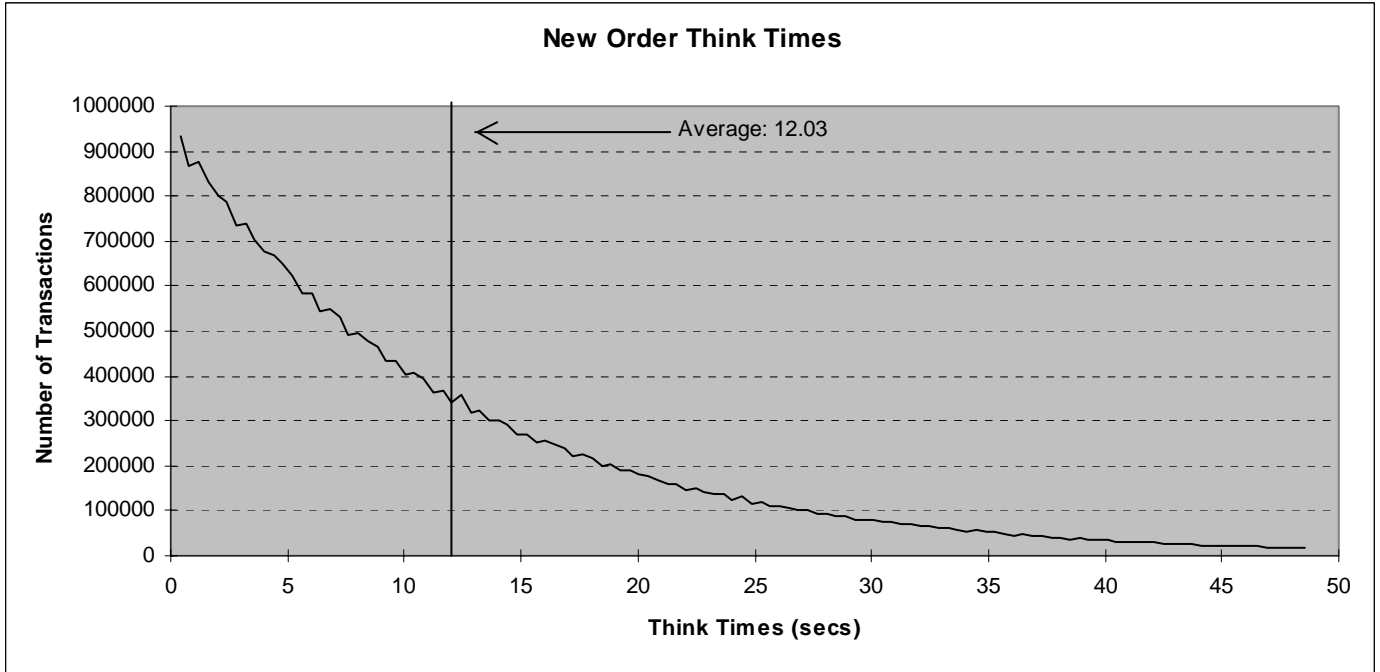
Figure 5.6: New Order Response Time versus Throughput



5.6. New Order Think Time Frequency Distribution Curve

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

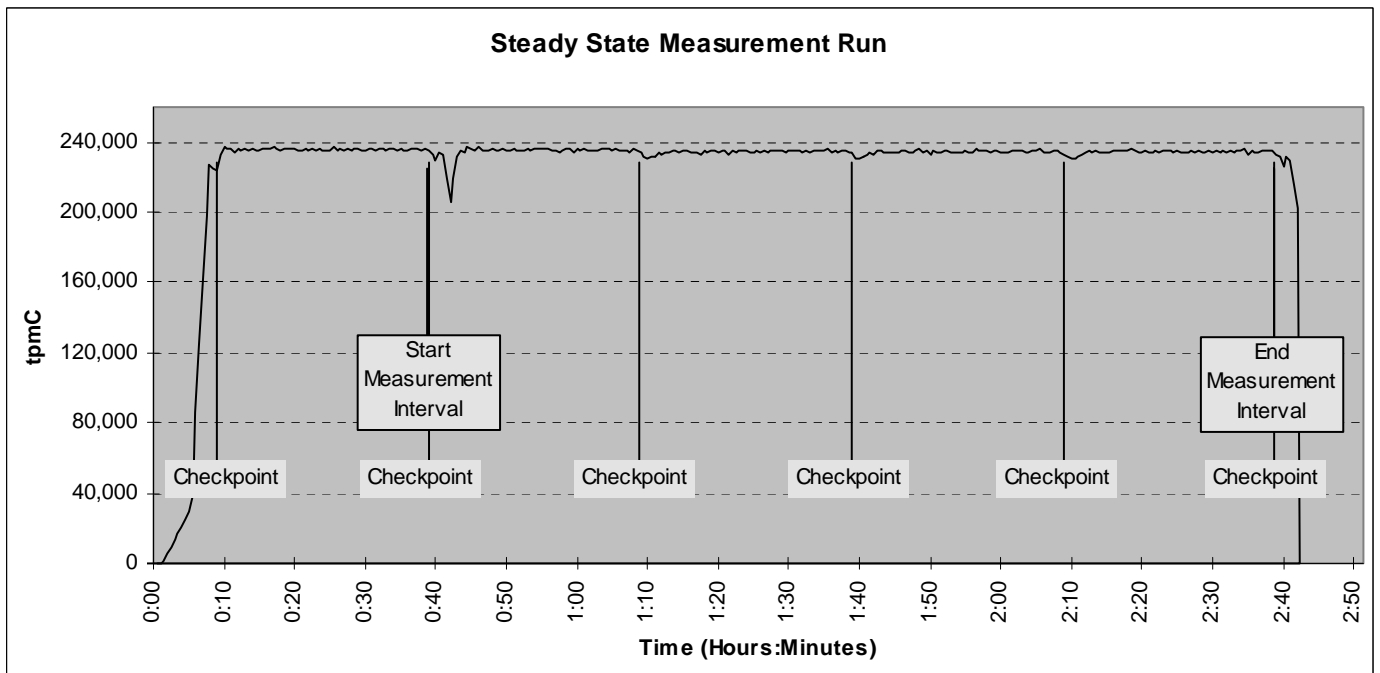
Figure 5.7: New Order Think Time Distribution



5.7. New-Order Throughput vs. Time

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

Figure 5.8: Throughput (tpmC) versus Time



5.8. Determination of “Steady State”

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

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

5.9. Work Performed During Steady State

A description of how the work normally performed during a sustained test (for example checkpointing, writing redo/undo log records, etc.) actually occurred during the measurement interval must be reported. (8.1.6.10)

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

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

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

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

5.10. Measurement Interval Duration

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

The measurement interval was 120 minutes.

5.11. Regulation of Transaction Mix

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

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

5.12. Transaction Statistics

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

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

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

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

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

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

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

Table 5.4 shows this information.

Table 5.4: Transaction Statistics

Transaction Type	Statistic	Value
New Order	Rolledback transactions	1.00%
	Home warehouse	99.00%
	Remote warehouse	1.00%
	Average Items per Order	10.00
Payment	Home warehouse	85.01%
	Remote warehouse	14.99%
	Non-primary key access	60.00%
Order Status	Non-primary key access	60.02%
Delivery	Skipped transactions (Interactive)	0
	Skipped transaction counts (Deferred)	0
	Skipped District counts (Deferred)	0
Transaction Mix	New Order	44.88%
	Payment	43.05%
	Order-Status	4.01%
	Delivery	4.01%
	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 4 seconds into the measurement interval. The checkpoint interval is 30 minutes (from the start of one to the start of the next) and a checkpoint lasts approximately 29.8 minutes.

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

Table 5.5: Checkpoint Start Time and Duration

Item	Start	End	Duration
Measurement Interval	0:38:51	2:38:51	7200
1st Checkpoint	0:38:55	1:08:41	1786
2nd Checkpoint	1:08:54	1:38:40	1786
3rd Checkpoint	1:38:53	2:08:39	1786
4th Checkpoint	2:08:52	2:38:38	1786

6. Clause 6: SUT, Driver & Communications Definition

6.1. Remote Terminal Emulator (RTE) Description

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

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

6.2. Loss of Terminal Connections

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

No terminal connections were lost.

6.3. Emulated Components

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

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

6.4. Functional Diagrams

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

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

6.5. Network Configuration

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

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

6.6. Network Bandwidth

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

Local area networks (LANs) are used in the priced and tested configurations. The database server contains eight cLAN 1.25 gigabit-per-second LAN adapters. Each was direct-connected to a cLAN adapter in the eight clients. These LAN segments run at 1.25 gigabit-per-second in the priced and tested configurations. Each client also contains two 10/100/1000 megabit-per-second inbuilt LAN controllers of which one was used in the tested configuration. A 10/100/1000 megabit-per-second switch was used to connect the clients to RTE driver systems emulating web browsers in the tested configuration. The 10/100/1000 LAN connections between the clients and switches run at 1000 megabits-per-second in the priced and tested configurations.

6.7. Operator Intervention

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

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

7.1. Pricing

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

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

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

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

A detailed list of hardware and software components along with their part numbers and prices are given in the Executive Summary near the beginning of this document. Microsoft SQL Server 2000 Enterprise Edition software has been supplemented by Service Pack 3 and Microsoft Knowledge Base # Q332004 AWE fix.

7.1.1. System Pricing

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

7.1.2. Maintenance Pricing

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

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

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

7.1.3. Discounts

Unisys provides a standard pre-pay discount for maintenance service of the client, server and storage components of the priced configuration.

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

7.2. Availability

The committed delivery date for general availability (availability date) of products used in the price calculation must be reported. When the priced system includes products with different availability dates, the reported availability date for the priced system must be the date at which all components are committed to be available. (8.1.8.3)

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

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

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

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

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

7.4. Country-Specific Pricing

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

None.

7.5. Usage Pricing

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

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

The component pricing based on usage is shown below:

- One (1) Microsoft Windows .NET Server 2003 Datacenter Edition license, 32 processor
- One (1) Microsoft SQL Server 2000 Enterprise Edition license, 32 processor
- Eight (8) Microsoft Windows 2000 Server licenses
- One (1) Microsoft Visual C++ Professional 6.0 license

8.

Clause 8 : Full Disclosure Availability

8.1. Availability

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

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

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

9.1. Auditor's Report

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

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

This implementation of the TPC Benchmark C on the Unisys ES7000 Orion 230 Enterprise Server was audited by Lorna Livingtree, a TPC certified auditor of:

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

Phone: (916) 985-1131
Fax: (916) 985-1185
email: Lorna@PerfMetrics.com

The attestation letter is shown on the next 2 pages.



PERFORMANCE METRICS INC.
TPC Certified Auditors

December 6, 2002

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

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

Platform: Unisys ES7000 Orion 230 Enterprise Server
Database Manager: Microsoft SQL Server 2000 Enterprise Edition
Operating System: Microsoft Windows .NET Server 2003 Datacenter Edition
Transaction Manager: Microsoft COM+ (included in Windows 2000)

Server: Unisys ES7000 Orion 230 Enterprise Server				
CPU's	Memory	Disks	90% Response	TpmC
32 Intel Xeon MP @ 2.0 GHz	Main: 64 GB Cache: 2MB each	814 @ 18GB 36 @ 36GB	0.50 sec	234,325.10
8 Clients: Unisys ES3020L Server				
2 Intel Xeon @ 2.4 GHz	Main: 1 GB Cache: 512KB	1 @ 18GB	Na	Na

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

- The transactions were correctly implemented.
- The database was properly sized and populated.
- The database was properly scaled with 19,040 warehouses of which only 18,760 were active during the Measured Interval.
- The ACID properties were successfully demonstrated.

PERFORMANCE METRICS INC.
TPC Certified Auditors

- The durability data loss and log loss tests were performed on a database scaled to 1888 warehouse with 18,880 users active.
- Input data was generated according to the specified percentages.
- Eight hours of mirrored log space was configured on the measured system.
- Eight hours of dynamic table growth space was configured on the measured system.
- The 60-day space calculation was verified. The measured configuration has sufficient storage to satisfy this requirement.
- Measurement cycle times included a 0.1-second menu and a 0.1 second response time delay for an emulated Web browser.
- There were 187,600 user contexts present on the system.
- Each emulated user started with a different random number seed.
- The NURand constants used for database load and at run time were 123 and 208 respectively.
- The steady state portion of the test was 2 hours (7200 seconds).
- One checkpoint was taken before the measured interval.
- Four checkpoints were taken during the measured interval.
- The system pricing was checked for major components and maintenance.

Auditor Notes:

None

Sincerely,



Lorna Livingtree
Auditor

Appendix A - Client Source

tpcc.def

```
EXPORTS
  GetExtensionVersion
  HttpExtensionProc
```

tpcc.h

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

#include <time.h>

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

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

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

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

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

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

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

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

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

typedef struct
{
  long ol_supply_w_id;
  long ol_i_id;
  char ol_i_name[25];
  short ol_quantity;
  char ol_brand_generic[2];
  double ol_i_price;
  double ol_amount;
  short ol_stock;
```

```

} OL_NEW_ORDER_DATA;

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

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

```

```

} PAYMENT_DATA;

typedef struct
{
    long ol_i_id;
    long ol_supply_w_id;
    short ol_quantity;
    double ol_amount;
    DATEDETAILS ol_delivery_d;
} OL_ORDER_STATUS_DATA;

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

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

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

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

```

tpcc.cpp

```

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

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

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

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

// TMon Interface Settings
INT iTMMaxMsg = 0;

// Term Interface Settings
INT iMaxTerms = 3000;

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

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

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

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

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

```

```

//
//=====
BOOL 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);
            dwTlsInx = TlsAlloc();
            if (dwTlsInx == TLS_NULL)
            {
                wsprintf(szDiag,"PAttach(%ld): Tls Alloc Failed (%ld)\n",
                    GetCurrentThreadId(),GetLastError());
                DiagIoWrite(szDiag,DIAG_ERROR);
                return(FALSE);
            };
            if (TermInit(iMaxTerms))
                return(FALSE);
            iTMMaxSz = max(iTMMaxSz,sizeof(NEW_ORDER_DATA));
            iTMMaxSz = max(iTMMaxSz,sizeof(PAYMENT_DATA));
            iTMMaxSz = max(iTMMaxSz,sizeof(ORDER_STATUS_DATA));
            iTMMaxSz = max(iTMMaxSz,sizeof(DELIVERY_DATA));
            iTMMaxSz = max(iTMMaxSz,sizeof(STOCK_LEVEL_DATA));
            iTMMaxSz += 10;
            TMonInit(iTMMaxSz);
            if (DeliveryInit(lSetDThreads,lSetDQSize,szSetPath))
            {
                DeliveryTerm();
                return(FALSE);
            };
            iHHdrLen = strlen(HTTPHdr);
            iCTextLen = strlen(CTEXT);
            break;
        case DLL_THREAD_ATTACH:
            // Move ThreadAttach call to HttpExt since the DllMain call
            // for Thread Attach did not reliably come before the first
            // call to HttpExtProc.
            break;
        case DLL_THREAD_DETACH:
            ThreadDetach(pTPCC);
            break;
        case DLL_PROCESS_DETACH:
            ThreadDetach(pTPCC);
            DeleteCriticalSection(&csDllMain);
            DeliveryTerm();
            TMonTerm();
            TermTerm();
            TlsFree(dwTlsInx);
    }
}

```

```

        dwTlsInx = TLS_NULL;
        DiagIoTerm();
        break;
    };
    return TRUE;
}; // DllMain

//=====
//
// Function name: ThreadAttach
//
// Result:
// FALSE Thread state structure initialized
// TRUE Thread state structure initialization failure
//
//=====
BOOL ThreadAttach(TPCC_STATE * pTPCC, CHAR * pDiag)
{
    EnterCriticalSection(&csDllMain);
    __try
    {
        pTPCC = (TPCC_STATE *) calloc(1, sizeof(TPCC_STATE));
        if (pTPCC == NULL)
        {
            wsprintf(pDiag, "ThrAtt(%ld): pTPCC Alloc Failed (%ld)\n",
                GetCurrentThreadId(), GetLastError());
            DiagIoWrite(pDiag, DIAG_ERROR);
            return(TRUE);
        };
        TlsSetValue(dwTlsInx, pTPCC);
        pTPCC->tsTMon.pszErrTxt = pTPCC->ErrTxt;
        if (TMInit(&pTPCC->tsTMon))
        {
            wsprintf(pDiag, "ThrAtt(%ld): TMInit %s\n",
                GetCurrentThreadId(), pTPCC->ErrTxt);
            DiagIoWrite(pDiag, DIAG_ERROR);
            return(TRUE);
        };
    }
    __finally
    {
        LeaveCriticalSection(&csDllMain);
    };
    return(FALSE);
}; // ThreadAttach

//=====
//
// Function name: ThreadDetach
//
//=====
VOID ThreadDetach(TPCC_STATE * pTPCC)
{
    EnterCriticalSection(&csDllMain);
    __try
    {
        pTPCC = (TPCC_STATE *) TlsGetValue(dwTlsInx);
        if (pTPCC != NULL)
        {
            TMDone(&pTPCC->tsTMon);
            free(pTPCC);
        }
    }
}

```

```

        pTPCC = NULL;
        TlsSetValue(dwTlsInx, pTPCC);
    };
}
__finally
{
    LeaveCriticalSection(&csDllMain);
}; // ThreadDetach

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

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

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

```

```

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

HttpXit:

        return(dwRslt);
}; // HttpExtensionProc

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

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

```

```

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

```

```

};
RegCloseKey(hkTPCC);
return(FALSE);
}; // ReadRegistry

```

tpcchandler.h

```

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

#define MAX_MSG_SZ 5000

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

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

```

tpcchandler.cpp

```

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

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

// 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=\"TERMINID\" VALUE=\"-2\">"
    "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"0\">"
    "Warehouse ID <INPUT NAME=\"w_id\" SIZE=6><BR>"
    "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 * TERMINIDTOKEN = "TERMINID=";

```



```

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);

//=====
//
// 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)
{
    LONG swId;
    SHORT sDId;
    TERM_STATE * pTerm;

    if (GetLongKey(&swId,pIn,"w_id",pTPCC))
    {
        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;

    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);
    if (GetLongKey(&pnod->Ol[uLine].ol_supply_w_id,ptr,szKey,pTPCC))
    {
        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;
hr = pTMon->pIAllTxn->NewOrder(&iSize,(unsigned char**)&pTMon-
>pTxnData);
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>"
        "Warehouse: %6.6d   District: %2.2d                               "
        "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,
            "   %6.6d   %6.6d   %-24s   %2.2d   %3.3d   %1.1s   $%6.2f
$%7.2f <BR>",
            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>"
            "Warehouse: %6.6d   District: %2.2d
Date:<BR>"
            "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;

    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);

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```

        return(TRUE);
    };
    if (ppd->c_id == 0 && ppd->c_last[0] == 0)
    {
        strcpy(pTPCC->ErrTxt,"Error - Customer Id and Name Empty");
        pTPCC->iStatusId = ERR_IDANDNAME_EMPTY;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (ppd->c_id != 0 && ppd->c_last[0] != 0)
    {
        strcpy(pTPCC->ErrTxt,
            "Error - Specify Customer Id or Name, not Both");
        pTPCC->iStatusId = ERR_IDANDNAME_ENTERED;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    // Get and validate customer DID
    if (GetShortKey(&ppd->c_d_id,pIn,"CDI*",pTPCC)
    {
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    if (ppd->c_d_id < MIN_DID || ppd->c_d_id > MAX_DID)
    {
        wsprintf(pTPCC->ErrTxt,"Cust DID Out of Range(%ld,%ld) - %ld",
            MIN_DID,MAX_DID,ppd->d_id);
        pTPCC->iStatusId = ERR_DID_INVALID;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    // Get and validate customer WID
    if (GetLongKey(&ppd->c_w_id,pIn,"CWI*",pTPCC)
    {
        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;

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    hr = pTMon->pIAllTxn->Payment(&iSize,(unsigned char*)&pTMon-
    >pTxnData);
    if (FAILED(hr))
    {
        pTPCC->iStatusId = ERR_TM_INTERFACE;
        wsprintf(pTPCC->ErrTxt,
            "COM Interface to Payment Call Failed, HRESULT %x",
            hr);
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    ppd = (PAYMENT_DATA *) pTMon->pTxnData;
    if (ppd->bTPRslt)
    {
        wsprintf(pTPCC->ErrTxt,
            "Payment Service Returned Error(%ld): %s",
            ppd->iTPRslt,ppd->execution_status);
        pTPCC->iStatusId = ERR_SERVICE_RSLT;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    iInx = FormatRespHdr(pOut,"TPC-C Payment",pTPCC);
    FormatString(szZip1,ZIPPIC,ppd->w_zip);
    FormatString(szZip2,ZIPPIC,ppd->d_zip);
    FormatString(szZip3,ZIPPIC,ppd->c_zip);
    FormatString(szWork1,"XXXXXX-XXX-XXX-XXXX",ppd->c_phone);
    iInx += wsprintf(pOut + iInx,
        "<PRE>
        Payment<BR>"
        "Date: %2.2d-%2.2d-%4.4d %2.2d:%2.2d:%2.2d <BR><BR>"
        "Warehouse: %6.6d"
        "
        District: %2.2d<BR>"
        "%-20s %-20s<BR>"
        "%-20s %-20s<BR>"
        "%-20s %-2s %10.10s %-20s %-2s %10.10s<BR><BR>"
        "Customer: %4.4d Cust-Warehouse: %6.6d Cust-District: %2.2d<BR>"
        "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,

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        "Cust-Data: %-50.50s<BR> %-50.50s<BR>
        "%-50.50s<BR> %-50.50s<BR>"
        "</PRE><HR><BR>%s</FORM>%s",
        ppd->c_data,(ppd->c_data + 50),(ppd->c_data + 100),(ppd->c_data +
    150),
        szMenuList,HTMLTrailer);
    }
    else
    {
        wsprintf(pOut + iInx,
            "Cust-Data: <BR><BR><BR><BR>"
            "</PRE><HR><BR>%s</FORM>%s",
            szMenuList,HTMLTrailer);
    };
    return(FALSE);
}; // ProcessPayment
//=====
//
// Function name: ProcessDelivery
//
// ProcessDelivery extracts the input data fields from pIn, processes
// the data, and returns a response in pOut.
//
// Result:
// FALSE - Delivery processed successfully.
// TRUE - Delivery processing failed.
//=====
BOOL ProcessDelivery(CHAR * pIn,CHAR * pOut,TPCC_STATE * pTPCC)
{
    DELIVERY_DATA * pdd;
    TMON_STATE * pTMon;
    INT iInx;

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

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        "Delivery Post Returned Error(%ld): Queue Request Failed",
        pdd->iTPRslt);
    pTPCC->iStatusId = ERR_SERVICE_RSLT;
    FormatMenu(pOut,pTPCC);
    return(TRUE);
};
iInx = FormatRespHdr(pOut,"TPC-C Delivery",pTPCC);
iInx += sprintf(pOut + iInx,
    "<PRE>                                Delivery<BR>"
    "Warehouse: %6.6d<BR><BR>"
    "Carrier Number: %2.2d<BR><BR>"
    "Execution Status: %25.25s<BR>"
    "</PRE><HR><BR>%s</FORM>%s",
    pdd->w_id,pdd->o_carrier_id,"Delivery has been queued.",
    szMenuList,HTMLTrailer);

return(FALSE);
}; // ProcessDelivery

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

    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;
    hr = pTMon->pIAllTxn->OrderStatus(&iSize,(unsigned char*)&pTMon-
    >pTxnData);
    if (FAILED(hr))
    {
        pTPCC->iStatusId = ERR_TM_INTERFACE;
        sprintf(pTPCC->ErrTxt,
            "COM Interface to OrderStatus Call Failed, HRESULT %x",
            hr);
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    posd = (ORDER_STATUS_DATA *) pTMon->pTxnData;
    if (posd->bTPRslt)
    {
        sprintf(pTPCC->ErrTxt,
            "Order Status Service Returned Error(%ld): %s",
            posd->iTPRslt,posd->execution_status);
        pTPCC->iStatusId = ERR_SERVICE_RSLT;
        FormatMenu(pOut,pTPCC);
        return(TRUE);
    };
    iInx = FormatRespHdr(pOut,"TPC-C Order-Status",pTPCC);
    iInx += sprintf(pOut + iInx,
        "<PRE>                                Order-Status<BR>"
        "Warehouse: %6.6d  District: %2.2d<BR>"
        "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 += sprintf(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);

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```

for(i = 0; i < posd->o_ol_cnt; i++)
{
    iInx += sprintf(pOut + iInx,
        " %6.6d %6.6d %2.2d %8.2f %2.2d-%2.2d-
%4.4d<BR>",
        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);
};
sprintf(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;

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

return(FALSE);
}; // ProcessStockLevel

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

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

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

    // Extract FORMID

```



```

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

bRslt = FALSE;

xit:

    return(bRslt);

}; // GetHidden

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

    // Check for CMD key
    if (!(ptr = strstr(pMsg,CMDTOKEN)))
        return(CMD_NULL);
    ptr += sizeof(CMDTOKEN);
    pUpd = pWork;
    while (*ptr && *ptr != '&')
        *pUpd++ = *ptr++;
    *pUpd = 0;

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

    // Command string not found
    return(CMD_NULL);

}; // GetCmd

//=====
//
// Function name: GetLongKey
//
//=====
BOOL GetLongKey(LONG * lRslt,CHAR * pHTML,CHAR * pKey,TPCC_STATE * pTPCC)
{
    if (GetKeyValue(pHTML,pKey,pTPCC->szWork,sizeof(pTPCC->szWork)))
    {
        wsprintf(pTPCC->ErrTxt,"Error - Missing %s Key",pKey);
        pTPCC->iStatusId = ERR_MISSING_KEY;
        return(TRUE);
    };
    if (pTPCC->szWork[0] != 0 )
    {

```

```

        if (CheckNumeric(pTPCC->szWork))
        {
            wsprintf(pTPCC->ErrTxt,"Error - %s Value Not Numeric",pKey);
            pTPCC->iStatusId = ERR_NOT_NUMERIC;
            return(TRUE);
        };
    };
    *lRslt = atol(pTPCC->szWork);
    return(FALSE);
}; // GetLongKey

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

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

```

```

    return(FALSE);
}; // GetShortKey

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

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

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

```

```

};
ptr++;
if (!*ptr)
    break;
if (*ptr < '0' || *ptr > '9')
{
    bInvalid = TRUE;
    break;
};
ptr++;
if (*ptr)
{
    bInvalid = TRUE;
    break;
};
break;
}
else
if (*ptr < '0' || *ptr > '9')
{
    bInvalid = TRUE;
    break;
};
ptr++;
}; // while(!*ptr)

if (!bInvalid)
*dRslt = atof(pTPCC->szWork);
else
{
    wsprintf(pTPCC->ErrTxt,
            "Error - Invalid Amount Format (%s)",pTPCC->szWork);
    pTPCC->iStatusId = ERR_AMOUNT_BADFORM;
};

return(bInvalid);
}; // GetAmountKey

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

```

```

    {
        *pValue++ = *ptr++;
        uMax--;
    };
    *pValue = 0;
    return(FALSE);
}; // GetKeyValue

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

//=====
//
// Function name: FormatMenu
//
//=====
VOID FormatMenu(CHAR * pOut,TPCC_STATE * pTPCC)
{
    wsprintf(pOut,
        "%s<HTML><HEAD><TITLE>TPC-C MainMenu</TITLE></HEAD><BODY>"
        "Select Desired Transaction.<BR><HR>"
        "<FORM ACTION=\"tpcc.dll\"METHOD=\"GET\">"
        "<INPUT TYPE=\"hidden\" NAME=\"STATUSID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"TERMID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"SYNCID\" VALUE=\"%d\">"
        "<INPUT TYPE=\"hidden\" NAME=\"FORMID\" VALUE=\"%d\">"
        "%s</FORM><BR>%s<BR>%s",
        HTTPHdr,pTPCC->iStatusId,pTPCC->iTermId,pTPCC->iSyncId,FORM_MENU,
        szMenuList,pTPCC->ErrTxt,HTMLTrailer);
}; // FormatMenu

//=====
//
// Function name: FormatNewOrder
//
//=====
VOID FormatNewOrder(CHAR * pOut,TPCC_STATE * pTPCC)
{
    INT iInx;
    pTPCC->uFormId = FORM_NEWORDER;
    iInx = FormatFormHdr(pOut,"TPC-C New Order",pTPCC);
    iInx += wsprintf(pOut + iInx,
        "<PRE>
        New Order<BR>"
        "Warehouse: %6.6d District: <INPUT NAME=\"DID*\" SIZE=1>"
        Date:<BR>",
        pTPCC->sWId);
    strcpy(pOut + iInx,
        "Customer: <INPUT NAME=\"CID*\" SIZE=4> Name:"
        "Order Number: Number of Lines: W_tax:"
        D_tax:<BR><BR>"
        " Supp_W Item_Id Item Name Qty Stock B/G Price
        Amount<BR>"

```

```

        " <INPUT NAME=\"SP00*\" SIZE=6> <INPUT NAME=\"IID00*\" SIZE=6>
<INPUT NAME=\"Qty00*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP01*\" SIZE=6> <INPUT NAME=\"IID01*\" SIZE=6>
<INPUT NAME=\"Qty01*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP02*\" SIZE=6> <INPUT NAME=\"IID02*\" SIZE=6>
<INPUT NAME=\"Qty02*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP03*\" SIZE=6> <INPUT NAME=\"IID03*\" SIZE=6>
<INPUT NAME=\"Qty03*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP04*\" SIZE=6> <INPUT NAME=\"IID04*\" SIZE=6>
<INPUT NAME=\"Qty04*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP05*\" SIZE=6> <INPUT NAME=\"IID05*\" SIZE=6>
<INPUT NAME=\"Qty05*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP06*\" SIZE=6> <INPUT NAME=\"IID06*\" SIZE=6>
<INPUT NAME=\"Qty06*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP07*\" SIZE=6> <INPUT NAME=\"IID07*\" SIZE=6>
<INPUT NAME=\"Qty07*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP08*\" SIZE=6> <INPUT NAME=\"IID08*\" SIZE=6>
<INPUT NAME=\"Qty08*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP09*\" SIZE=6> <INPUT NAME=\"IID09*\" SIZE=6>
<INPUT NAME=\"Qty09*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP10*\" SIZE=6> <INPUT NAME=\"IID10*\" SIZE=6>
<INPUT NAME=\"Qty10*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP11*\" SIZE=6> <INPUT NAME=\"IID11*\" SIZE=6>
<INPUT NAME=\"Qty11*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP12*\" SIZE=6> <INPUT NAME=\"IID12*\" SIZE=6>
<INPUT NAME=\"Qty12*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP13*\" SIZE=6> <INPUT NAME=\"IID13*\" SIZE=6>
<INPUT NAME=\"Qty13*\" SIZE=1><BR>"
        " <INPUT NAME=\"SP14*\" SIZE=6> <INPUT NAME=\"IID14*\" SIZE=6>
<INPUT NAME=\"Qty14*\" SIZE=1><BR>"
        "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>"
        "Warehouse: %6.6d",
        pTPCC->sWId);
    strcpy(pOut + iInx,
        " District: <INPUT NAME=\"DID*\"
        SIZE=1><BR><BR><BR><BR><BR>"
        "Customer: <INPUT NAME=\"CID*\" SIZE=4>"
        "Cust-Warehouse: <INPUT NAME=\"CWI*\" SIZE=6> "
        "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>"
        "Warehouse: %6.6d<BR><BR>"
        "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>"
        "Warehouse: %6.6d      "
        "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>"
        "Warehouse: %6.6d      District: %2.2d<BR><BR>"
        "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=\"TERMIN\" 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

```

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

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

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

```

```

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

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

//=====
//
// Function name: DeliveryPost

```

```

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

//=====
//
// Function name: DoDelivery
//
//=====
UINT WINAPI DoDelivery(void * Unused)
{
    FILE *fpLog;
    char szLogTitle[300];
    bool bFlush = FALSE;
    DELIVERY_QUEUE * pDQSlot;
    DELIVERY_DATA * pddEntry;
    DELIVERY_DATA * pdd;

```

```

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

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

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

```

```

pddEntry = &pDQSlot->ddEntry;
pdd = (DELIVERY_DATA *) pTMon->pTxnData;
memcpy(pdd,pddEntry,sizeof(DELIVERY_DATA));
EnterCriticalSection(&csDQWrite);
pDQSlot->bInUse = FALSE;
LDQNextRead++;
if (LDQNextRead == LDQSize)
{
    LDQNextRead = 0;
    bDQReport = TRUE;
    LDQReport = LDQNextWrite;
};
if (LDQNextRead == LDQNextWrite)
    ResetEvent(hDQRead);
LeaveCriticalSection(&csDQWrite);
LeaveCriticalSection(&csDQRead);
// Process delivery transaction
iSize = pTMon->iSize;
hr = pTMon->pIAllTxn->Delivery(&iSize,(unsigned char**)&pTMon-
>pTxnData);
if (FAILED(hr))
{
    wsprintf(szDiag,
        "DoDelivery(%ld): COM Interface Call Failed HRESULT %x\n",
        lMyId,hr);
    DiagIoWrite(szDiag,DIAG_ERROR);
    break;
};
pdd = (DELIVERY_DATA *) pTMon->pTxnData;
GetLocalTime(&pdd->EndTime);
iElapsed = 9999999;
if (!pdd->bTPRslt)
    CalculateElapsed(&iElapsed,&pdd->QTime,&pdd->EndTime);
iInx = wsprintf(szDiag,
"%4.4d/%2.2d/%2.2d,%2.2d:%2.2d:%2.2d:%3.3d,%2.2d:%2.2d:%2.2d:%3.3d,"
"%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d\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
    LONG sWId; // TPCC Warehouse Id
    SHORT sDId; // TPCC District Id
    struct _timeb tbLastAccess; // Last activity timestamp
} TERM_STATE;

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

```

term.cpp

```

// term.cpp
//

```



```

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

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

VOID TermMaint(VOID);

//=====
//
// Function name: TermInit
// Creates and initializes the first TERMINITIAL TArray entries.
// Initializes critical section to control access to TArray. Assumes
// access to function is single threaded, no other threads will start
// until this function completes and that function is called once
// (DLL_PROCESS_ATTACH).
//
// Returns:
// FALSE TArray allocated and initialized
// TRUE TArray allocation failure
//
//=====
BOOL TermInit(INT iSetMaxTerm)
{
    INT iTermId;
    CHAR szDiag[MAX_DIAG_SZ];
    if (pTArray != NULL)
    {
        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++;
                }
            }
        }
    }
    __except(0)
    {
        // Exception occurred. 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;

```

```

ITPCC * pIAllTxn;
CHAR * pTxnData;           // TM buffer area
} TMON_STATE;

```

```

VOID TMonInit(INT iSetMaxMsg);
VOID TMonTerm(VOID);
BOOL TMinInit(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.h

```

timesupp.h

```

//
// Copyright Unisys, 1999

#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;

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

```

timesupp.cpp

```

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

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

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

//=====
//
// Function name: TimebDiff
// Time difference in milliseconds between _timeb_t1 and _timeb_t2.
//
//=====
TMILLI TimebDiff(struct _timeb * p_tbl, struct _timeb * p_tb2)
{
    LONG lRslt;

```

```

    lRslt = ((p_tb2->time - p_tbl->time) * 1000) +
            (p_tb2->millitm - p_tbl->millitm);
    if (lRslt < 0)
        return(0);
    else
        return((TMILLI) lRslt);
}; // TimebDiff

//=====
//
// Function name: TimebElapsed
//
//=====
TMILLI TimebElapsed(struct _timeb * p_tbl)
{
    struct _timeb _tb2;
    _ftime(&_tb2);
    return (TimebDiff(p_tbl, &_tb2));
}; // TimebElapsed

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

//=====
//
// Function name: TimebToString
// Converts timeb to yyyy:mm:dd,hh:mm:ss.sss format
//
//=====
CHAR * TimebToString(struct _timeb * p_tbl, CHAR * psz, BOOL bMillis)
{
    struct tm * ptm;
    int iInx;
    ptm = localtime(&p_tbl->time);
    iInx = wsprintf(psz, "%4.4d/%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_tbl->millitm);
    return(psz);
}; // TimebToString

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

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

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

```

```

return(ulSeed);
}; // TimebSeed

```

diagio.h

```

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

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

#define DIAGNOSTICS TRUE
#define MAX_DIAG_SZ 2000

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

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

```

diagio.cpp

```

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

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

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

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

```

```

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

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

//=====
//
// Function name: DiagIoWrite
//
//=====
VOID DiagIoWrite(CHAR * pDiagBuffer, UINT uSeverity)
{
    CHAR * pDMsgs[3];
    UINT uMsgCnt = 0;
    INT iERslt = 0;
    if (DIAGNOSTICS)
    {
        if (uDiagLevel >= uSeverity)

```

```

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

INT WriteEventLog(CHAR * pDMsgs[], UINT uMsgCnt, UINT uSeverity)
{
    WORD wType;
    WORD wCount;
    wCount = uMsgCnt;
    switch (uSeverity)
    {
        case DIAG_ERROR:
            wType = EVENTLOG_ERROR_TYPE;
            break;
        default:
            wType = EVENTLOG_INFORMATION_TYPE;
            break;
    };
    if (wType != 0)
    {
        if (!ReportEvent(hEventLog, // event log handle
            wType, // event type
            0, // category zero
            uSeverity, // no event identifier
            NULL, // no user security identifier

```

```

        wCount,          // # of substitution strings
        0,              // no binary data
        (LPCTSTR *) pDMsgs, // address of string array
        NULL))         // address of binary
    {
        DeregisterEventSource(hEventLog);
        hEventLog = NULL;
        bEventLog = FALSE;
        return(GetLastError());
    }; // ReportEvent failed
}; // if wType != 0
return(0);
}; // WriteEventLog

```

tpccproxy.def

```

LIBRARY      "tpcc_com_ps"

DESCRIPTION  'Proxy/Stub DLL'

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

```

tpccproxy.idl

```

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

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

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

    HRESULT _stdcall Payment
    (
        [in, out] int * iSize,

```

```

        [in, out, size_is(*iSize)] char ** pData
    );

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

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

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

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

```

tpccsvr.def

```

; tpccsvr.def : Declares the module parameters.

LIBRARY      "tpcc_com_all.dll"

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

```

tpccsvr.idl

```

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

interface TPCC;

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

[
  uuid(122A3117-2520-11D3-BA71-00C04FBFE08B),
  version(1.0),
  helpstring("TPC-C 1.0 Type Library")
]

```

```

]
library TPCCLib
{
    importlib("stdole32.tlb");
    importlib("stdole2.tlb");

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

```

tpccsvr.h

```

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

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

CTPCC_Common();
~CTPCC_Common();

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

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

// IObjectConstruct
STDMETHODIMP Construct(IDispatch * pUnk);

// state
private:
    bool m_bCanBePooled;

```

```

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

bool InitNOParams(void);
bool InitPYParams(void);
bool InitDLParams(void);
bool InitOSParams(void);
bool InitSLParams(void);
bool CheckDBError(char * pSource);

```

```
}; // Class CTPCC_Common
```

```

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

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

```

tpccsvr.cpp

```

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

#define STRICT

```



```

#define _WIN32_WINNT 0x0400
#define _ATL_APARTMENT_THREADED

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

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

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

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

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

CComModule _Module;

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

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

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

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

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

extern "C"

```

```

BOOL WINAPI DllMain(HINSTANCE hInst,ULONG ul_reason_for_call,LPVOID
lpReserved)
{
    char szDiag[300];
    DWORD dwCNSize = MAX_COMPUTERNAME_LENGTH;
    try
    {
        switch(ul_reason_for_call)
        {
            case DLL_PROCESS_ATTACH:
                _Module.Init(ObjectMap,hInst);
                DisableThreadLibraryCalls(hInst);
                wsprintf(pProgId, "%s%d", pPName, iInstance);
                if (ReadRegistry())
                {
                    WriteEventLog("DllMain: Registry Key Not Present\n",TRUE);
                    return(FALSE);
                };
                wsprintf(pProgId, "%s%d(%s)", pPName, iInstance, szServer);
                GetComputerName(szMyHost, &dwCNSize);
                szMyHost[dwCNSize] = 0;
                if (SQLAllocHandleStd(SQL_HANDLE_ENV,SQL_NULL_HANDLE,&henv) !=
SQL_SUCCESS)
                {
                    wsprintf(szDiag, "DllMain(%s): Allocate Environment
Failed\n"
                        "ServerName=%s,DB=%s,User=%s,PW=%s,Retries=%d\n",
VERSIONINFO, szServer, szDatabase, szUser, szPassword, iDeadlockRetry);
                    WriteEventLog(szDiag, FALSE);
                    return FALSE;
                };
                wsprintf(szDiag, "DllMain(%s): Initialization Complete\n"
                    "ServerName=%s,DB=%s,User=%s,PW=%s,Retries=%d\n",
VERSIONINFO, szServer, szDatabase, szUser, szPassword, iDeadlockRetry);
                WriteEventLog(szDiag, FALSE);
                break;

            case DLL_PROCESS_DETACH:
                WriteEventLog("DllMain: Closing down for Process
Detach\n", FALSE);
                if (henv != NULL)
                    SQLFreeEnv(henv);
                _Module.Term();
                break;
        }; // switch ul_reason_for_call
    }
    catch (...)
    {
        wsprintf(szDiag, "DllMain: Unhandled exception during %s call\n",
            ul_reason_for_call == DLL_PROCESS_ATTACH ? "ATTACH" : "DETACH");
        WriteEventLog(szDiag, TRUE);
        return FALSE;
    };

    return TRUE;
}; // DllMain

STDAPI DllCanUnloadNow(void)

```

```

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

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

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

STDAPI DllUnregisterServer(void)
{
    _Module.UnregisterServer();
    return S_OK;
};

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

CTPCC_Common::CTPCC_Common()
{
    char szDiag[300];
    Sleep(100);
    m_bCanBePooled = TRUE;
    m_iMaxRetry = iDeadlockRetry;
    m_lRefId = InterlockedIncrement(&lCount);
    InterlockedIncrement(&lActive);
    m_hdbc = SQL_NULL_HDBC;
    m_hstmt = SQL_NULL_HSTMT;
    m_hstmtNewOrder = SQL_NULL_HSTMT;
    m_hstmtPayment = SQL_NULL_HSTMT;
    m_hstmtDelivery = SQL_NULL_HSTMT;
    m_hstmtOrderStatus = SQL_NULL_HSTMT;
    m_hstmtStockLevel = SQL_NULL_HSTMT;
    m_descNewOrderCols1 = SQL_NULL_HDESC;
    m_descNewOrderCols2 = SQL_NULL_HDESC;
    m_descOrderStatusCols1 = SQL_NULL_HDESC;
    m_descOrderStatusCols2 = SQL_NULL_HDESC;
    wsprintf(szDiag, "CTPCC_Common: Initialized %ld\n",m_lRefId);
    WriteEventLog(szDiag, FALSE);
};

CTPCC_Common::~CTPCC_Common()
{
    char szDiag[300];
    SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtNewOrder);
    SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtPayment);
    SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtDelivery);
    SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtOrderStatus);
    SQLFreeHandle(SQL_HANDLE_STMT,m_hstmtStockLevel);

```

```

    SQLDisconnect(m_hdbc);
    SQLFreeHandle(SQL_HANDLE_DBC,m_hdbc);
    InterlockedDecrement(&lActive);
    wsprintf(szDiag, "~CTPCC_Common(%ld): Database closed\n",m_lRefId);
    WriteEventLog(szDiag, FALSE);
};

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

bool CTPCC_Common::CheckDBError(char * pSource)
{
    RETCODE rc;
    SDWORD lNativeError;
    char szState[6];
    char szMsg[SQL_MAX_MESSAGE_LENGTH];
    char szTmp[7 * (SQL_MAX_MESSAGE_LENGTH + 2)];
    int iInx;
    int iMsgs = 0;
    bool bRslt = FALSE;
    iInx = 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);
    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,
        "DRIVER=SQL Server;SERVER=%s;UID=%s;PWD=%s;DATABASE=%s;WSID=%s-
%ld",
        szServer,szUser,szPassword,szDatabase,szMyHost,m_lRefId);
    rc = SQLDriverConnect(m_hdbc,NULL,(SQLCHAR * ) szConnectStr,
        sizeof(szConnectStr),(SQLCHAR * ) szOutStr, sizeof(szOutStr),
        &iOutStrLen,SQL_DRIVER_NOPROMPT);
    if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
    {
        wsprintf(szDiag,"Construct(%ld): Connect failed\n",m_lRefId);
        CheckDBError(szDiag);
        return(E_FAIL);
    };
    if (SQLAllocHandle(SQL_HANDLE_STMT,m_hdbc,&m_hstmt) != SQL_SUCCESS)
    {
        wsprintf(szDiag,"Construct(%ld): Allocate STMT Handle
failed\n",m_lRefId);
        CheckDBError(szDiag);
        return(E_FAIL);
    };

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

    if (InitNOParams())
        return(E_FAIL);
    if (InitPYParams())
        return(E_FAIL);
    if (InitDLParams())
        return(E_FAIL);
    if (InitOSParams())
        return(E_FAIL);
    if (InitSLParams())
        return(E_FAIL);
    }
    catch (...)
    {

```

```

        wsprintf(szDiag,"Construct(%ld): Unhandled exception\n",m_lRefId);
        WriteEventLog(szDiag,TRUE);
        return(E_FAIL);
    };

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

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

bool CTPCC_Common::InitNOParams(void)
{
    char szDiag[300];
    int i;
    int 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;
    if
(SQLBindParameter(m_hstmt,++i,SQL_PARAM_INPUT,SQL_C_SLONG,SQL_INTEGER,

```

```

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

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

i = 0;
if (SQLBindCol(m_hstmt,++i,SQL_C_CHAR,&m_TData.NOData.Ol[0].ol_i_name,
    sizeof(m_TData.NOData.Ol[0].ol_i_name),NULL) != SQL_SUCCESS
    ||
SQLBindCol(m_hstmt,++i,SQL_C_SSHORT,&m_TData.NOData.Ol[0].ol_stock,
    0,NULL) != SQL_SUCCESS
    ||
SQLBindCol(m_hstmt,++i,SQL_C_CHAR,&m_TData.NOData.Ol[0].ol_brand_generic,

```

```

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

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

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

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

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

```

```

L"?,?,?,?,?,?,?,?,?,?,?,?,",
L"?,?,?,?,?,?,?,?,?,?,?,?,",
L"?,?,?,?,?,?,?,?,?,?,?,?,?";

int i;

pnod = (NEW_ORDER_DATA *) *pTData;
try
{
    m_hstmt = m_hstmtNewOrder;
    m_bTPRslt = TRUE;
    m_iTPRslt = SVCERR_DEADLOCK;
    // associate the parameter and column bindings for this transaction
    if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
        m_descNewOrderCols1,SQL_IS_POINTER ) != SQL_SUCCESS)
    {
        char szDiag[100];
        wsprintf(szDiag,"NewOrder(%ld): SetStmtAttr NOCols1\n",m_lRefId);
        CheckDBError(szDiag);
        pnod->bTPRslt = TRUE;
        pnod->iTPRslt = SVCERR_ODBC;
        strcpy(pnod->execution_status,"Error, Bind NOCols1 Failed");
        return(S_OK);
    };
    // clip statement buffer based on number of parameters
    // fixed part is 29 chars and variable part is 6 chars per line
item
    i = 29 + pnod->o_ol_cnt * 6;
    wcsncpy(&szSqlTemplate[i],L""));
    // check whether any order lines are for a remote warehouse
    pnod->o_all_local = 1;
    for (i = 0; i < pnod->o_ol_cnt; i++)
    {
        if (pnod->Ol[i].ol_supply_w_id != pnod->w_id)
        {
            pnod->o_all_local = 0;
            break;
        };
    };
    memcpy(&m_TData.NOData, pnod, sizeof(NEW_ORDER_DATA));
    for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
    {
        bRetry = FALSE;
        m_BindOffset = 0;
        rc = SQLExecDirectW(m_hstmt,(SQLWCHAR *) szSqlTemplate,SQL_NTS);
        if (rc != SQL_SUCCESS && rc !=
SQL_SUCCESS_WITH_INFO)
        {
            char szDiag[100];
            wsprintf(szDiag,"NewOrder(%ld): Execute Direct\n",m_lRefId);
            if (CheckDBError(szDiag))
            {
                m_iTPRslt = SVCERR_ODBC;
                break;
            };
            continue;
        };
        // Get order line results
        m_TData.NOData.total_amount = 0;
        for (i = 0; i < m_TData.NOData.o_ol_cnt; i++)
        {
            // set the bind offset value...

```

```

m_BindOffset = i * sizeof(m_TData.NOData.Ol[0]);
if (SQLFetch(m_hstmt) == SQL_ERROR)
{
    char szDiag[100];
    wsprintf(szDiag,"NewOrder(%ld): Fetch Ol%d\n",m_lRefId,(i +
1));
    if (CheckDBError(szDiag))
    {
        m_iTPRslt = SVCERR_ODBC;
        else
            bRetry = TRUE;
        break;
    };
    // move to the next resultset
    if (SQLMoreResults(m_hstmt) == SQL_ERROR)
    {
        char szDiag[100];
        wsprintf(szDiag,"NewOrder(%ld): MoreResults
Ol%d\n",m_lRefId,(i + 1));
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            else
                bRetry = TRUE;
            break;
        };
        m_TData.NOData.total_amount += m_TData.NOData.Ol[i].ol_amount;
    }; // for o_ol_cnt
    if (m_iTPRslt == SVCERR_ODBC)
        break;
    if (bRetry)
        continue;
    // associate the column bindings for the second result set
    if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
        m_descNewOrderCols2,SQL_IS_POINTER) != SQL_SUCCESS)
    {
        char szDiag[100];
        wsprintf(szDiag,"NewOrder(%ld): SetStmtAttr
NOCols2\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    if (SQLFetch(m_hstmt) == SQL_ERROR)
    {
        char szDiag[100];
        wsprintf(szDiag,"NewOrder(%ld): Fetch\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    SQLFreeStmt(m_hstmt,SQL_CLOSE);
    if (m_no_commit_flag == 1)
    {
        m_TData.NOData.total_amount *=
            ((1 + m_TData.NOData.w_tax + m_TData.NOData.d_tax) *
            (1 - m_TData.NOData.c_discount));
    };

```

```

        m_bTPRslt = FALSE;
        m_iTPRslt = SVC_NOERROR;
    }
    else
        m_iTPRslt = SVC_BADITEMID;
    break;
}; // for m_iMaxRetry
memcpy(pnod,&m_TData.NOData,sizeof(NEW_ORDER_DATA));
pnod->bTPRslt = m_bTPRslt;
pnod->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)
{
    strcpy(pnod->execution_status,"Transaction committed.");
    return(S_OK);
};
if (m_iTPRslt == SVC_BADITEMID)
{
    strcpy(pnod->execution_status,"Item number is not valid.");
    return(S_OK);
};
if (m_iTPRslt == SVCERR_DEADLOCK)
    sprintf(pnod->execution_status,"Hit retry
max(%d).",m_iMaxRetry);
else
    strcpy(pnod->execution_status,"DBTranAbort, Check Input Data");
return(S_OK);
}
catch (...)
{
    char szDiag[300];
    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;
    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,
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,

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

HRESULT CTPCC_Common::Payment(int * iSize,UCHAR ** pTData)
{
    PAYMENT_DATA * ppd;
    RETCODE rc;
    ppd = (PAYMENT_DATA *) *pTData;
    try
    {
        m_hstmt = m_hstmtPayment;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        if (ppd->c_id != 0)
            ppd->c_last[0] = 0;
        memcpy(&m_TData.PYData,ppd,sizeof(PAYMENT_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
        {
            rc = SQLExecDirectW(m_hstmt,(SQLWCHAR *)L"{call
tpcc_payment(?,?,?,?,?,?,?)",SQL_NTS);
            if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
            {
                char szDiag[100];
                wsprintf(szDiag,"Payment(%ld): Execute Direct\n",m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            if (SQLFetch(m_hstmt) == SQL_ERROR)
            {
                char szDiag[100];
                wsprintf(szDiag,"Payment(%ld): Fetch\n",m_lRefId);
                if (CheckDBError(szDiag))
                {

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```

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

```

```

        if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
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;
    pdd = (DELIVERY_DATA *) *pTData;
    try
    {
        m_hstmt = m_hstmtDelivery;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        memcpy(&m_TData.DLData, pdd, sizeof(DELIVERY_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
        {
            rc = SQLExecDirectW(m_hstmt, (SQLWCHAR *)L"call
tpcc_delivery(?,?)", SQL_NTS);
            if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
            {
                char szDiag[100];
                wsprintf(szDiag, "Delivery(%ld): Execute Direct\n", m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            if (SQLFetch(m_hstmt) == SQL_ERROR )
            {
                char szDiag[100];
                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 (...)
{
    char szDiag[300];
    wsprintf(szDiag, "Delivery(%ld): Unhandled exception\n", m_lRefId);
    WriteEventLog(szDiag, TRUE);
    m_bCanBePooled = FALSE;
    pdd->bTPRslt = TRUE;
    pdd->iTPRslt = SVCERR_EXCEPTION;
    return(S_OK);
}; // Delivery

bool CTPCC_Common::InitOSParams(void)
{
    char szDiag[300];
    int i;
    if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmtOrderStatus) !=
SQL_SUCCESS
|| SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc, &m_descOrderStatusCols1) !=
SQL_SUCCESS
|| SQLAllocHandle(SQL_HANDLE_DESC, m_hdbc, &m_descOrderStatusCols2) !=
SQL_SUCCESS
)
    {
        wsprintf(szDiag, "InitOSParams(%ld): Allocate Stmt Handles
failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };
    m_hstmt = m_hstmtOrderStatus;

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

    i = 0;
    if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
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;
if (SQLBindCol(m_hstmt,++i,SQL_C_SLONG,
    &m_TData.OSData.OlOrderStatusData[0].ol_supply_w_id, 0, NULL)
!= SQL_SUCCESS
    || SQLBindCol(m_hstmt,++i,SQL_C_SLONG,
    &m_TData.OSData.OlOrderStatusData[0].ol_i_id, 0, NULL) !=
SQL_SUCCESS
    || SQLBindCol(m_hstmt,++i,SQL_C_SSHORT,
    &m_TData.OSData.OlOrderStatusData[0].ol_quantity, 0, NULL) !=
SQL_SUCCESS
    || SQLBindCol(m_hstmt,++i,SQL_C_DOUBLE,
    &m_TData.OSData.OlOrderStatusData[0].ol_amount, 0, NULL) !=
SQL_SUCCESS
    || SQLBindCol(m_hstmt,++i,SQL_C_TYPE_TIMESTAMP,
    &m_TData.OSData.OlOrderStatusData[0].ol_delivery_d, 0, NULL)
!= SQL_SUCCESS
)
{
    wsprintf(szDiag,"InitOSParams(%ld): Bind Col Ol
failed\n",m_lRefId);
    CheckDBError(szDiag);
    return(TRUE);
};

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

```

```

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

HRESULT CTPCC_Common::OrderStatus(int * iSize,UCHAR ** pTData)
{
    ORDER_STATUS_DATA * posd;
    RETCODE rc;

    posd = (ORDER_STATUS_DATA *) *pTData;
    try
    {
        m_hstmt = m_hstmtOrderStatus;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
            m_descOrderStatusCols1,SQL_IS_POINTER) != SQL_SUCCESS)
        {
            char szDiag[100];
            wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
OSCols1\n",m_lRefId);
            CheckDBError(szDiag);
            posd->bTPRslt = TRUE;
            posd->iTPRslt = SVCERR_ODBC;
            strcpy(posd->execution_status,"Error, SetStmt OSCols1");
            return(S_OK);
        };
        if (posd->c_id != 0)
            posd->c_last[0] = 0;
        memcpy(&m_TData.OSData,posd,sizeof(ORDER_STATUS_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
        {
            // configure block cursor
            if
(SQLSetStmtAttrW(m_hstmt,SQL_ATTR_ROW_ARRAY_SIZE,(SQLPOINTER)1,0) !=
SQL_SUCCESS)
            {
                char szDiag[100];

```

```

        wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
RowArraySize\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    rc = SQLExecDirectW(m_hstmt, (SQLWCHAR*)"L" {call
tpcc_orderstatus(?,?,?,?)}",SQL_NTS);
    if ( ((rc == SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0)) ||
(rc == SQL_ERROR) )
    {
        char szDiag[100];
        wsprintf(szDiag,"OrderStatus(%ld): Execute
Direct\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    // configure block cursor
    if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_ROW_ARRAY_SIZE,
(SQLPOINTER)MAX_OL, 0) != SQL_SUCCESS)
    {
        char szDiag[100];
        wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr RowArraySize
MAX_OL\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    rc = SQLFetchScroll(m_hstmt,SQL_FETCH_NEXT,0);
    if ( ((rc == SQL_SUCCESS_WITH_INFO) && (m_RowsFetched != 0)) ||
(rc == SQL_ERROR) )
    {
        char szDiag[100];
        wsprintf(szDiag,"OrderStatus(%ld): FetchScroll\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    m_TData.OSData.o_ol_cnt = (short)m_RowsFetched;

    if (m_TData.OSData.o_ol_cnt != 0)
    {
        if
(SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,m_descOrderStatusCols2,
SQL_IS_POINTER) != SQL_SUCCESS)
        {
            char szDiag[100];

```

```

        wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr
OSCols2\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    if (SQLMoreResults(m_hstmt) == SQL_ERROR)
    {
        char szDiag[100];
        wsprintf(szDiag,"OrderStatus(%ld):
MoreResults\n",m_lRefId);
        if (CheckDBError(szDiag))
        {
            m_iTPRslt = SVCERR_ODBC;
            break;
        };
        continue;
    };
    if (SQLFetch(m_hstmt) == SQL_ERROR)
    {
        char szDiag[100];
        wsprintf(szDiag,"OrderStatus(%ld): Fetch\n",m_lRefId);
        CheckDBError(szDiag);
        if (SQLSetStmtAttrW(m_hstmt,SQL_ATTR_APP_ROW_DESC,
m_descOrderStatusCols1,SQL_IS_POINTER) != SQL_SUCCESS)
        {
            char szDiag[100];
            wsprintf(szDiag,"OrderStatus(%ld): SetStmtAttr (Fetch)
OSCols1\n",m_lRefId);
            CheckDBError(szDiag);
            posd->bTPRslt = TRUE;
            posd->iTPRslt = SVCERR_ODBC;
            strcpy(posd->execution_status,"Error, SetStmt Cols1
Fetch");
            return(S_OK);
        };
        memcpy(&m_TData.OSData,posd,sizeof(ORDER_STATUS_DATA));
        Sleep(20);
        continue;
    };
}; // order lines exist
SQLFreeStmt(m_hstmt,SQL_CLOSE);
if (m_TData.OSData.o_ol_cnt == 0)
    m_iTPRslt = SVCERR_NOORDERS;
else
    if (m_TData.OSData.c_id == 0 && m_TData.OSData.c_last[0] == 0)
        m_iTPRslt = SVCERR_NOCUSTOMER;
    else
    {
        m_bTPRslt = FALSE;
        m_iTPRslt = SVC_NOERROR;
    };
    break;
}; // for m_iMaxRetry
memcpy(posd,&m_TData.OSData,sizeof(ORDER_STATUS_DATA));
posd->bTPRslt = m_bTPRslt;
posd->iTPRslt = m_iTPRslt;
if (!m_bTPRslt)

```

```

    {
        strcpy(posd->execution_status, "Transaction committed.");
        return(S_OK);
    };
    if (m_iTPRslt == SVCERR_NOCUSTOMER)
    {
        strcpy(posd->execution_status, "Invalid Customer id,name.");
        return(S_OK);
    };
    if (m_iTPRslt == SVCERR_NOORDERS)
    {
        strcpy(posd->execution_status, "Customer has no orders.");
        return(S_OK);
    };
    if (m_iTPRslt == SVCERR_DEADLOCK)
        sprintf(posd->execution_status, "Hit retry
max(%d).", m_iMaxRetry);
    else
        strcpy(posd->execution_status, "DBTranAbort, Check Input Data");
    return(S_OK);
}
catch (...)
{
    char szDiag[300];
    sprintf(szDiag, "OrderStatus(%ld): Unhandled exception\n", m_lRefId);
    WriteEventLog(szDiag, TRUE);
    m_bCanBePooled = FALSE;
    posd->bTPRslt = TRUE;
    posd->iTPRslt = SVCERR_EXCEPTION;
    strcpy(posd->execution_status, "Error, Unhandled exception");
    return(S_OK);
};
}; // Orderstatus

bool CTPCC_Common::InitSLParams(void)
{
    char szDiag[300];
    int i = 0;
    if (SQLAllocHandle(SQL_HANDLE_STMT, m_hdbc, &m_hstmtStockLevel) !=
SQL_SUCCESS )
    {
        sprintf(szDiag, "InitSLParams(%ld): Allocate Stmt Handle
failed\n", m_lRefId);
        CheckDBError(szDiag);
        return(TRUE);
    };
    m_hstmt = m_hstmtStockLevel;
    if
(SQLBindParameter(m_hstmt, ++i, SQL_PARAM_INPUT, SQL_C_SLONG, SQL_INTEGER,
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 ** pTData)
{
    STOCK_LEVEL_DATA * psld;
    RETCODE rc;
    psld = (STOCK_LEVEL_DATA *) *pTData;
    try
    {
        m_hstmt = m_hstmtStockLevel;
        m_bTPRslt = TRUE;
        m_iTPRslt = SVCERR_DEADLOCK;
        memcpy(&m_TData.SLData, psld, sizeof(STOCK_LEVEL_DATA));
        for (m_iTryCount = 1; m_iTryCount <= m_iMaxRetry; m_iTryCount++)
        {
            rc = SQLExecDirectW(m_hstmt,
(SQLWCHAR*)"L{call tpcc_stocklevel(?,?,?)", SQL_NTS);
            if (rc != SQL_SUCCESS && rc != SQL_SUCCESS_WITH_INFO)
            {
                char szDiag[100];
                sprintf(szDiag, "StockLevel(%ld): Execute Direct\n", m_lRefId);
                if (CheckDBError(szDiag))
                {
                    m_iTPRslt = SVCERR_ODBC;
                    break;
                };
                continue;
            };
            if (SQLFetch(m_hstmt) == SQL_ERROR)
            {
                char szDiag[100];
                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 (...)
    {
        char szDiag[300];
        wsprintf(szDiag,"StockLevel(%ld): Unhandled exception\n",m_lRefId);
        WriteEventLog(szDiag,TRUE);
        m_bCanBePooled = FALSE;
        psld->bTPRslt = TRUE;
        psld->iTPRslt = SVCERR_EXCEPTION;
        strcpy(psld->execution_status,"Error, Unhandled exception");
        return(S_OK);
    };
}; // Stocklevel

//=====
//
// Function name: ReadRegistry
//
// Sets global operational parameters from registry if they exist.
// Otherwise, compiled in defaults apply.
//
// Result:
// FALSE Registry entry found
// TRUE Registry entry does not exist
//
//=====
bool ReadRegistry(VOID)
{
    HKEY hkTPCC;
    DWORD dwMax;
    DWORD dwRT;
    CHAR * pszEnvData;
    char szValue[100];
    if (RegOpenKeyEx(HKEY_LOCAL_MACHINE,"SOFTWARE\\Unisys\\TPCC",0,
        KEY_READ, &hkTPCC) != ERROR_SUCCESS )
        return(TRUE);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"SERVERNAME",0,&dwRT,(BYTE *)
&szValue,&dwMax)
        == ERROR_SUCCESS)
        strcpy(szServer,szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"DATABASE",0,&dwRT,(BYTE *) &szValue,&dwMax)
        == ERROR_SUCCESS)
        strcpy(szDatabase,szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"USER",0,&dwRT,(BYTE *) &szValue,&dwMax)
        == ERROR_SUCCESS)
        strcpy(szUser,szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"PASSWORD",0,&dwRT,(BYTE *) &szValue,&dwMax)
        == ERROR_SUCCESS)
        strcpy(szPassword,szValue);
    dwMax = sizeof(szValue);
    if (RegQueryValueEx(hkTPCC,"MAXRETRY",0,&dwRT,(BYTE *) &szValue,&dwMax)

```

```

        == ERROR_SUCCESS )
            iDeadlockRetry = abs(atoi(szValue));
    RegCloseKey(hkTPCC);
    if ((pszEnvData = getenv("WEBINSTANCE")) != NULL)
        strcpy(szServer,pszEnvData);
    if ((pszEnvData = getenv("WEBDATABASE")) != NULL)
        strcpy(szDatabase,pszEnvData);
    if ((pszEnvData = getenv("WEBDRIVERNO")) != NULL)
        iInstance = abs(atoi(pszEnvData));

    return(FALSE);
}; // ReadRegistry

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

```

Appendix B - Database Design

Build Scripts

BACKUP.SQL

```
-- File:      BACKUP.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates backup of tpcc database

DBCC TRACEON (3111)

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

dump database tpcc to tpccbackb14, tpccbackc14, tpccbackd14, tpccbacke14,
tpccbackf14, tpccbackg14, tpccbackh14, tpccbacki14, tpccbackj14
, tpccbackb13, tpccbackc13, tpccbackd13, tpccbacke13, tpccbackf13,
tpccbackg13, tpccbackh13, tpccbacki13, tpccbackj13 with init, stats = 1,
blocksize = 65536

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

go
```

BACKUPDEVB.SQL

```
-- File:      BACKUPDEVB.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates tpcc database Backup Devices

use master
go

-- create backup devices

exec sp_addumpdevice
'disk','tpccbackb14','C:\Bigdb\dbBackups\backupB14\tpccbackb14.dmp'
exec sp_addumpdevice
'disk','tpccbackc14','C:\Bigdb\dbBackups\backupC14\tpccbackc14.dmp'
exec sp_addumpdevice
'disk','tpccbackd14','C:\Bigdb\dbBackups\backupD14\tpccbackd14.dmp'
exec sp_addumpdevice
'disk','tpccbacke14','C:\Bigdb\dbBackups\backupE14\tpccbacke14.dmp'
```

```
exec sp_addumpdevice
'disk','tpccbackf14','C:\Bigdb\dbBackups\backupF14\tpccbackf14.dmp'
exec sp_addumpdevice
'disk','tpccbackg14','C:\Bigdb\dbBackups\backupG14\tpccbackg14.dmp'
exec sp_addumpdevice
'disk','tpccbackh14','C:\Bigdb\dbBackups\backupH14\tpccbackh14.dmp'
exec sp_addumpdevice
'disk','tpccbacki14','C:\Bigdb\dbBackups\backupI14\tpccbacki14.dmp'
exec sp_addumpdevice
'disk','tpccbackj14','C:\Bigdb\dbBackups\backupJ14\tpccbackj14.dmp'
```

```
exec sp_addumpdevice
'disk','tpccbackb13','C:\Bigdb\dbBackups\backupB13\tpccbackb13.dmp'
exec sp_addumpdevice
'disk','tpccbackc13','C:\Bigdb\dbBackups\backupC13\tpccbackc13.dmp'
exec sp_addumpdevice
'disk','tpccbackd13','C:\Bigdb\dbBackups\backupD13\tpccbackd13.dmp'
exec sp_addumpdevice
'disk','tpccbacke13','C:\Bigdb\dbBackups\backupE13\tpccbacke13.dmp'
exec sp_addumpdevice
'disk','tpccbackf13','C:\Bigdb\dbBackups\backupF13\tpccbackf13.dmp'
exec sp_addumpdevice
'disk','tpccbackg13','C:\Bigdb\dbBackups\backupG13\tpccbackg13.dmp'
exec sp_addumpdevice
'disk','tpccbackh13','C:\Bigdb\dbBackups\backupH13\tpccbackh13.dmp'
exec sp_addumpdevice
'disk','tpccbacki13','C:\Bigdb\dbBackups\backupI13\tpccbacki13.dmp'
exec sp_addumpdevice
'disk','tpccbackj13','C:\Bigdb\dbBackups\backupJ13\tpccbackj13.dmp'
```

go

CREATEDB.SQL

```
use master
go
if exists ( select name from sysobjects where name = 'tpcc_timer' )
drop table tpcc_timer
go

create table tpcc_timer
(
    start_date          char(30),
    end_date            char(30)
)

insert into tpcc_timer values (0,0)
go

update tpcc_timer
set start_date = (select convert(char(30), getdate(),9))
go
CREATE DATABASE tpcc
```

```

ON PRIMARY
(
    NAME = MSSQL_tpcc_root,
    FILENAME = "C:\Bigdb\dbRoots\tpcc_root.mdf",
    SIZE = 10MB, FILEGROWTH = 0),
FILEGROUP MSSQL_misc_fg
(
    NAME = MSSQL_miscJ14,
    FILENAME = "C:\Bigdb\CABJ\misc14\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ13,
    FILENAME = "C:\Bigdb\CABJ\misc13\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ12,
    FILENAME = "C:\Bigdb\CABJ\misc12\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ11,
    FILENAME = "C:\Bigdb\CABJ\misc11\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ10,
    FILENAME = "C:\Bigdb\CABJ\misc10\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ9,
    FILENAME = "C:\Bigdb\CABJ\misc9\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ8,
    FILENAME = "C:\Bigdb\CABJ\misc8\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ7,
    FILENAME = "C:\Bigdb\CABJ\misc7\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ6,
    FILENAME = "C:\Bigdb\CABJ\misc6\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ5,
    FILENAME = "C:\Bigdb\CABJ\misc5\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ4,
    FILENAME = "C:\Bigdb\CABJ\misc4\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ3,
    FILENAME = "C:\Bigdb\CABJ\misc3\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ2,
    FILENAME = "C:\Bigdb\CABJ\misc2\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
    NAME = MSSQL_miscJ1,
    FILENAME = "C:\Bigdb\CABJ\misc1\",
    SIZE = 3020MB, FILEGROWTH = 0),
(
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( NAME = MSSQL_ordJ14,
  FILENAME = "C:\Bigdb\CABJ\ord14\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ13,
  FILENAME = "C:\Bigdb\CABJ\ord13\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ12,
  FILENAME = "C:\Bigdb\CABJ\ord12\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ11,
  FILENAME = "C:\Bigdb\CABJ\ord11\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ10,
  FILENAME = "C:\Bigdb\CABJ\ord10\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ9,
  FILENAME = "C:\Bigdb\CABJ\ord9\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ8,
  FILENAME = "C:\Bigdb\CABJ\ord8\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ7,
  FILENAME = "C:\Bigdb\CABJ\ord7\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ6,
  FILENAME = "C:\Bigdb\CABJ\ord6\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ5,
  FILENAME = "C:\Bigdb\CABJ\ord5\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ4,
  FILENAME = "C:\Bigdb\CABJ\ord4\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ3,
  FILENAME = "C:\Bigdb\CABJ\ord3\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ2,
  FILENAME = "C:\Bigdb\CABJ\ord2\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordJ1,
  FILENAME = "C:\Bigdb\CABJ\ord1\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordI14,
  FILENAME = "C:\Bigdb\CABI\ord14\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordI13,
  FILENAME = "C:\Bigdb\CABI\ord13\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordI12,
  FILENAME = "C:\Bigdb\CABI\ord12\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordI11,
  FILENAME = "C:\Bigdb\CABI\ord11\",
  SIZE = 3650MB, FILEGROWTH = 0),
( NAME = MSSQL_ordI10,

```



```

    SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordC12,
  FILENAME = "C:\Bigdb\CABC\ord12\",
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  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordC10,
  FILENAME = "C:\Bigdb\CABC\ord10\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordC9,
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  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordC8,
  FILENAME = "C:\Bigdb\CABC\ord8\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordC7,
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  SIZE      = 3650MB,  FILEGROWTH = 0),
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  FILENAME = "C:\Bigdb\CABB\ord13\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB12,
  FILENAME = "C:\Bigdb\CABB\ord12\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB11,
  FILENAME = "C:\Bigdb\CABB\ord11\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB10,
  FILENAME = "C:\Bigdb\CABB\ord10\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB9,
  FILENAME = "C:\Bigdb\CABB\ord9\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB8,
  FILENAME = "C:\Bigdb\CABB\ord8\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB7,
  FILENAME = "C:\Bigdb\CABB\ord7\",
  SIZE      = 3650MB,  FILEGROWTH = 0),

```

```

( NAME = MSSQL_ordB6,
  FILENAME = "C:\Bigdb\CABB\ord6\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB5,
  FILENAME = "C:\Bigdb\CABB\ord5\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB4,
  FILENAME = "C:\Bigdb\CABB\ord4\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB3,
  FILENAME = "C:\Bigdb\CABB\ord3\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB2,
  FILENAME = "C:\Bigdb\CABB\ord2\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_ordB1,
  FILENAME = "C:\Bigdb\CABB\ord1\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
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  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_orda6,
  FILENAME = "C:\Bigdb\CABA\ord6\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_orda5,
  FILENAME = "C:\Bigdb\CABA\ord5\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_orda4,
  FILENAME = "C:\Bigdb\CABA\ord4\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_orda3,
  FILENAME = "C:\Bigdb\CABA\ord3\",
  SIZE      = 3650MB,  FILEGROWTH = 0),
( NAME = MSSQL_orda2,
  FILENAME = "C:\Bigdb\CABA\ord2\",
  SIZE      = 3650MB,  FILEGROWTH = 0)
LOG ON
( NAME = MSSQL_tpcc_log1,
  FILENAME = "C:\Bigdb\dblogs\tpcclog1\",
  SIZE = 140001MB, FILEGROWTH = 0),
( NAME = MSSQL_tpcc_log2,
  FILENAME = "C:\Bigdb\dblogs\tpcclog2\",
  SIZE = 140001MB, FILEGROWTH = 0)
go
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. 4.21
-- Copyright Microsoft, 1999, 2000
-- Purpose:   Sets database options for data load

```

```

use master
go

exec sp_dboption tpcc,'select into/bulkcopy',true
exec sp_dboption tpcc,'trunc. log on chkpt.',true
exec sp_dboption tpcc,'torn page detection',false

go

use tpcc
go

checkpoint
go

```

DBOPT2.SQL

```

-- File:      DBOPT2.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Resets database options after data load

```

```

sp_dboption tpcc,'select into/bulkcopy',FALSE
GO

```

```

sp_dboption tpcc,'trunc. log on chkpt.',FALSE
GO

```

```

USE tpcc
GO

```

```

CHECKPOINT
GO

```

```

sp_configure 'allow updates',1
GO

```

```

RECONFIGURE WITH OVERRIDE
GO

```

```

DECLARE @msg          varchar(50)

```

```

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

```

```

SET @msg = ' '
PRINT @msg
SET @msg = 'Setting SQL Server 2000 indexoptions'
PRINT @msg
SET @msg = ' '
PRINT @msg

```

```

EXEC sp_indexoption 'customer', 'DisallowPageLocks', TRUE
EXEC sp_indexoption 'district', 'DisallowPageLocks', TRUE
EXEC sp_indexoption 'warehouse', 'DisallowPageLocks', TRUE
EXEC sp_indexoption 'stock', 'DisallowPageLocks', TRUE

```

```

EXEC sp_indexoption 'order_line', 'DisallowRowLocks', TRUE
EXEC sp_indexoption 'orders', 'DisallowRowLocks', TRUE
EXEC sp_indexoption 'new_order', 'DisallowRowLocks', TRUE
EXEC sp_indexoption 'item', 'DisallowRowLocks', TRUE
EXEC sp_indexoption 'item', 'DisallowPageLocks', TRUE

```

```

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

```

```

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

```

```

sp_configure 'allow updates',0
GO

```

```

RECONFIGURE WITH OVERRIDE
GO

```

```

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

```

```

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

```

REMOVEDB.SQL

```

-- File:      REMOVEDB.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Removes tpcc database and backup files

```

```

use master
go

```

```

-- remove any existing database and backup files

```

```

exec sp_dbremove tpcc, dropdev

```


go

```

exec sp_dropdevice 'tpccbackb14'
exec sp_dropdevice 'tpccbackc14'
exec sp_dropdevice 'tpccbackd14'
exec sp_dropdevice 'tpccbacke14'
exec sp_dropdevice 'tpccbackf14'
exec sp_dropdevice 'tpccbackg14'
exec sp_dropdevice 'tpccbackh14'
exec sp_dropdevice 'tpccbacki14'
exec sp_dropdevice 'tpccbackj14'

```

```

exec sp_dropdevice 'tpccbackb13'
exec sp_dropdevice 'tpccbackc13'
exec sp_dropdevice 'tpccbackd13'
exec sp_dropdevice 'tpccbacke13'
exec sp_dropdevice 'tpccbackf13'
exec sp_dropdevice 'tpccbackg13'
exec sp_dropdevice 'tpccbackh13'
exec sp_dropdevice 'tpccbacki13'
exec sp_dropdevice 'tpccbackj13'

```

go

RESTORE.SQL

```

-- File:      RESTORE.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Loads database backup from backup files

```

```

DBCC TRACEON (3111)
GO

```

```

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

```

```

restore database tpcc from tpccbackb14, tpccbackc14, tpccbackd14,
tpccbacke14, tpccbackf14, tpccbackg14, tpccbackh14, tpccbacki14,
tpccbackj14
,tpccbackb13, tpccbackc13, tpccbackd13, tpccbacke13, tpccbackf13,
tpccbackg13, tpccbackh13, tpccbacki13, tpccbackj13 with replace, stats =
1, blocksize=65536

```

```

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

```

```

go
dbcc traceoff (3111)

```

SETUP.CMD

```

::@ECHO OFF

```

```

@ECHO
*****
@ECHO *
*
@ECHO * Microsoft TPC-C V3 Benchmark Kit Ver. 4.21
*
@ECHO *
*
@ECHO
*****

```

```

@if '%1'==' ' goto usage
@if '%2'==' ' goto usage
@if '%3'==' ' goto usage
@if not '%4'==' ' if not '%4' == 'normal' if not '%4' == 'scale_down' goto
usage

```

```

:: Cleanup any old .err files
@if exist logs\*.err del logs\*.err >nul

```

```

@if '%3'=='full' goto start
@if '%3'=='bulddb' goto bulddb
@if '%3'=='objects' goto objects
@if '%3'=='bulkload' goto bulkload
@if '%3'=='objectsfull' goto objects
@if '%3'=='bulkloadfull' goto bulkload
@if '%3'=='backup' goto backup
@if '%3'=='backupfull' goto backup
@if '%3'=='verifyload' goto verifyload
goto usage

```

```

:start
:: Cleanup the logs directory...
@if exist logs\version.log del logs\version.log
>nul

```

```

@if exist logs\db.log del logs\db.log >nul
@if exist logs\objects.log del logs\objects.log
>nul
@if exist logs\objects.log del logs\objects.log
>nul
@if exist logs\bulkload.log del logs\bulkload.log >nul
@if exist logs\backup.log del logs\backup.log
>nul

```

```

@isql -Usa -P -S%1 -Q"select @@version"
> logs\version.log
@isql -Usa -P -S%1 -Q"select getdate()"
>> logs\version.log

```

```

:Verify_Installation
@isql -Usa -P -S%1 -b -iscripts\utility\verify_msg.sql
>nul
@isql -Usa -P -S%1 -b -iscripts\utility\verify_sort.sql
>nul
@isql -Usa -P -S%1 -b -Q"ms_verify_sort" >nul
@if errorlevel 1 goto BAD_SORT

```

```

:bulddb
@@if exist logs\db.log del logs\db.log
>nul
@ECHO Removing any existing TPCC database and backup devices...
@isql -Usa -P -S%1 -e < scripts\%2.war\database\removedb.sql
> logs\db.log
@ECHO Creating Backup Device(s)...
@isql -Usa -P -S%1 -e < scripts\%2.war\database\backupdev.sql
>> logs\db.log
@if errorlevel 1 goto CREATE_ERROR
@ECHO Building database files and database...
@isql -Usa -P -S%1 -b -e < scripts\%2.war\database\createdb.sql
>> logs\db.log
@if errorlevel 1 goto CREATE_ERROR
@ECHO Database build complete.
@if '%3'=='full' goto objects
goto end

:objects
@if exist logs\objects.log del logs\objects.log
>nul
@ECHO Creating TPC-C database tables...
@isql -Usa -P -S%1 -b -e < scripts\%2.war\ddl\tables.sql
logs\objects.log >
@if errorlevel 1 goto TABLES_ERROR
@ECHO Creating database objects...
@isql -Usa -P -S%1 -b -e < scripts\dml\neword.sql
logs\objects.log >>
@if errorlevel 1 goto NEWORDER_ERROR
@isql -Usa -P -S%1 -b -e < scripts\dml\payment.sql
logs\objects.log >>
@if errorlevel 1 goto PAYMENT_ERROR
@isql -Usa -P -S%1 -b -e < scripts\dml\ordstat.sql
logs\objects.log >>
@if errorlevel 1 goto ORDERSTATUS_ERROR
@isql -Usa -P -S%1 -b -e < scripts\dml\delivery.sql
logs\objects.log >>
@if errorlevel 1 goto DELIVERY_ERROR
@isql -Usa -P -S%1 -b -e < scripts\dml\stocklev.sql
logs\objects.log >>
@if errorlevel 1 goto STOCKLEVEL_ERROR
@isql -Usa -P -S%1 -e < scripts\dml\version.sql
>> logs\objects.log
@ECHO Database object creation complete.
@if '%3'=='full' goto bulkload
@if '%3'=='objectsfull' goto bulkload
goto end

:bulkload
@if exist logs\bulkload.log del logs\bulkload.log >nul
@ECHO Setting database options before load...
@isql -Usa -P -S%1 -b -e < scripts\utility\dbopt1.sql
>> logs\bulkload.log
@if errorlevel 1 goto DBOPT1_ERROR
@ECHO Beginning data load and index creation...
rem @isql -Usa -P -S%1 -b -e < scripts\%2.war\ddl\idxhiscl.sql
> logs\idxhiscl.log
@if '%4'==' ' loader\bin\tpccldr -S%1 -W%2 -flogs\bulkload.log -
dscripsts\%2.war\ddl -c0
@if errorlevel 1 goto END

```

```

@if '%4'=='normal' loader\bin\tpccldr -S%1 -W%2 -flogs\bulkload.log -
dscripsts\%2.war\ddl -c0
@if errorlevel 1 goto END
@if '%4'=='scale_down' loader\bin\tpccldr -S%1 -W%2 -flogs\bulkload.log -
dscripsts\%2.war\ddl -c1
@if errorlevel 1 goto END
goto bulkloaddone
:bulkloaddone
@ECHO Setting database options after load...
@isql -Usa -P -S%1 -b -e < scripts\utility\dbopt2.sql
>> logs\bulkload.log
@if errorlevel 1 goto DBOPT2_ERROR
@ECHO Data load and index creation complete.

@ECHO.
@ECHO Calculating initial database space usage...
@cd..\acid\space
@call space.cmd %1
@cd..\..\setup

@if '%3'=='full' goto backup
@if '%3'=='objectsfull' goto backup
@if '%3'=='bulkloadfull' goto backup
goto end

:backup
@if exist logs\backup.log del logs\backup.log
>nul
@ECHO Backing up database...
@isql -Usa -P -S%1 -b -e < scripts\%2.war\database\backup.sql
> logs\backup.log
@if errorlevel 1 goto BACKUP_ERROR
@ECHO Database backup complete.
@if '%3'=='full' goto verifyload
@if '%3'=='objectsfull' goto verifyload
@if '%3'=='bulkloadfull' goto verifyload
@if '%3'=='backupfull' goto verifyload
goto complete

:verifyload
@if exist logs\verifyload.log del logs\verifyload.log
>nul
@Echo Verifying TPC-C database load...
@isql -Usa -P -S%1 -b -e < scripts\utility\verifytpccload.sql >
logs\verifyload.log
@if errorlevel 1 goto VERIFY_ERROR
@ECHO Check logs\verifyload.log to verify database load.

@ECHO.
@ECHO Checking database build
@cd..\acid
@call doall.cmd %1
@cd..\setup

:complete
@ECHO
*****
**
@ECHO *
*

```

```

@ECHO * Full TPC-C V3 build complete. Check logs directory for setup
errors. *
@ECHO *
*
@ECHO
*****
**

goto end

:usage
@ECHO
*****
@ECHO *
*
@ECHO * The TPC-C setup command file requires the following parameters:
*
@ECHO *
*
@ECHO * setup SERVER NUMWAR BLDOPT VERSION DBTYPE
*
@ECHO *
*
@ECHO * SERVER = machine name of server (use "" for local server)
*
@ECHO * NUMWAR = number of warehouses
*
@ECHO * BLDOPT = full, builddb, objects, objectsfull, bulkload,
*
@ECHO * bulkloadfull, backup, or backupfull
*
@ECHO * DBTYPE = normal or scale_down
*
@ECHO *
*
@ECHO * Note #1: the BLDOPT and VERSION parameters are case sensitive.
*
@ECHO *
*
@ECHO * Note #2: the DBTYPE is optional. If no DBTYPE is specified,
SETUP *
@ECHO * will default to NORMAL.
*
@ECHO *
*
@ECHO * Example:
*
@ECHO *
*
@ECHO * The following command would be used to build a complete 200
*
@ECHO * warehouse database on SQL Server 7.0 running on server
\\myserver. *
@ECHO *
*
@ECHO * SETUP myserver 200 full
*
@ECHO *
*
@ECHO * NOTE 1: This command file does a backup of the database by
default *

```

```

@ECHO * after the database build process is complete. If you do not wish
*
@ECHO * to make a backup (strongly discouraged), you must edit this file
*
@ECHO * and comment that section out. Also, if you need to run the
dbcheck *
@ECHO * and the dbtables scripts on the fresh database load for an audit,
*
@ECHO * you must either run them manually or edit this file to include
them. *
@ECHO *
*
@ECHO * NOTE 2: The TPC-C setup program supports both Intel and Alpha
*
@ECHO * systems. It queries the %PROCESSOR_ARCHITECTURE% environment
*
@ECHO * variable and runs the appropriate executables.
*
@ECHO *
*
@ECHO
*****
@goto end

:CREATE_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error in the database/backup device creation.
@echo.
@echo Check your CREATEDB.SQL, BACKUPDEV.SQL, LOGS\DB.LOG, and the
@echo SQL Server errorlog (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:TABLES_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error in the table creation.
@echo.
@echo Verify that the FileGroup names specified in CREATEDB.SQL
@echo match those specified in SCRIPTS\DDL\TABLES.SQL.
@echo.
@goto END

:NEWORDER_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error in the creation of the New Order stored
procedure.
@echo.
@echo Check your LOGS\OBJECTS.LOG, SCRIPTS\DML\NEWORDER.SQL and the
@echo SQL Server errorlog (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:PAYMENT_ERROR
@echo.

```

```

@echo BUILD ABORTED!
@echo.
@echo There was an error in the creation of the Payment stored procedure.
@echo.
@echo Check your LOGS\OBJECTS.LOG, SCRIPTS\DML\PAYMENT.SQL and the
@echo SQL Server errorlog (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:ORDERSTATUS_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error in the creation of the Order Status stored
procedure.
@echo.
@echo Check your LOGS\OBJECTS.LOG, SCRIPTS\DML\ORDSTAT.SQL and the
@echo SQL Server errorlog (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:DELIVERY_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error in the creation of the Delivery stored procedure.
@echo.
@echo Check your LOGS\OBJECTS.LOG, SCRIPTS\DML\DELIVERY.SQL and the
@echo SQL Server errorlog (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:STOCKLEVEL_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error in the creation of the Stock Level stored
procedure.
@echo.
@echo Check your LOGS\OBJECTS.LOG, SCRIPTS\DML\STOCKLEV.SQL and the
@echo SQL Server errorlog (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:DBOPT1_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error setting the database options before load.
@echo.
@echo Check your LOGS\OBJECTS.LOG and the SQL Server errorlog
@echo (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:DBOPT2_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error setting the database options after load.
@echo.

```

```

@echo Check your LOGS\OBJECTS.LOG and the SQL Server errorlog
@echo (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:BACKUP_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error backing up the database after load.
@echo.
@echo Check your LOGS\BACKUP.LOG and the SQL Server errorlog
@echo (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:VERIFY_ERROR
@echo.
@echo BUILD ABORTED!
@echo.
@echo There was an error performing TPC-C database verification.
@echo.
@echo Check your LOGS\VERIFYLOAD.LOG and the SQL Server errorlog
@echo (MSSQL7\LOG\ERRORLOG) for details.
@echo.
@goto END

:BAD_SORT
@echo.
@echo BUILD ABORTED!
@echo.
@echo Incorrect SQL Server Sort Order. For performance and compatibility
@echo issues, you must run SQL Server with the Binary Sort Order.
@echo.
@echo For SQL Server 7.0, please re-install and specify the Binary Sort
Order.
@echo.
@echo For SQL Server 8.0, please re-install and specify Latin1_General
with the Binary Option.
@echo.
@goto END
:end

echo on

```

VERIFY_MSG.SQL

```

exec sp_dropmessage 50003
exec sp_addmessage 50003, 1, "Incorrect Sort Order - Please re-install SQL
Server with the Binary Sort Order"

```

VERIFY_SORT.SQL

```

-- File:      VERIFY_SORT.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Verifies the Sort Order

```

```

if exists (select name from sysobjects where name = "ms_verify_sort" )
    drop procedure ms_verify_sort
go

create proc ms_verify_sort
as

declare @sort_order    int

-- get the sort order
select @sort_order    = (select value from sysconfigures where config =
'1123')

if (select @sort_order) <> 50
    RAISERROR (50003,11,1)
Go

```

VERIFYTPCCLOAD

```

-- File:      VERIFYTPCCLOAD.SQL
--            Microsoft TPC-C Benchmark Kit Ver. 4.21
--            Copyright Microsoft, 1999, 2000
-- Purpose:   Performs series of TPCC database checks to verify
--            that database load completed correctly

```

```

print " "
select convert(char(30), getdate(),9)
print " "

```

```

use tpcc
go

```

```

-- *****
-- Check rows per table from SYSINDEXES
-- *****

```

```

print 'WAREHOUSE TABLE'

```

```

select rowcnt
from sysindexes
where id = object_id("warehouse")
go

```

```

print 'DISTRICT TABLE = (10 * No of warehouses)'

```

```

select rowcnt
from sysindexes
where id =object_id("district")
go

```

```

print 'ITEM TABLE = 100,000'

```

```

select rowcnt
from sysindexes

```

```

where id =object_id("item")
go

print 'CUSTOMER TABLE = (30,000 * No of warehouses)'

select rowcnt
from sysindexes
where id =object_id("customer")
go

print 'ORDERS TABLE = (30,000 * No of warehouses)'

select rowcnt
from sysindexes
where id =object_id("orders")
go

print 'HISTORY TABLE = (30,000 * No of warehouses)'

select rowcnt
from sysindexes
where id =object_id("history")
go

print 'STOCK TABLE = (100,000 * No of warehouses)'

select rowcnt
from sysindexes
where id =object_id("stock")
go

print 'ORDER_LINE TABLE = (300,000 * No of warehouses some change)'

select rowcnt
from sysindexes
where id =object_id("order_line")
go

print 'NEW_ORDER TABLE = (9000 * No of warehouses)'

select rowcnt
from sysindexes
where id =object_id("new_order")
go

-- *****
-- Check indices
-- *****

print '*****Index Check*****'

use tpcc
go

sp_helpindex customer
go

sp_helpindex stock
go

```

```

sp_helpindex district
go

sp_helpindex item
go

sp_helpindex new_order
go

sp_helpindex orders
go

sp_helpindex order_line
go

sp_helpindex warehouse
go

```

Tables

IDXCUSCL.SQL

```

-- File: IDXCUSCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.21
-- Copyright Microsoft, 1999, 2000
-- Purpose: Creates clustered index on customer table

use tpcc
go

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

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

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

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

go

```

IDXCUSNC.SQL

```

-- File: IDXCUSNC.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.21
-- Copyright Microsoft, 1999, 2000
-- Purpose: Creates non-clustered index on customer table

use tpcc
go

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

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

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

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

```

```
go
```

IDXDISCL.SQL

```

-- File: IDXDISCL.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.21
-- Copyright Microsoft, 1999, 2000
-- Purpose: Creates clustered index on district table

use tpcc
go

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

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

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

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

go

```

IDXHISCL.SQL

```
-- File:      IDXHISCL.SQL
-- Purpose:   Creates clustered index on history table

use tpcc
go

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

if exists ( select name from sysindexes where name = 'history_c1' )
    drop index history.history_c1

create unique clustered index history_c1 on history(h_c_w_id, h_date,
h_c_id, h_c_d_id, h_amount)
on MSSQL_misc_fg

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

go
```

IDXITMCL.SQL

```
-- File:      IDXITMCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates clustered index on item table

use tpcc
go

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

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

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

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

go
```

IDXNODCL.SQL

```
-- File:      IDXNODCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates clustered index on new_order table

use tpcc
go

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

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

create unique clustered index new_order_c1 on new_order(no_w_id, no_d_id,
no_o_id)
on MSSQL_ord_fg

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

go
```

IDXODLCL.SQL

```
-- File:      IDXODLCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates clustered index on order_line table

use tpcc
go

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

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

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

select @enddate = getdate()
select "End date: ", convert(varchar(30),@enddate,9)
```

```
select "Elapsed time (in seconds): ", datediff(second, @startdate,
@enddate)
```

```
go
```

IDXORDCL.SQL

```
-- File:      IDXORDCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates clustered index on orders table
```

```
use tpcc
go
```

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

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

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

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

```
go
```

IDXORDNC.SQL

```
-- File:      IDXORDNC.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates non-clustered index on orders table
```

```
use tpcc
go
```

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

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

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

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

```
go
```

IDXSTKCL.SQL

```
-- File:      IDXSTKCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates clustered index on stock table
```

```
use tpcc
go
```

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

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

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

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

```
go
```

IDXWARCL.SQL

```
-- File:      IDXWARCL.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates clustered index on warehouse table
```

```
use tpcc
go
```

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

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

```
create unique clustered index warehouse_cl on warehouse(w_id)
```



```

with fillfactor=100 on MSSQL_misc_fg

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

go

```

TABLES.SQL

```

-- File:      TABLES.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates TPC-C tables

use tpcc
go

-- Remove all existing TPC-C tables
--

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

-- Create new tables
--

create table warehouse
(
    w_id                int,

```

```

    w_name              char(10),
    w_street_1          char(20),
    w_street_2          char(20),
    w_city              char(20),
    w_state             char(2),
    w_zip              char(9),
    w_tax               numeric(4,4),
    w_ytd              numeric(12,2)
) on MSSQL_misc_fg
go

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

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

create table history
(
    h_c_id              int,
    h_c_d_id            tinyint,
    h_c_w_id            int,
    h_d_id              tinyint,
    h_w_id              int,

```

```

        h_date                datetime,
        h_amount              numeric(6,2),
        h_data                char(24)
) on MSSQL_misc_fg
go

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

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

create table order_line
(
    ol_o_id                  int,
    ol_d_id                  tinyint,
    ol_w_id                  int,
    ol_number                tinyint,
    ol_i_id                  int,
    ol_supply_w_id           int,
    ol_delivery_d            datetime,
    ol_quantity              smallint,
    ol_amount                numeric(6,2),
    ol_dist_info             char(24)
) on MSSQL_ord_fg
go

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

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

```

```

        s_dist_05            char(24),
        s_dist_06            char(24),
        s_dist_07            char(24),
        s_dist_08            char(24),
        s_dist_09            char(24),
        s_dist_10            char(24),
        s_ytd                 int,
        s_order_cnt           smallint,
        s_remote_cnt          smallint,
        s_data                varchar(50)
) on MSSQL_cs_fg
go

```

Stored Procedures

DELIVERY.SQL

```

-- File:      DELIVERY.SQL
--            Microsoft TPC-C Benchmark Kit Ver. 4.21.000
--            Copyright Microsoft, 1999, 2000
-- Purpose:   Creates delivery transaction stored procedure
--
--            Interface Level: 4.10.000

use tpcc
go

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

create proc tpcc_delivery    @w_id          int,
                             @o_carrier_id  smallint
as

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

select @d_id = 0

begin tran d

        while (@d_id < 10)
        begin

```

```

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

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

if (@@rowcount <> 0)
begin
-- claim the order for this district

delete new_order
where  no_w_id = @w_id and
       no_d_id = @d_id and
       no_o_id = @o_id

-- set carrier_id on this order (and get customer id)

update orders
set   o_carrier_id = @o_carrier_id,
      @c_id        = o_c_id
where o_w_id       = @w_id and
      o_d_id       = @d_id and
      o_id         = @o_id

-- set date in all lineitems for this order (and sum amounts)

update order_line
set   ol_delivery_d = getdate(),
      @total        = @total + ol_amount
where ol_w_id       = @w_id and
      ol_d_id       = @d_id and
      ol_o_id       = @o_id

-- accumulate lineitem amounts for this order into customer

update customer
set   c_balance     = c_balance + @total,
      c_delivery_cnt = c_delivery_cnt + 1
where c_w_id        = @w_id and
      c_d_id        = @d_id and
      c_id          = @c_id

end

select @oid1 = case @d_id when 1 then @o_id else @oid1 end,
       @oid2 = case @d_id when 2 then @o_id else @oid2 end,
       @oid3 = case @d_id when 3 then @o_id else @oid3 end,
       @oid4 = case @d_id when 4 then @o_id else @oid4 end,
       @oid5 = case @d_id when 5 then @o_id else @oid5 end,
       @oid6 = case @d_id when 6 then @o_id else @oid6 end,
       @oid7 = case @d_id when 7 then @o_id else @oid7 end,
       @oid8 = case @d_id when 8 then @o_id else @oid8 end,
       @oid9 = case @d_id when 9 then @o_id else @oid9 end,

```

```

       @oid10 = case @d_id when 10 then @o_id else @oid10 end

end
commit tran d
-- return delivery data to client
select @oid1,
       @oid2,
       @oid3,
       @oid4,
       @oid5,
       @oid6,
       @oid7,
       @oid8,
       @oid9,
       @oid10
go

```

NEWORDER.SQL

```

-- File:      NEWORDER.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21.000
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates new order transaction stored procedure
--
--           Interface Level: 4.10.000

use tpcc
go

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

create proc tpcc_neworder
       @w_id      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,

```

```

@ol_qty9  smallint = 0,
@ol_qty10 smallint = 0,
@ol_qty11 smallint = 0,
@ol_qty12 smallint = 0,
@ol_qty13 smallint = 0,
@ol_qty14 smallint = 0,
@ol_qty15 smallint = 0

as
declare @w_tax          numeric(4,4),
        @d_tax          numeric(4,4),
        @c_last         char(16),
        @c_credit       char(2),
        @c_discount     numeric(4,4),
        @i_price        numeric(5,2),
        @i_name         char(24),
        @i_data         char(50),
        @o_entry_d      datetime,
        @remote_flag    int,
        @s_quantity    smallint,
        @s_data         char(50),
        @s_dist         char(24),
        @li_no          int,
        @o_id           int,
        @commit_flag    tinyint,
        @li_id         int,
        @li_s_w_id     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

```

```

@i_id9  int = 0, @s_w_id9  int = 0,
@i_id10 int = 0, @s_w_id10 int = 0,
@i_id11 int = 0, @s_w_id11 int = 0,
@i_id12 int = 0, @s_w_id12 int = 0,
@i_id13 int = 0, @s_w_id13 int = 0,
@i_id14 int = 0, @s_w_id14 int = 0,
@i_id15 int = 0, @s_w_id15 int = 0,

```

```

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 (tablock repeatableread)
    where i_id = @li_id

-- update stock values

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

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

-- insert order_line data (using data from item and stock)

                insert into order_line values(@o_id,
                                                @d_id,
                                                @w_id,
                                                @li_no,
                                                @li_id,
                                                @li_s_w_id,
                                                "dec 31, 1899",
                                                @li_qty,
                                                @i_price * @li_qty,
                                                @s_dist)

-- send line-item data to client

                select @i_name,
                       @s_quantity,
                       b_g = case when (
(patindex("%ORIGINAL%",@i_data) > 0) and
(patindex("%ORIGINAL%",@s_data) > 0) )
                       then "B" else "G" end,
                       @i_price,
                       @i_price * @li_qty

```

```

        end
        else
        begin

-- no item (or stock) found - triggers rollback condition

                select "",0,"",0,0
                select @commit_flag = 0

        end

        end

-- get customer last name, discount, and credit rating

        select @c_last      = c_last,
               @c_discount  = c_discount,
               @c_credit     = c_credit,
               @c_id_local  = c_id
        from customer (repeatableread)
        where c_id          = @c_id and
               c_w_id       = @w_id and
               c_d_id       = @d_id

-- insert fresh row into orders table

        insert into orders values ( @o_id,
                                    @d_id,
                                    @w_id,
                                    @c_id_local,
                                    @o_entry_d,
                                    0,
                                    @o_ol_cnt,
                                    @o_all_local)

-- insert corresponding row into new-order table

        insert into new_order values ( @o_id,
                                       @d_id,
                                       @w_id)

-- select warehouse tax

        select @w_tax = w_tax
        from warehouse (repeatableread)
        where w_id = @w_id

        if (@commit_flag = 1)
            commit transaction n
        else

-- all that work for nuthin!!!

            rollback transaction n

-- return order data to client

        select @w_tax,
               @d_tax,
               @o_id,

```

```

@c_last,
@c_discount,
@c_credit,
@o_entry_d,
@commit_flag

end

go

```

ORDSTAT.SQL

```

-- File:      ORDSTAT.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21.000
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates order status transaction stored procedure
--
--           Interface Level: 4.10.000

use tpcc
go

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

create proc tpcc_orderstatus @w_id  int,
                             @d_id  tinyint,

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

as

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

begin tran o

if (@c_id = 0)
    begin

-- get customer id and info using last name

        select @cnt = (count(*)+1)/2
        from customer (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 (repeatableread)
    where c_last = @c_last and
          c_w_id = @w_id and
          c_d_id = @d_id
    order by c_w_id, c_d_id, c_last, c_first

    set rowcount 0

end

else

begin

-- get customer info if by id

        select @c_balance = c_balance,
               @c_first = c_first,
               @c_middle = c_middle,
               @c_last = c_last
        from customer (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 (serializable)
        where o_c_id = @c_id and
              o_d_id = @d_id and
              o_w_id = @w_id
        order by o_id asc

-- select order lines for the current order

        select ol_supply_w_id,
               ol_i_id,
               ol_quantity,
               ol_amount,
               ol_delivery_d
        from order_line (repeatableread)
        where ol_o_id = @o_id and
              ol_d_id = @d_id and
              ol_w_id = @w_id

```

```

custnotfound:
commit tran o

-- return data to client

select @c_id,
       @c_last,
       @c_first,
       @c_middle,
       @o_entry_d,
       @o_carrier_id,
       @c_balance,
       @o_id

go

```

PAYMENT.SQL

```

-- File:      PAYMENT.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21.000
--           Copyright Microsoft, 1999, 2000
-- Purpose:   Creates payment transaction stored procedure
--
--           Interface Level: 4.10.000

use tpcc
go

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

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

as
declare @w_street_1 char(20),
        @w_street_2 char(20),
        @w_city     char(20),
        @w_state    char(2),
        @w_zip      char(9),
        @w_name     char(10),
        @d_street_1 char(20),
        @d_street_2 char(20),
        @d_city     char(20),
        @d_state    char(2),
        @d_zip      char(9),
        @d_name     char(10),
        @c_first    char(16),
        @c_middle   char(2),
        @c_street_1 char(20),

```

```

@c_street_2    char(20),
@c_city        char(20),
@c_state       char(2),
@c_zip         char(9),
@c_phone       char(16),
@c_since       datetime,
@c_credit      char(2),
@c_credit_lim  numeric(12,2),
@c_balance     numeric(12,2),
@c_discount    numeric(4,4),
@c_data        char(42),
@datetime      datetime,
@w_ytd         numeric(12,2),
@d_ytd         numeric(12,2),
@cnt           smallint,
@val           smallint,
@screen_data   char(200),
@d_id_local    tinyint,
@w_id_local    int,
@c_id_local    int

```

```

select @screen_data = ''

begin tran p

-- get payment date

select @datetime = getdate()

if (@c_id = 0)
begin

-- get customer id and info using last name

select @cnt = count(*)
from customer (repeatableread)
where c_last = @c_last and
      c_w_id = @c_w_id and
      c_d_id = @c_d_id

select @val = (@cnt + 1) / 2
set rowcount @val

select @c_id = c_id
from customer (repeatableread)
where c_last = @c_last and
      c_w_id = @c_w_id and
      c_d_id = @c_d_id
order by c_last, c_first

set rowcount 0

end

-- get customer info and update balances

update customer
set @c_balance = c_balance = c_balance - @h_amount,
    c_payment_cnt = c_payment_cnt + 1,
    c_ytd_payment = c_ytd_payment + @h_amount,
    @c_first = c_first,

```

```

        @c_middle      = c_middle,
        @c_last        = c_last,
        @c_street_1    = c_street_1,
        @c_street_2    = c_street_2,
        @c_city         = c_city,
        @c_state        = c_state,
        @c_zip          = c_zip,
        @c_phone        = c_phone,
        @c_credit       = c_credit,
        @c_credit_lim   = c_credit_lim,
        @c_discount     = c_discount,
        @c_since        = c_since,
        @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

                select @screen_data = substring (@c_data, 1, 200)

-- get district data and update year-to-date

        update district
        set      d_ytd      = d_ytd + @h_amount,
                @d_street_1 = d_street_1,
                @d_street_2 = d_street_2,
                @d_city     = d_city,
                @d_state    = d_state,
                @d_zip      = d_zip,
                @d_name     = d_name,
                @d_id_local = d_id
        where   d_w_id     = @w_id and
                d_id      = @d_id

-- get warehouse data and update year-to-date

        update warehouse

```

```

        set      w_ytd      = w_ytd + @h_amount,
                @w_street_1 = w_street_1,
                @w_street_2 = w_street_2,
                @w_city     = w_city,
                @w_state    = w_state,
                @w_zip      = w_zip,
                @w_name     = w_name,
                @w_id_local = w_id
        where   w_id      = @w_id

-- create history record

        insert into history values ( @c_id_local,
                                     @c_d_id,
                                     @c_w_id,
                                     @d_id_local,
                                     @w_id_local,
                                     @datetime,
                                     @h_amount,
                                     @w_name + ' ' + @d_name)

commit tran p

-- return data to client

select @c_id,
       @c_last,
       @datetime,
       @w_street_1,
       @w_street_2,
       @w_city,
       @w_state,
       @w_zip,
       @d_street_1,
       @d_street_2,
       @d_city,
       @d_state,
       @d_zip,
       @c_first,
       @c_middle,
       @c_street_1,
       @c_street_2,
       @c_city,
       @c_state,
       @c_zip,
       @c_phone,
       @c_since,
       @c_credit,
       @c_credit_lim,
       @c_discount,
       @c_balance,
       @screen_data

go

STOCKLEV.SQL

-- File:      STOCKLEV.SQL
--           Microsoft TPC-C Benchmark Kit Ver. 4.21.000
--           Copyright Microsoft, 1999, 2000

```



```

-- Purpose:  Creates stock level transaction stored procedure
--
--      Interface Level: 4.10.000

use tpcc
go

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

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

declare @o_id_low int,
        @o_id_high int

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

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

go

```

VERSION.SQL

```

-- File:      VERSION.SQL
--            Microsoft TPC-C Benchmark Kit Ver. 4.21.000
--            Copyright Microsoft, 1999, 2000
-- Purpose:   Returns version level of TPC-C stored procs
-- Note:      Always update the return value of this proc for
--            any interface changes or "must have" bug fixes.
--
-- The value returned by this SP defines the "interface level",
-- which must match between the stored procs and the client code.
-- The interface level may be down rev from the current kit. This
-- indicates that the interface hasn't changed since that version.

use tpcc
go

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

create proc tpcc_version

```

```

as
declare @version            char(8)

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

go

```

Loader Source

GETARGS.C

```

//      File:      GETARGS.C
//              Microsoft TPC-C Kit Ver. 4.21
//              Copyright Microsoft, 1996, 1997, 1998, 1999,
2000
//      Purpose:   Source file for command line processing

// Includes
#include "tpcc.h"

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

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

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

    /* init args struct with some useful values */
    pargs->server          = SERVER;
    pargs->user            = USER;
    pargs->password        = PASSWORD;
    pargs->database        = DATABASE;
    pargs->batch           = BATCH;
    pargs->num_warehouses  = UNDEF;
    pargs->tables_all      = TRUE;
    pargs->table_item      = FALSE;
    pargs->table_warehouse = FALSE;
    pargs->table_customer  = FALSE;
    pargs->table_orders    = FALSE;
    pargs->loader_res_file  = LOADER_RES_FILE;
    pargs->pack_size       = DEFALDPACKSIZE;
    pargs->starting_warehouse = DEF_STARTING_WAREHOUSE;
    pargs->build_index      = BUILD_INDEX;
    pargs->index_order     = INDEX_ORDER;

```

```

    pargs->index_script_path    = INDEX_SCRIPT_PATH;
    pargs->scale_down           = SCALE_DOWN;

/* check for zero command line args */
if ( argc == 1 )
    GetArgsLoaderUsage();

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

    ptr = argv[i];

    switch (ptr[1])
    {
    case 'h':      /* Fall throught */
    case 'H':
        GetArgsLoaderUsage();
        break;

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

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

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

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

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

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

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

    case 't':
        {
            pargs->tables_all = FALSE;
            if (strcmp(ptr+2,"item") == 0)
                pargs->table_item = TRUE;
            else if (strcmp(ptr+2,"warehouse")

```

```

== 0)

```

```

TRUE;

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

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

case '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) DEFPLDPACKSIZE);
    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. 4.21
//      Copyright Microsoft, 1996, 1997, 1998, 1999,
2000
//      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. 4.21
// Copyright Microsoft, 1996, 1997, 1998, 1999,
2000
// Purpose: Source file for database loader string functions

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

//=====
//
// Function name: MakeAddress
//
//=====

```

```

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

    MakeAlphaString (10, 20, ADDRESS_LEN, street_1);
    MakeAlphaString (10, 20, ADDRESS_LEN, street_2);
    MakeAlphaString (10, 20, ADDRESS_LEN, city);
    MakeAlphaString ( 2,  2, STATE_LEN, state);
    MakeZipNumberString( 9,  9, ZIP_LEN, zip);

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

    return;
}

//=====
//
// Function name: LastName
//
//=====

void LastName(int num,
              char *name)
{
    static char *n[] =
    {
        "BAR" , "OUGHT", "ABLE" , "PRI" , "PRES",
        "ESE" , "ANTI" , "CALLY", "ATION", "EING"
    };

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

    if ((num >= 0) && (num < 1000))
    {
        strcpy(name, n[(num/100)%10]);
        strcat(name, n[(num/10)%10]);
        strcat(name, n[(num/1)%10]);

        if (strlen(name) < LAST_NAME_LEN)
        {
            PaddString(LAST_NAME_LEN, name);
        }
    }
}

```

```

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

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

    return;
}

//=====
//
// Function name: MakeAlphaString
//
//=====

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

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

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

    len= RandomNumber(x, y);

```

```

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

    return len;
}

//=====
//
// Function name: MakeOriginalAlphaString
//
//=====

int MakeOriginalAlphaString(int x,
                            int y,
                            int z,
                            char *str,
                            int percent)
{
    int len;
    int val;
    int start;

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

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

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

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

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

```

```

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

    return strlen(str);
}

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

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

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

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

    str[16] = 0;

    return 16;
}

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

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

    strcpy(str, "000011111");

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

    return 9;
}

//=====
//
// Function name: InitString
//
//=====
void InitString(char *str, int len)

```

```

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

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

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

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

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

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

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

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

    return;
}

//
// File: TIME.C
// Microsoft TPC-C Kit Ver. 4.21

```

TIME.C

```

//          Copyright Microsoft, 1996, 1997, 1998, 1999,
2000
//          Purpose:      Source file for time functions

// Includes
#include "tpcc.h"

// Globals
static long start_sec;

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

long TimeNow()
{
    long         time_now;
    struct       _timeb el_time;

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

    _ftime(&el_time);

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

    return time_now;
}

```

TPCC.H

```

//          File:          TPC.H
//
//          Microsoft TPC-C Kit Ver. 4.21
//          Copyright Microsoft, 1996, 1997, 1998, 1999,
2000
//          Purpose:      Header file for TPC-C database loader

// Build number of TPC Benchmark Kit
#define TPCKIT_VER      "4.21"

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

// ODBC headers

```

```

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

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

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

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

typedef struct
{
    char          *server;
    char          *database;
    char          *user;
    char          *password;
    BOOL          tables_all; // set
    BOOL          table_item; // set
    BOOL          table_warehouse; // set if
loading WAREHOUSE, DISTRICT, and STOCK
    BOOL          table_customer; // set
    BOOL          table_orders; // set if
loading NEW-ORDER, ORDERS, ORDER-LINE
    long          num_warehouses;
    long          batch;
    long          verbose;
    long          pack_size;
    char          *loader_res_file;
    char          *synch_servername;
    long          case_sensitivity;
    long          starting_warehouse;
    long          build_index;
    long          index_order;
    long          scale_down;
    char          *index_script_path;
} TPCC_LDR_ARGS;

```



```

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

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

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

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

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

```

TPCCLDR.C

```

// File:          TPCCLDR.C
//               Microsoft TPC-C Kit Ver. 4.21
//               Copyright Microsoft, 1996, 1997, 1998, 1999,
2000
// Purpose:       Source file for TPC-C database loader
// Modified      12/13/2002 to support 32 bit W-IDs - RBS

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

// Defines
#define MAXITEMS          100000
#define MAXITEMS_SCALE_DOWN 100
#define CUSTOMERS_PER_DISTRICT 3000
#define CUSTOMERS_SCALE_DOWN 30
#define DISTRICT_PER_WAREHOUSE 10
#define ORDERS_PER_DISTRICT 3000
#define ORDERS_SCALE_DOWN 30
#define MAX_CUSTOMER_THREADS 2
#define MAX_ORDER_THREADS 3
#define MAX_MAIN_THREADS 4

// Functions declarations
void HandleErrorDBC (SQLHDBC hdbc1);

void CheckSQL();
void CheckDataBase();

long NURand();
void LoadItem();
void LoadWarehouse();

void Stock();
void District();

void LoadCustomer();
void CustomerBufInit();
void CustomerBufLoad();
void LoadCustomerTable();
void LoadHistoryTable();

void LoadOrders();
void OrdersBufInit();
void OrdersBufLoad();
void LoadOrdersTable();
void LoadNewOrderTable();
void LoadOrderLineTable();
void GetPermutation();
void CheckForCommit();
void OpenConnections();
void BuildIndex();
void FormatDate ();

// Shared memory structures

```

```

typedef struct
{
    long          ol;
    long          ol_i_id;
    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;
    // fix to avoid ODBC float to numeric conversion problem.
    // double        c_balance;
    char          c_balance[6];

    double        c_ytd_payment;
    short         c_payment_cnt;
    short         c_delivery_cnt;
    char          c_data[C_DATA_LEN+1];
    double        h_amount;
    char          h_data[H_DATA_LEN+1];
} CUSTOMER_STRUCT;

typedef struct
{
    char          c_last[LAST_NAME_LEN+1];
    char          c_first[FIRST_NAME_LEN+1];
    long          c_id;
} CUSTOMER_SORT_STRUCT;

typedef struct

```

```

{
    long          time_start;
} LOADER_TIME_STRUCT;

// Global variables
char          szLastError[300];
HENV          henv;

HDBC          v_hdbc; // for SQL Server
version verification
HDBC          i_hdbc1; // for ITEM table
HDBC          w_hdbc1; // for WAREHOUSE,
DISTRICT, STOCK
HDBC          c_hdbc1; // for CUSTOMER
HDBC          c_hdbc2; // for HISTORY
HDBC          o_hdbc1; // for ORDERS
HDBC          o_hdbc2; // for NEW-ORDER

HDBC          o_hdbc3; // for ORDER-LINE

HSTMT         v_hstmt; // for SQL Server
version verification
HSTMT         i_hstmt1;
HSTMT         w_hstmt1;
HSTMT         c_hstmt1, c_hstmt2;
HSTMT         o_hstmt1, o_hstmt2, o_hstmt3;

ORDERS_STRUCT orders_buf[ORDERS_PER_DISTRICT];
CUSTOMER_STRUCT customer_buf[CUSTOMERS_PER_DISTRICT];
long          orders_rows_loaded;
long          new_order_rows_loaded;
long          order_line_rows_loaded;
long          history_rows_loaded;
long          customer_rows_loaded;
long          stock_rows_loaded;
long          district_rows_loaded;
long          item_rows_loaded;
long          warehouse_rows_loaded;
long          main_time_start;
long          main_time_end;
long          max_items;
long          customers_per_district;
long          orders_per_district;
long          first_new_order;
long          last_new_order;

TPCCLDR_ARGS *aptr, args;
HANDLE        hIndexMutex;

//=====
//
// Function name: main
//
//=====

int main(int argc, char **argv)

```

```

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

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

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

// process command line arguments

aptr = &args;
GetArgsLoader(argc, argv, aptr);

// verify database and tables exist before attempting to load

CheckDataBase();

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

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

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

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

```

```

        last_new_order = 3000;
    }

// open connections to SQL Server

OpenConnections();

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

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

// start loading data

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

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

main_time_start = (TimeNow() / MILLI);
hIndexMutex = CreateMutex (NULL, FALSE, NULL);
// start parallel load threads

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

    hThread[0] = CreateThread(NULL,

                                0,

(LPTHREAD_START_ROUTINE) LoadItem,

                                NULL,

                                0,

&dwThreadID[0]);

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

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

    hThread[1] = CreateThread(NULL,

                                0,

(LPTHREAD_START_ROUTINE) LoadWarehouse,

                                NULL,

```

```

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

```

```

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

    // Seed with unique number
    seed(1);

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

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

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

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

    rc = bcp_init(i_hdbc1, name, NULL, "logs\\item.err", DB_IN);
    if (rc != 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 != SUCCEEDED)
            HandleErrorDBC(i_hdbc1);
    }

    rc = bcp_bind(i_hdbc1, (BYTE *) &i_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);

    rc = bcp_bind(i_hdbc1, (BYTE *) &i_im_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT4, 2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);

    rc = bcp_bind(i_hdbc1, (BYTE *) i_name, 0, I_NAME_LEN, NULL, 0, 0,
3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);

    rc = bcp_bind(i_hdbc1, (BYTE *) &i_price, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);

    rc = bcp_bind(i_hdbc1, (BYTE *) i_data, 0, I_DATA_LEN, NULL, 0, 0,
5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(i_hdbc1);

    time_start = (TimeNow() / MILLI);

    item_rows_loaded = 0;

    for (i_id = 1; i_id <= max_items; i_id++)
    {
        i_im_id = RandomNumber(1L, 10000L);

        MakeAlphaString(14, 24, I_NAME_LEN, i_name);

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

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

        rc = bcp_sendrow(i_hdbc1);
        if (rc != SUCCEEDED)
            HandleErrorDBC(i_hdbc1);

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

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

```

```

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

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

// if build index after load
if ((aptr->build_index == 1) && (aptr->index_order == 0))
    BuildIndex("idxitm1");
}

//=====
//
// Function : LoadWarehouse
//
// Loads WAREHOUSE table and loads Stock and District as Warehouses are
created
//
//=====
void LoadWarehouse()
{
    long        w_id;
    char        w_name[W_NAME_LEN+1];
    char        w_street_1[ADDRESS_LEN+1];
    char        w_street_2[ADDRESS_LEN+1];
    char        w_city[ADDRESS_LEN+1];
    char        w_state[STATE_LEN+1];
    char        w_zip[ZIP_LEN+1];
    double      w_tax;
    double      w_ytd;
    char        name[20];
    long        time_start;
    RETCODE rc;
    DBINT       rcint;
    char        bcphint[128];

    // 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("idxwar1");

    InitString(w_name, W_NAME_LEN+1);
    InitAddress(w_street_1, w_street_2, w_city, w_state, w_zip);

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

    rc = bcp_init(w_hdbc1, name, NULL, "logs\\whouse.err", DB_IN);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

    if ((aptr->build_index == 1) && (aptr->index_order == 1))

```

```

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

    rc = bcp_bind(w_hdbc1, (BYTE *) &w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, 1);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_name, 0, W_NAME_LEN, NULL, 0, 0,
2);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_street_1, 0, ADDRESS_LEN, NULL,
0, 0, 3);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_street_2, 0, ADDRESS_LEN, NULL,
0, 0, 4);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_city, 0, ADDRESS_LEN, NULL, 0,
0, 5);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_state, 0, STATE_LEN, NULL, 0, 0,
6);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) w_zip, 0, ZIP_LEN, NULL, 0, 0, 7);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) &w_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 8);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) &w_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 9);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    time_start = (TimeNow() / MILLI);

    warehouse_rows_loaded = 0;

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

```

```

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

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

        w_ytd = 300000.00;

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

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

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

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

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

    stock_rows_loaded = 0;
    district_rows_loaded = 0;

    District();
    Stock();
}

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

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

```

```

// Seed with unique number
seed(4);

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

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

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

rc = bcp_init(w_hdbc1, name, NULL, "logs\\district.err", DB_IN);
if (rc != 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);
}

rc = bcp_bind(w_hdbc1, (BYTE *) &d_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, 1);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &d_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, 2);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_name, 0, D_NAME_LEN, NULL, 0, 0,
3);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_street_1, 0, ADDRESS_LEN, NULL,
0, 0, 4);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_street_2, 0, ADDRESS_LEN, NULL,
0, 0, 5);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_city, 0, ADDRESS_LEN, NULL, 0,
0, 6);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) d_state, 0, STATE_LEN, NULL, 0, 0,
7);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

```

```

rc = bcp_bind(w_hdbc1, (BYTE *) d_zip, 0, ZIP_LEN, NULL, 0, 0, 8);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &d_tax, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 9);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &d_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 10);
if (rc != SUCCEED)
    HandleErrorDBC(w_hdbc1);

rc = bcp_bind(w_hdbc1, (BYTE *) &d_next_o_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT4, 11);
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++)
    {
        MakeAlphaString(6,10,D_NAME_LEN, d_name);

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

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

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

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

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

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

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

return;
}

```

```

//=====
//
// Function   : Stock
//
//=====

void Stock()
{
    long      s_i_id;
    long      s_w_id;
    short     s_quantity;
    char      s_dist_01[S_DIST_LEN+1];
    char      s_dist_02[S_DIST_LEN+1];
    char      s_dist_03[S_DIST_LEN+1];
    char      s_dist_04[S_DIST_LEN+1];
    char      s_dist_05[S_DIST_LEN+1];
    char      s_dist_06[S_DIST_LEN+1];
    char      s_dist_07[S_DIST_LEN+1];
    char      s_dist_08[S_DIST_LEN+1];
    char      s_dist_09[S_DIST_LEN+1];
    char      s_dist_10[S_DIST_LEN+1];
    long      s_ytd;
    short     s_order_cnt;
    short     s_remote_cnt;
    char      s_data[S_DATA_LEN+1];
    short     len;
    char      name[20];
    long      time_start;
    RETCODE rc;
    DBINT     rcint;
    char      bcphint[128];

    // Seed with unique number
    seed(3);

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

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

    rc = bcp_init(w_hdbc1, name, NULL, "logs\\stock.err", DB_IN);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

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

    rc = bcp_bind(w_hdbc1, (BYTE *) &s_i_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(w_hdbc1);

```

```

        bcp_bind(w_hdbc1, (BYTE *) &s_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) &s_quantity, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 3);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_01, 0, S_DIST_LEN, NULL, 0,
0, 4);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_02, 0, S_DIST_LEN, NULL, 0,
0, 5);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_03, 0, S_DIST_LEN, NULL, 0,
0, 6);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_04, 0, S_DIST_LEN, NULL, 0,
0, 7);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_05, 0, S_DIST_LEN, NULL, 0,
0, 8);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_06, 0, S_DIST_LEN, NULL, 0,
0, 9);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_07, 0, S_DIST_LEN, NULL, 0,
0, 10);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_08, 0, S_DIST_LEN, NULL, 0,
0, 11);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_09, 0, S_DIST_LEN, NULL, 0,
0, 12);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

        rc = bcp_bind(w_hdbc1, (BYTE *) s_dist_10, 0, S_DIST_LEN, NULL, 0,
0, 13);
        if (rc != SUCCEEDED)
            HandleErrorDBC(w_hdbc1);

```



```

    rc = bcp_bind(w_hdbc1, (BYTE *) &s_ytd, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT4, 14);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) &s_order_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 15);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) &s_remote_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 16);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    rc = bcp_bind(w_hdbc1, (BYTE *) s_data, 0, S_DATA_LEN, NULL, 0, 0,
17);
    if (rc != SUCCEED)
        HandleErrorDBC(w_hdbc1);

    s_ytd = s_order_cnt = s_remote_cnt = 0;

    time_start = (TimeNow() / MILLI);

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

    for (s_i_id=1; s_i_id <= max_items; s_i_id++)
    {
        for (s_w_id = aptr->starting_warehouse; s_w_id <= aptr-
>num_warehouses; s_w_id++)
        {
            s_quantity = (short)RandomNumber(10L,100L);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_01);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_02);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_03);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_04);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_05);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_06);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_07);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_08);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_09);
            len = MakeAlphaString(24,24,S_DIST_LEN, s_dist_10);

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

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

            stock_rows_loaded++;
            CheckForCommit(w_hdbc1, w_hstmt1,
stock_rows_loaded, "stock", &time_start);
        }
    }

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

```

```

        HandleErrorDBC(w_hdbc1);

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

    SQLFreeStmt(w_hstmt1, SQL_DROP);
    SQLDisconnect(w_hdbc1);
    SQLFreeConnect(w_hdbc1);

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

    return;
}

//=====
//
// Function : LoadCustomer
//
//=====

void LoadCustomer()
{
    LOADER_TIME_STRUCT customer_time_start;
    LOADER_TIME_STRUCT history_time_start;
    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];
    // SQLRETURN rc_1;
    // SQLSMALLINT recnum, MsgLen;
    // SQLCHAR SqlState[6],
    Msg[SQL_MAX_MESSAGE_LENGTH];
    // SQLINTEGER NativeError;

    // Seed with unique number
    seed(5);

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

    // if build index before load...
    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        BuildIndex("idxcuscl");
        BuildIndex("idxhiscl"); // added history clustered index
        // 9/10/2001
    }
    RBS
}
Sleep(30000); // Give the other guys a chance to get finished
// Initialize bulk copy
sprintf(name, "%s..%s", aptr->database, "customer");

rc = bcp_init(c_hdbc1, name, NULL, "logs\\customer.err", DB_IN);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc1);

```

```

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

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

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

//    sprintf(bcphint, "tablock");
//    sprintf(bcphint, "tablock, order (h_c_w_id, h_date, h_c_d_id,
//    h_c_id, h_amount), ROWS_PER_BATCH = %u", (aptr->num_warehouses * 30000));
//    Add hint to help history index creation
//    9/10/2001 RBS
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 = aptr->starting_warehouse; w_id <= aptr-
>num_warehouses; w_id++)
{
    for (d_id = 1; d_id <= DISTRICT_PER_WAREHOUSE; d_id++)
    {
        CustomerBufLoad(d_id, w_id);

        // Start parallel loading threads here...

        // Start customer table thread

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

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

        if (hThread[0] == NULL)
        {

```

```

        printf("Error, failed in creating creating
thread = 0.\n");
        exit(-1);
        }
        // Start History table thread

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

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

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

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

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

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

        }

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

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

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

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

```

```

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

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

system(cmd);

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

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

return;
}

//=====
//
// Function : CustomerBufInit
//
//=====

void CustomerBufInit()
{
    int i;

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

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

        customer_buf[i].c_credit_lim = 0;

```

```

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

// fix to avoid ODBC float to numeric conversion problem.
// customer_buf[i].c_balance = 0;
strcpy(customer_buf[i].c_balance,"");

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

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

customer_buf[i].h_amount = 0;

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

    }
}

//=====
//
// Function : CustomerBufLoad
//
// Fills shared buffer for HISTORY and CUSTOMER
//=====

void CustomerBufLoad(int d_id, int w_id)
{
    long i;
    CUSTOMER_SORT_STRUCT c[CUSTOMERS_PER_DISTRICT];

    for (i=0;i<customers_per_district;i++)
    {
        if (i < 1000)
            LastName(i, c[i].c_last);
        else
            LastName(NURand(255,0,999,LOADER_NURAND_C),
c[i].c_last);

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

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

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

    for (i=0;i<customers_per_district;i++)
    {
        customer_buf[i].c_d_id = d_id;
        customer_buf[i].c_w_id = w_id;
        customer_buf[i].h_amount = 10.0;

        customer_buf[i].c_ytd_payment = 10.0;

```

```

customer_buf[i].c_payment_cnt = 1;
customer_buf[i].c_delivery_cnt = 0;

// Generate CUSTOMER and HISTORY data

customer_buf[i].c_id = c[i].c_id;

strcpy(customer_buf[i].c_first, c[i].c_first);
strcpy(customer_buf[i].c_last, c[i].c_last);

customer_buf[i].c_middle[0] = 'O';
customer_buf[i].c_middle[1] = 'E';

MakeAddress(customer_buf[i].c_street_1,
            customer_buf[i].c_street_2,
            customer_buf[i].c_city,
            customer_buf[i].c_state,
            customer_buf[i].c_zip);

MakeNumberString(16, 16, PHONE_LEN,
customer_buf[i].c_phone);

if (RandomNumber(1L, 100L) > 10)
    customer_buf[i].c_credit[0] = 'G';
else
    customer_buf[i].c_credit[0] = 'B';
customer_buf[i].c_credit[1] = 'C';

customer_buf[i].c_credit_lim = 50000.0;
customer_buf[i].c_discount = ((float) RandomNumber(0L,
5000L)) / 10000.0;

// fix to avoid ODBC float to numeric conversion problem.

// customer_buf[i].c_balance = -10.0;
strcpy(customer_buf[i].c_balance, "-10.0");

MakeAlphaString(300, 500, C_DATA_LEN,
customer_buf[i].c_data);

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

//=====
//
// Function   : LoadCustomerTable
//
//=====

void LoadCustomerTable(LOADER_TIME_STRUCT *customer_time_start)
{
    int         i;
    long        c_id;
    short       c_d_id;
    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;

// fix to avoid ODBC float to numeric conversion problem.

// double        c_balance;
char          c_balance[6];

double        c_ytd_payment;
short         c_payment_cnt;
short         c_delivery_cnt;
char          c_data[C_DATA_LEN+1];
char          c_since[C_SINCE_LEN+1];
char          rc;

rc = bcp_bind(c_hdbc1, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, 3);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) c_first, 0, FIRST_NAME_LEN, NULL, 0,
0, 4);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) c_middle, 0, MIDDLE_NAME_LEN, NULL, 0,
0, 5);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) c_last, 0, LAST_NAME_LEN, NULL, 0, 0,
6);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) c_street_1, 0, ADDRESS_LEN, NULL, 0,
0, 7);
if (rc != SUCCEED)
    HandleErrorDBC(c_hdbc1);

rc = bcp_bind(c_hdbc1, (BYTE *) c_street_2, 0, ADDRESS_LEN, NULL, 0, 0,
8);
if (rc != SUCCEED)

```

```

        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_city, 0, ADDRESS_LEN, NULL, 0, 0,
9);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_state, 0, STATE_LEN, NULL, 0, 0,
10);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_zip, 0, ZIP_LEN, NULL, 0, 0, 11);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_phone, 0, PHONE_LEN, NULL, 0, 0,
12);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_since, 0, C_SINCE_LEN, NULL, 0,
SQLCHARACTER, 13);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_credit, 0, CREDIT_LEN, NULL, 0, 0,
14);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_credit_lim, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, 15);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_discount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 16);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    // fix to avoid ODBC float to numeric conversion problem.

    // rc = bcp_bind(c_hdbc1, (BYTE *) &c_balance, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, 17);
    // if (rc != SUCCEEDED)
    //     HandleErrorDBC(c_hdbc1);
    rc = bcp_bind(c_hdbc1, (BYTE *) c_balance, 0, 5, NULL, 0,
SQLCHARACTER, 17);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_ytd_payment, 0, SQL_VARLEN_DATA,
NULL, 0, SQLFLT8, 18);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_payment_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 19);

```

```

        if (rc != SUCCEEDED)
            HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) &c_delivery_cnt, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 20);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

    rc = bcp_bind(c_hdbc1, (BYTE *) c_data, 0, 500, NULL, 0, 0, 21);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc1);

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

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

        FormatDate(&c_since);

        c_credit_lim = customer_buf[i].c_credit_lim;
        c_discount = customer_buf[i].c_discount;

        // fix to avoid ODBC float to numeric conversion problem.

        // c_balance = customer_buf[i].c_balance;
        strcpy(c_balance, customer_buf[i].c_balance);

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

        strcpy(c_data, customer_buf[i].c_data);

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

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

//=====
//
// Function : LoadHistoryTable

```

```

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

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 3);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 4);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &c_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 5);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &h_date, 0, H_DATE_LEN, NULL, 0,
SQLCHARACTER, 6);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

    rc = bcp_bind(c_hdbc2, (BYTE *) &h_amount, 0, SQL_VARLEN_DATA, NULL,
0, SQLFLT8, 7);
    if (rc != SUCCEEDED)
        HandleErrorDBC(c_hdbc2);

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

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

```

```

        FormatDate(&h_date);

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

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

//=====
//
// Function   : LoadOrders
//
//=====
void LoadOrders()
{
    LOADER_TIME_STRUCT    orders_time_start;
    LOADER_TIME_STRUCT    new_order_time_start;
    LOADER_TIME_STRUCT    order_line_time_start;
    long                  w_id;
    short                  d_id;
    DWORD                  dwThreadID[MAX_ORDER_THREADS];
    HANDLE                 hThread[MAX_ORDER_THREADS];
    char                   name[20];
    RETCODE                rc;
    char                   bcphint[128];

    // seed with unique number
    seed(6);

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

    // if build index before load...
    if ((aptr->build_index == 1) && (aptr->index_order == 1))
    {
        BuildIndex("idxordc1");
        BuildIndex("idxnodc1");
        BuildIndex("idxodlc1");
    }

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

    rc = bcp_init(o_hdbc1, name, NULL, "logs\\orders.err", DB_IN);
    if (rc != SUCCEEDED)
        HandleErrorDBC(o_hdbc1);

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

```

```

        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc1);
    }

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

    rc = bcp_init(o_hdbc2, name, NULL, "logs\\neword.err", DB_IN);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc2);

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

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

    rc = bcp_init(o_hdbc3, name, NULL, "logs\\ordline.err", DB_IN);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

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

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

    OrdersBufInit();

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

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

            OrdersBufLoad(d_id, w_id);

            // start parallel loading threads here...

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

            hThread[0] = CreateThread(NULL,

```

```

0,
(LPTHREAD_START_ROUTINE) LoadOrdersTable,
&orders_time_start,
0,
&dwThreadID[0]);

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

        // start NewOrder table thread

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

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

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

        // start Order-Line table thread

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

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

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

        WaitForSingleObject( hThread[0], INFINITE );

```

```

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

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

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

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

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

return;
}

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

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

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

```

```

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

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

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

    GetPermutation(cust, orders_per_district);

    for (o_id=0;o_id<orders_per_district;o_id++)
    {
        // Generate ORDER and NEW-ORDER data

        orders_buf[o_id].o_d_id = d_id;
        orders_buf[o_id].o_w_id = w_id;
        orders_buf[o_id].o_id = o_id+1;
        orders_buf[o_id].o_c_id = cust[o_id+1];
        orders_buf[o_id].o_ol_cnt = (short)RandomNumber(5L, 15L);

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

        for (ol=0; ol<orders_buf[o_id].o_ol_cnt; ol++)
        {
            orders_buf[o_id].o_ol[ol].ol = ol+1;
            orders_buf[o_id].o_ol[ol].ol_i_id =
RandomNumber(1L, max_items);
            orders_buf[o_id].o_ol[ol].ol_supply_w_id = w_id;
            orders_buf[o_id].o_ol[ol].ol_quantity = 5;
            MakeAlphaString(24, 24, OL_DIST_INFO_LEN,
&orders_buf[o_id].o_ol[ol].ol_dist_info);

```



```

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

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

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

        // odbc datetime format

        strcpy(orders_buf[o_id].o_ol[ol].ol_delivery_d,"1899-12-31
00:00:00.000");
    }
}

//=====
//
// Function   : LoadOrdersTable
//
//=====

void LoadOrdersTable(LOADER_TIME_STRUCT *orders_time_start)
{
    int         i;
    long        o_id;
    short       o_d_id;
    long        o_w_id;
    long        o_c_id;
    short       o_carrier_id;
    short       o_ol_cnt;
    short       o_all_local;
    char        o_entry_d[O_ENTRY_D_LEN+1];
    RETCODE     rc;
    DBINT       rcint;

    // bind ORDER data
    rc = bcp_bind(o_hdbc1, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc1);

    rc = bcp_bind(o_hdbc1, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc1);

```

```

    rc = bcp_bind(o_hdbc1, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 3);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc1);

    rc = bcp_bind(o_hdbc1, (BYTE *) &o_c_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 4);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc1);

    rc = bcp_bind(o_hdbc1, (BYTE *) &o_entry_d, 0, O_ENTRY_D_LEN,
NULL, 0, SQLCHARACTER, 5);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc1);

    rc = bcp_bind(o_hdbc1, (BYTE *) &o_carrier_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 6);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc1);

    rc = bcp_bind(o_hdbc1, (BYTE *) &o_ol_cnt, 0, SQL_VARLEN_DATA, NULL,
0, SQLINT2, 7);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc1);

    rc = bcp_bind(o_hdbc1, (BYTE *) &o_all_local, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 8);
    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);
    }

    // rcint = bcp_batch(o_hdbc1);
    // if (rcint < 0)
    //     HandleErrorDBC(o_hdbc1);

    if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
    {
        rcint = bcp_done(o_hdbc1);
        if (rcint < 0)
            HandleErrorDBC(o_hdbc1);
    }

```

```

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

// if build index after load...
if ((aptr->build_index == 1) && (aptr->index_order == 0))
    BuildIndex("idxordc1");

// build non-clustered index
if (aptr->build_index == 1)
    BuildIndex("idxordnc");
// No Non Clustered index on orders
}

}

//=====
//
// Function   : LoadNewOrderTable
//
//=====

void LoadNewOrderTable(LOADER_TIME_STRUCT *new_order_time_start)
{
    int         i;
    long        o_id;
    short       o_d_id;
    long        o_w_id;
    RETCODE     rc;
    DBINT       rcint;

    // Bind NEW-ORDER data

    rc = bcp_bind(o_hdbc2, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc2);

    rc = bcp_bind(o_hdbc2, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc2);

    rc = bcp_bind(o_hdbc2, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 3);
    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(o_hdbc2, o_hstmt2, new_order_rows_loaded,
"new_order", &new_order_time_start->time_start);
    }

    // rcint = bcp_batch(o_hdbc2);
    // if (rcint < 0)
    //     HandleErrorDBC(o_hdbc2);

    if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
    {
        rcint = bcp_done(o_hdbc2);
        if (rcint < 0)
            HandleErrorDBC(o_hdbc2);

        SQLFreeStmt(o_hstmt2, SQL_DROP);
        SQLDisconnect(o_hdbc2);
        SQLFreeConnect(o_hdbc2);

        // if build index after load...
        if ((aptr->build_index == 1) && (aptr->index_order == 0))
            BuildIndex("idxnodc1");
    }
}

//=====
//
// Function   : LoadOrderLineTable
//
//=====

void LoadOrderLineTable(LOADER_TIME_STRUCT *order_line_time_start)
{
    int         i, j;
    long        o_id;
    short       o_d_id;
    long        o_w_id;
    long        ol;
    long        ol_i_id;
    long        ol_supply_w_id;
    short       ol_quantity;
    double      ol_amount;
    char        ol_dist_info[DIST_INFO_LEN+1];
    char        ol_delivery_d[OL_DELIVERY_D_LEN+1];
    RETCODE     rc;
    DBINT       rcint;

    // bind ORDER-LINE data
    rc = bcp_bind(o_hdbc3, (BYTE *) &o_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 1);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &o_d_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 2);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);
}

```

```

    rc = bcp_bind(o_hdbc3, (BYTE *) &o_w_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT2, 3);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 4);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_i_id, 0, SQL_VARLEN_DATA, NULL, 0,
SQLINT4, 5);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_supply_w_id, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 6);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_delivery_d, 0,
OL_DELIVERY_D_LEN, NULL, 0, SQLCHARACTER, 7);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

    rc = bcp_bind(o_hdbc3, (BYTE *) &ol_quantity, 0, SQL_VARLEN_DATA,
NULL, 0, SQLINT2, 8);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

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

    rc = bcp_bind(o_hdbc3, (BYTE *) ol_dist_info, 0, DIST_INFO_LEN, NULL,
0, 0, 10);
    if (rc != SUCCEED)
        HandleErrorDBC(o_hdbc3);

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

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

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

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

```

```

        rc = bcp_sendrow(o_hdbc3);
        if (rc != SUCCEED)
            HandleErrorDBC(o_hdbc3);

        order_line_rows_loaded++;
        CheckForCommit(o_hdbc3, o_hstmt3,
order_line_rows_loaded, "order_line", &order_line_time_start->time_start);
    }

    // rcint = bcp_batch(o_hdbc3);
    // if (rcint < 0)
    //     HandleErrorDBC(o_hdbc3);

    if ((o_w_id == aptr->num_warehouses) && (o_d_id == 10))
    {
        rcint = bcp_done(o_hdbc3);
        if (rcint < 0)
            HandleErrorDBC(o_hdbc3);

        SQLFreeStmt(o_hstmt3, SQL_DROP);
        SQLDisconnect(o_hdbc3);
        SQLFreeConnect(o_hdbc3);

        // if build index after load...
        if ((aptr->build_index == 1) && (aptr->index_order == 0))
            BuildIndex("idxodlcl1");
    }
}

//=====
//
// 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,
                   int rows_loaded,
                   char *table_name,
                   long *time_start)
{
    long    time_end, time_diff;
    // DBINT    rcint;

    if ( !(rows_loaded % aptr->batch) )
    {
        // rcint = bcp_batch(hdbc);
        // if (rcint < 0)
        //     HandleErrorDBC(hdbc);

        time_end = (TimeNow() / MILLI);
        time_diff = time_end - *time_start;

        printf("-> Loaded %ld rows into %s in %ld sec - Total = %d
(%0.2f rps)\n",
              aptr->batch,
              table_name,
              time_diff,
              rows_loaded,
              (float) aptr->batch / (time_diff ? time_diff
: 1L));

        *time_start = time_end;
    }
    return;
}

//=====
//
// Function    : 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)
    HandleErrorDBC(i_hdbc1);

// Connection 2

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

```

```

    rc = SQLSetConnectOption (w_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != 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)
        HandleErrorDBC(w_hdbc1);

    // Connection 3

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

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

    rc = SQLDriverConnect ( c_hdbc1,
                            NULL,
                            (SQLCHAR*)&szDriverString[0] ,
                            SQL_NTS,
                            (SQLCHAR*)&szDriverStringOut[0],
                            sizeof(szDriverStringOut),
                            &cbDriverStringOut,
                            SQL_DRIVER_NOPROMPT
);
    if (rc != SUCCEED)
        HandleErrorDBC(c_hdbc1);

    // Connection 4

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

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

    // Connection 5

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

    rc = SQLSetConnectOption (o_hdbc1, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != 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)
        HandleErrorDBC(o_hdbc1);

    // Connection 6

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

    rc = SQLSetConnectOption (o_hdbc2, SQL_PACKET_SIZE, aptr-
>pack_size);
    if (rc != 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)
    HandleErrorDBC(o_hdbc2);

// Connection 7

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

rc = SQLSetConnectOption (o_hdbc3, SQL_PACKET_SIZE, aptr-
>pack_size);
if (rc != 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)
    HandleErrorDBC(o_hdbc3);
}

//=====
//
// Function name: BuildIndex
//
//=====

void BuildIndex(char *index_script)
{
    char cmd[256];
    WaitForSingleObject( hIndexMutex, INFINITE );
    printf("Starting index creation: %s\n",index_script);

    sprintf(cmd, "isql -S%s -U%s -P%s -e -i%s\\%s.sql > logs\\%s.log",
            aptr->server,
            aptr->user,
            aptr->password,

```

```

        aptr->index_script_path,
        index_script,
        index_script);

    system(cmd);

    printf("Finished index creation: %s\n",index_script);
    Sleep(5000);
    ReleaseMutex( hIndexMutex);
}

void HandleErrorDBC (SQLHDBC hdbc1)
{
    SQLCHAR        SqlState[6], Msg[SQL_MAX_MESSAGE_LENGTH];
    SQLINTEGER     NativeError;
    SQLSMALLINT   i, MsgLen;
    SQLRETURN      rc2;
    char           timebuf[128];
    char           datebuf[128];
    FILE           *fp1;

    i = 1;
    while (( rc2 = SQLGetDiagRec(SQL_HANDLE_DBC , hdbc1, i, SqlState ,
&NativeError,
                                Msg, sizeof(Msg) , &MsgLen )) !=
SQL_NO_DATA )
    {
        sprintf( szLastError , "%s" , Msg );

        _strtime(timebuf);
        _strdate(datebuf);

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

        fp1 = fopen("logs\\tpccldr.err","w");
        if (fp1 == NULL)
            printf("ERROR: Unable to open errorlog file.\n");
        else
        {
            fprintf(fp1, "[%s : %s] %s\n" , datebuf, timebuf,
szLastError);
            fclose(fp1);
        }

        i++;
    }
}

void HandleErrorSTMT (HSTMT hstmt1)
{
    SQLCHAR        SqlState[6], Msg[SQL_MAX_MESSAGE_LENGTH];
    SQLINTEGER     NativeError;
    SQLSMALLINT   i, MsgLen;
    SQLRETURN      rc2;
    char           timebuf[128];

```

```

char          datebuf[128];
FILE          *fp1;

i = 1;
while (( rc2 = SQLGetDiagRec(SQL_HANDLE_STMT , hstmt1, i, SqlState
, &NativeError,
                                Msg, sizeof(Msg) , &MsgLen )) !=
SQL_NO_DATA )
{
    sprintf( szLastError , "%s" , Msg );

    _strtime(timebuf);
    _strdate(datebuf);

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

    fp1 = fopen("logs\\tpccldr.err","w");
    if (fp1 == NULL)
        printf("ERROR: Unable to open errorlog file.\n");
    else
    {
        fprintf(fp1, "[%s : %s] %s\n" , datebuf, timebuf,
szLastError);
        fclose(fp1);
    }
    i++;
}

void FormatDate ( char* szTimeCOutput )
{
    struct tm when;
    time_t now;

    time( &now );
    when = *localtime( &now );

    mktime( &when );

    // odbc datetime format
    strftime( szTimeCOutput , 30 , "%Y-%m-%d %H:%M:%S.000" , &when );

    return;
}

//=====
//
// Function   : CheckDataBase
//
//=====

void CheckDataBase()
{
    RETCODE          rc;

```

```

char          szDriverString[300];
char          szDriverStringOut[1024];
char          TablesBitMap[9] = {"000000000"};
int           i, ExitFlag;

SQLSMALLINT   cbDriverStringOut;
SQLCHAR       TabName[10];
SQLINTEGER    TabNameInd, TabCount, TabCountInd;

ExitFlag = 0;

SQLAllocHandle(SQL_HANDLE_ENV, SQL_NULL_HANDLE, &henv );

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

SQLAllocHandle(SQL_HANDLE_DBC, henv , &v_hdbc);

SQLSetConnectAttr(v_hdbc, SQL_COPT_SS_BCP, (void *)SQL_BCP_ON,
SQL_IS_INTEGER );

// Open connection to SQL Server

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

rc = SQLSetConnectAttr( v_hdbc, SQL_ATTR_PACKET_SIZE,
(SQLPOINTER)aptr->pack_size, SQL_IS_UINTEGER );
if (rc != SQL_SUCCESS)
    HandleErrorDBC(v_hdbc);

rc = SQLDriverConnect ( v_hdbc,
                                NULL,
                                (SQLCHAR*)&szDriverString[0]
                                ,
                                SQL_NTS,
                                (SQLCHAR*)&szDriverStringOut[0],
                                sizeof(szDriverStringOut),
                                &cbDriverStringOut,
                                SQL_DRIVER_NOPROMPT );

// if the rc is SQL_ERROR, the the TPCC database probably does not
exist
if (rc == SQL_ERROR)
{
    printf("The database TPCC does not appear to exist!\n");
    printf("\nCheck LOGS\\ directory for database creation
errors.\n");

    // cleanup database connections and handles
    SQLFreeHandle(SQL_HANDLE_STMT, v_hstmt);
    SQLDisconnect(v_hdbc);
    SQLFreeHandle(SQL_HANDLE_DBC, v_hdbc);

```

```

        // since there is not a database, exit back to SETUP.CMD
        exit(1);
    }

    if ( SQLAllocHandle(SQL_HANDLE_STMT, v_hdbc , &v_hstmt) !=
SQL_SUCCESS )
        HandleErrorDBC(v_hdbc);

    if ( SQLBindCol(v_hstmt, 1, SQL_C_ULONG, &TabCount, 0,
&TabCountInd) != SQL_SUCCESS )
        HandleErrorSTMT(v_hstmt);

    // count the number of user tables from sysobjects
    rc = SQLExecDirect(v_hstmt, "select count(*) from sysobjects where
xtype = '\U\'", SQL_NTS);
    if ((rc != SQL_SUCCESS) && (rc != SQL_SUCCESS_WITH_INFO))
        HandleErrorSTMT(v_hstmt);

    if ( SQLFetch(v_hstmt) != SQL_SUCCESS )
        HandleErrorSTMT(v_hstmt);

    // if the number of tables is less than 9, select all the user
tables in TPCC
    if (TabCount != 9)
    {
        SQLFreeHandle(SQL_HANDLE_STMT, v_hstmt);

        SQLAllocHandle(SQL_HANDLE_STMT, v_hdbc , &v_hstmt);

        if ( SQLBindCol(v_hstmt, 1, SQL_C_CHAR, &TabName,
sizeof(TabName), &TabNameInd) != SQL_SUCCESS )
            HandleErrorSTMT(v_hstmt);

        // select the list of user tables into a result set
        rc = SQLExecDirect(v_hstmt, "select * from sysobjects where
xtype = '\U\'", SQL_NTS);
        if ((rc != SQL_SUCCESS) && (rc != SQL_SUCCESS_WITH_INFO))
            HandleErrorSTMT(v_hstmt);

        // go through the result set and set the bitmap for each
found table
        // set the bitmap to '1' if the table name is found
        while ((rc = SQLFetch(v_hstmt)) != SQL_NO_DATA)
        {
            switch( TabName[0] )
            {
                case 'w':
                    TablesBitMap[0] = '1';
                    break;
                case 'd':
                    TablesBitMap[1] = '1';
                    break;
                case 'c':
                    TablesBitMap[2] = '1';
                    break;
                case 'h':
                    TablesBitMap[3] = '1';
                    break;
                case 'n':
                    TablesBitMap[4] = '1';

```

```

                    break;
                case 'o':
                    if (TabName[5] = 's')
                        TablesBitMap[5] = '1';
                    if (TabName[5] = '_')
                        TablesBitMap[6] = '1';
                    break;
                case 'i':
                    TablesBitMap[7] = '1';
                    break;
                case 's':
                    TablesBitMap[8] = '1';
                    break;
            }
        }

        // a '0' ExitFlag means do NOT exit the loader early, a '1'
means exit the loader early
        ExitFlag = 0;

        // iterate through the bitmap to display which table(s) is
actually missing
        for (i = 0; i <= 8; i++)
        {
            switch(i)
            {
                case 0:
                    if (TablesBitMap[i] == '0')
                    {
                        printf("The Warehouse table is
missing or damaged.\n");
                        ExitFlag = 1;
                    }
                    break;
                case 1:
                    if (TablesBitMap[i] == '0')
                    {
                        printf("The District table is
missing or damaged.\n");
                        ExitFlag = 1;
                    }
                    break;
                case 2:
                    if (TablesBitMap[i] == '0')
                    {
                        printf("The Customer table is
missing or damaged.\n");
                        ExitFlag = 1;
                    }
                    break;
                case 3:
                    if (TablesBitMap[i] == '0')
                    {
                        printf("The History table is missing
or damaged.\n");
                        ExitFlag = 1;
                    }
                    break;
                case 4:
                    if (TablesBitMap[i] == '0')

```



```

missing or damaged.\n");
        printf("The New_Order table is
        ExitFlag = 1;
    }
    break;
case 5:
    if (TablesBitMap[i] == '0')
    {
        printf("The Orders table is missing
        ExitFlag = 1;
    }
    break;
case 6:
    if (TablesBitMap[i] == '0')
    {
        printf("The Order_Line table is
        ExitFlag = 1;
    }
    break;
case 7:
    if (TablesBitMap[i] == '0')
    {
        printf("The Item table is missing or
        ExitFlag = 1;
    }
    break;
case 8:
    if (TablesBitMap[i] == '0')
    {
        printf("The Stock table is missing
        ExitFlag = 1;
    }
    break;
}
}
// if one or more tables are missing, display message and
exit the loader
if (ExitFlag = 1)
{
    printf("\nExiting TPC-C Loader!\n");
    printf("\nCheck LOGS\\ directory for database\n");
    printf("or table creation errors.\n");

    // cleanup database connections and handles
    SQLFreeHandle(SQL_HANDLE_STMT, v_hstmt);
    SQLDisconnect(v_hdbc);
    SQLFreeHandle(SQL_HANDLE_DBC, v_hdbc);

    exit(1);
}

// cleanup database connections and handles
SQLFreeHandle(SQL_HANDLE_STMT, v_hstmt);
SQLDisconnect(v_hdbc);
SQLFreeHandle(SQL_HANDLE_DBC, v_hdbc);
return;
}

```


Appendix C - Tunable Parameters

Microsoft SQL Server Startup Parameters

```
sqlservr -c -g250 -T3502 -x
```

Where:

- -c Start SQL Server independently of the Service Control Manager
- -g250 Specifies the amount of virtual address space, in MB, SQL Server will leave available for memory allocations, excluding the buffer pool and thread stacks, such as dynamically-loaded DLLs, extended procedure calls, etc. If this option is not specified, SQL Server will use a value that is suitable for a wide range of runtime environments. Use of this option may be appropriate in 2GB (3GB Enterprise Edition) configurations in which the memory usage requirements of SQL Server are atypical and the virtual address space of the SQL Server process is totally in use. Incorrect use of this option can lead to conditions under which SQL Server may not start or may encounter runtime errors.
- -T3502 Writes a message to the SQL Server Errorlog showing the beginning and ending time of each checkpoint
- -x Disables the keeping of CPU time and cache hit ratio statistics

SQL Server Stack Size

The default stack size for Microsoft SQL Server 2000 was changed using the EDITBIN utility. The EDITBIN utility ships with Microsoft Visual C++ V6.0. The command used to change the stack size is:

```
editbin /S: 196608 sqlservr.exe
```

This command is fully documented as an article in the Microsoft Knowledge Base on the Microsoft Web Site at www.Microsoft.com/support.

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="Microsoft Windows .NET Server
2003, Datacenter Edition" /fastdetect /hb=0 /pae /clstr=f7f6f5f4f3f2f1c0
```

The /pae switch was added to the boot.ini file to cause the OS to support more than 4GB of physical memory.

The /clstr= f7f6f5f4f3f2f1c0 switch was added to bind interrupts from an IO module (DIB) to a specific 4-processor group.

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 2000 could use large amounts of physical memory.

Microsoft SQL Server Configuration Parameters

```
1> 2> 3> 4> 5> 6> 7> 8> 9> 10> 11>
-- File:          VERSION.SQL
--               Microsoft TPC-C Benchmark Kit Ver. 4.21
--               Copyright Microsoft, 1999, 2000
-- Purpose:       Returns SQL Server version string
```

```
print " "
select convert(char(30), getdate(),9)
print " "
```

```
-----
Nov 30 2002 12:30:42:577PM
```

```
(1 row affected)
```

```
1> 2> 3>
select @@version
```

```
-----
-----
-----
Microsoft SQL Server 2000 - 8.00.731 (Intel X86)
Nov 27 2002 14:27:19
Cop
yright (c) 1988-2002 Microsoft Corporation
Enterprise Edition on Windo
ws NT 5.2 (Build 3694: )
```

(1 row affected)

```
1> 2>
1> 2> 3> 4> 5> 6> 7> 8> 9> 10>
-- File: CONFIG.SQL
-- Microsoft TPC-C Benchmark Kit Ver. 4.21
-- Copyright Microsoft, 1999, 2000
-- Purpose: Collects SQL Server configuration parameters
```

```
print " "
select convert(char(30), getdate(),9)
print " "
```

```
-----
Nov 30 2002 12:30:44:653PM
```

(1 row affected)

```
1> 2> 3> DBCC execution completed. If DBCC printed error messages, contact
your system administrator.
Configuration option 'show advanced options' changed from 1 to 1. Run the
RECONFIGURE statement to install.
```

```
sp_configure "show advanced",1
1> 2> reconfigure with override
1> 2> sp_configure
name
minimum maximum config_value run_value
-----
affinity mask -
2147483648 2147483647 -1 -1
allow updates
0 1 0 0
awe enabled
0 1 1 1
c2 audit mode
0 1 0 0
```

```
cost threshold for parallelism
0 32767 5 5
Cross DB Ownership Chaining
0 1 0 0
cursor threshold
-1 2147483647 -1 -1
default full-text language
0 2147483647 1033 1033
default language
0 9999 0 0
fill factor (%)
0 100 0 0
index create memory (KB)
704 2147483647 0 0
lightweight pooling
0 1 1 1
locks
5000 2147483647 0 0
max degree of parallelism
0 32 1 1
max server memory (MB)
4 2147483647 63300 63300
max text repl size (B)
0 2147483647 65536 65536
max worker threads
32 32767 912 912
media retention
0 365 0 0
min memory per query (KB)
512 2147483647 512 512
min server memory (MB)
0 2147483647 0 0
nested triggers
0 1 0 0
network packet size (B)
512 65536 4096 4096
open objects
0 2147483647 0 0
priority boost
0 1 1 1
query governor cost limit
0 2147483647 0 0
query wait (s)
-1 2147483647 -1 -1
recovery interval (min)
0 32767 119 119
remote access
0 1 0 0
remote login timeout (s)
0 2147483647 20 20
remote proc trans
0 1 0 0
remote query timeout (s)
0 2147483647 600 600
scan for startup procs
0 1 0 0
set working set size
0 1 0 0
```

```

show advanced options
0      1      1      1
two digit year cutoff
1753   9999   2049   2049
user connections
0      32767   0      0
user options
0      32767   0      0
1>

```

ESM7900 Storage Configuration Information

Log and Database DPE-Cache Configuration

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.3 getcache
SP Read Cache State      Disabled
SP Write Cache State     Enabled
Cache Page size:        16
Write Cache Mirrored:   YES
Low Watermark:          15
High Watermark:         85
SPA Cache pages:        46998
SPB Cache pages:        0
Unassigned Cache Pages: 0
Read Hit Ratio:         0
Write Hit Ratio:        0
Prct Dirty Cache Pages = 0
Prct Cache Pages Owned = 0
SPA Read Cache State     Disabled
SPB Read Cache State     Disabled
SPA Write Cache State    Enabled
SPB Write Cache State    Enabled
System Buffer (spA):     22 MB
System Buffer (spB):     22 MB
SPS Test Day:           Saturday
SPS Test Time:          17:00
SPA Physical Memory Size = 904
SPB Physical Memory Size = 904
Physical memory size of Front-End = Switch not supported
Physical memory size of Back-End = Switch not supported
SPA Free Memory Size = 0
SPB Free Memory Size = 0
Free Memory Size of Front-End = Switch not supported
Free Memory Size of Back-End = Switch not supported
SPA Read Cache Size = 0
SPB Read Cache Size = 0
SPA Write Cache Size = 882
SPB Write Cache Size = 882
SPA Optimized Raid 3 Memory Size = 0
SPB Optimized Raid 3 Memory Size = 0

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.4 getcache
SP Read Cache State      Disabled

```

```

SP Write Cache State     Enabled
Cache Page size:        16
Write Cache Mirrored:   YES
Low Watermark:          15
High Watermark:         85
SPA Cache pages:        0
SPB Cache pages:        8294
Unassigned Cache Pages: 0
Read Hit Ratio:         0
Write Hit Ratio:        0
Prct Dirty Cache Pages = 0
Prct Cache Pages Owned = 0
SPA Read Cache State     Disabled
SPB Read Cache State     Disabled
SPA Write Cache State    Enabled
SPB Write Cache State    Enabled
System Buffer (spA):     22 MB
System Buffer (spB):     22 MB
SPS Test Day:           Saturday
SPS Test Time:          17:00
SPA Physical Memory Size = 904
SPB Physical Memory Size = 904
Physical memory size of Front-End = Switch not supported
Physical memory size of Back-End = Switch not supported
SPA Free Memory Size = 0
SPB Free Memory Size = 0
Free Memory Size of Front-End = Switch not supported
Free Memory Size of Back-End = Switch not supported
SPA Read Cache Size = 0
SPB Read Cache Size = 0
SPA Write Cache Size = 882
SPB Write Cache Size = 882
SPA Optimized Raid 3 Memory Size = 0
SPB Optimized Raid 3 Memory Size = 0

```

Database DPE-Cache (common to 9 DPEs)

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getcache
SP Read Cache State      Disabled
SP Write Cache State     Disabled
Cache Page size:        16
Write Cache Mirrored:   YES
Low Watermark:          10
High Watermark:         90
SPA Cache pages:        0
SPB Cache pages:        0
Unassigned Cache Pages: 0
Read Hit Ratio:         0
Write Hit Ratio:        0
Prct Dirty Cache Pages = 0
Prct Cache Pages Owned = 0
SPA Read Cache State     Disabled
SPB Read Cache State     Disabled
SPA Write Cache State    Disabled
SPB Write Cache State    Disabled
System Buffer (spA):     22 MB
System Buffer (spB):     22 MB

```

```

SPS Test Day:                Saturday
SPS Test Time:               17:00
SPA Physical Memory Size =   904
SPB Physical Memory Size =   904
Physical memory size of Front-End = Switch not supported
Physical memory size of Back-End = Switch not supported
SPA Free Memory Size =       882
SPB Free Memory Size =       882
Free Memory Size of Front-End = Switch not supported
Free Memory Size of Back-End = Switch not supported
SPA Read Cache Size =        0
SPB Read Cache Size =        0
SPA Write Cache Size =        0
SPB Write Cache Size =        0
SPA Optimized Raid 3 Memory Size = 0
SPB Optimized Raid 3 Memory Size = 0

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.6 getcache
SP Read Cache State          Disabled
SP Write Cache State         Disabled
Cache Page size:             16
Write Cache Mirrored:       YES
Low Watermark:               10
High Watermark:              90
SPA Cache pages:             0
SPB Cache pages:             0
Unassigned Cache Pages:     0
Read Hit Ratio:              0
Write Hit Ratio:             0
Prct Dirty Cache Pages =    0
Prct Cache Pages Owned =    0
SPA Read Cache State         Disabled
SPB Read Cache State         Disabled
SPA Write Cache State        Disabled
SPB Write Cache State        Disabled
System Buffer (spA):          22 MB
System Buffer (spB):          22 MB
SPS Test Day:                Saturday
SPS Test Time:               17:00
SPA Physical Memory Size =   904
SPB Physical Memory Size =   904
Physical memory size of Front-End = Switch not supported
Physical memory size of Back-End = Switch not supported
SPA Free Memory Size =       882
SPB Free Memory Size =       882
Free Memory Size of Front-End = Switch not supported
Free Memory Size of Back-End = Switch not supported
SPA Read Cache Size =        0
SPB Read Cache Size =        0
SPA Write Cache Size =        0
SPB Write Cache Size =        0
SPA Optimized Raid 3 Memory Size = 0
SPB Optimized Raid 3 Memory Size = 0

```

Log and Database DPE LUN Configurations

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.3 getlun 0
Statistics logging is disabled.
Certain fields are not printed if statistics
logging is not enabled.
Prefetch size (blocks) =      0
Prefetch multiplier =        0
Segment size (blocks) =      0
Segment multiplier =         0
Maximum prefetch (blocks) =   512
Prefetch Disable Size (blocks) = 129
Prefetch idle count =        40

Prefetching: NO
Prefetched data retained      YES

Read cache configured according to
specified parameters.

Total Hard Errors:           0
Total Soft Errors:           0
Total Queue Length:         0
Name                          Flare LUN 0
Minimum latency reads N/A

RAID Type:                   RAID1/0
RAIDGroup ID:                 0
State:                        Bound
Stripe Crossing:              0
Element Size:                 256
Current owner:                SP A
Auto-trespass:                DISABLED
Auto-assign:                  DISABLED
Write cache:                   ENABLED
Read cache:                   DISABLED
Idle Threshold:               0
Idle Delay Time:              20
Write Aside Size:             1023
Default Owner:                SP A
Rebuild Priority:              ASAP
Verify Priority:               ASAP
Prct Reads Forced Flushed:    0
Prct Writes Forced Flushed:   0
Prct Rebuilt:                 100
Prct Bound:                   100
LUN Capacity(Megabytes):      268270
LUN Capacity(Blocks):         549416960
UID:
60:06:01:60:5D:8D:00:00:60:D4:7B:C3:FC:F7:D6:11
Bus 0 Enclosure 0 Disk 0 Queue Length: 0
Bus 0 Enclosure 0 Disk 6 Queue Length: 0
Bus 1 Enclosure 0 Disk 0 Queue Length: 0
Bus 1 Enclosure 0 Disk 6 Queue Length: 0
Bus 0 Enclosure 0 Disk 1 Queue Length: 0
Bus 0 Enclosure 0 Disk 7 Queue Length: 0
Bus 1 Enclosure 0 Disk 1 Queue Length: 0

```

```

Bus 1 Enclosure 0 Disk 7 Queue Length: 0
Bus 0 Enclosure 0 Disk 4 Queue Length: 0
Bus 0 Enclosure 0 Disk 8 Queue Length: 0
Bus 1 Enclosure 0 Disk 4 Queue Length: 0
Bus 1 Enclosure 0 Disk 8 Queue Length: 0
Bus 0 Enclosure 0 Disk 5 Queue Length: 0
Bus 0 Enclosure 0 Disk 9 Queue Length: 0
Bus 1 Enclosure 0 Disk 5 Queue Length: 0
Bus 1 Enclosure 0 Disk 9 Queue Length: 0
Bus 0 Enclosure 0 Disk 0 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 6 Hard Read Errors: 0
Bus 1 Enclosure 0 Disk 0 Hard Read Errors: 0
Bus 1 Enclosure 0 Disk 6 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 1 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 7 Hard Read Errors: 0
Bus 1 Enclosure 0 Disk 1 Hard Read Errors: 0
Bus 1 Enclosure 0 Disk 7 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 4 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 8 Hard Read Errors: 0
Bus 1 Enclosure 0 Disk 4 Hard Read Errors: 0
Bus 1 Enclosure 0 Disk 8 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 5 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 9 Hard Read Errors: 0
Bus 1 Enclosure 0 Disk 5 Hard Read Errors: 0
Bus 1 Enclosure 0 Disk 9 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 0 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 6 Hard Write Errors: 0
Bus 1 Enclosure 0 Disk 0 Hard Write Errors: 0
Bus 1 Enclosure 0 Disk 6 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 1 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 7 Hard Write Errors: 0
Bus 1 Enclosure 0 Disk 1 Hard Write Errors: 0
Bus 1 Enclosure 0 Disk 7 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 4 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 8 Hard Write Errors: 0
Bus 1 Enclosure 0 Disk 4 Hard Write Errors: 0
Bus 1 Enclosure 0 Disk 8 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 5 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 9 Hard Write Errors: 0
Bus 1 Enclosure 0 Disk 5 Hard Write Errors: 0
Bus 1 Enclosure 0 Disk 9 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 0 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 6 Soft Read Errors: 0
Bus 1 Enclosure 0 Disk 0 Soft Read Errors: 0
Bus 1 Enclosure 0 Disk 6 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 1 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 7 Soft Read Errors: 0
Bus 1 Enclosure 0 Disk 7 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 4 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 8 Soft Read Errors: 0
Bus 1 Enclosure 0 Disk 4 Soft Read Errors: 0
Bus 1 Enclosure 0 Disk 8 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 5 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 9 Soft Read Errors: 0
Bus 1 Enclosure 0 Disk 5 Soft Read Errors: 0
Bus 1 Enclosure 0 Disk 9 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 0 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 6 Soft Write Errors: 0

```

```

Bus 1 Enclosure 0 Disk 0 Soft Write Errors: 0
Bus 1 Enclosure 0 Disk 6 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 1 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 7 Soft Write Errors: 0
Bus 1 Enclosure 0 Disk 1 Soft Write Errors: 0
Bus 1 Enclosure 0 Disk 7 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 4 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 8 Soft Write Errors: 0
Bus 1 Enclosure 0 Disk 4 Soft Write Errors: 0
Bus 1 Enclosure 0 Disk 8 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 5 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 9 Soft Write Errors: 0
Bus 1 Enclosure 0 Disk 5 Soft Write Errors: 0
Bus 1 Enclosure 0 Disk 9 Soft Write Errors: 0

```

```
Bus 0 Enclosure 0 Disk 0 Enabled
```

```
Bus 0 Enclosure 0 Disk 6 Enabled
```

```
Bus 1 Enclosure 0 Disk 0 Enabled
```

```
Bus 1 Enclosure 0 Disk 6 Enabled
```

```
Bus 0 Enclosure 0 Disk 1 Enabled
```

```
Bus 0 Enclosure 0 Disk 7 Enabled
```

```
Bus 1 Enclosure 0 Disk 1 Enabled
```

```
Bus 1 Enclosure 0 Disk 7 Enabled
```

```
Bus 0 Enclosure 0 Disk 4 Enabled
```

```
Bus 0 Enclosure 0 Disk 8 Enabled
```

```
Bus 1 Enclosure 0 Disk 4 Enabled
```

```
Bus 1 Enclosure 0 Disk 8 Enabled
```

```
Bus 0 Enclosure 0 Disk 5 Enabled
```

```
Bus 0 Enclosure 0 Disk 9 Enabled
```

```
Bus 1 Enclosure 0 Disk 5 Enabled
```

```
Bus 1 Enclosure 0 Disk 9 Enabled
```

```
Is Private: NO
```

```
Snapshots List: None
```

```
MirrorView Name if any: Not Mirrored
```

```
A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.3 getlun 1
Statistics logging is disabled.
```

```
Certain fields are not printed if statistics
logging is not enabled.
```

```
Prefetch size (blocks) = 0
```

```
Prefetch multiplier = 0
```

```
Segment size (blocks) = 0
```

```
Segment multiplier = 0
```

Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to
specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 1
Minimum latency reads N/A

RAID Type: RAID1/0
RAIDGroup ID: 1
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP A
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: ENABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: ASAP
Verify Priority: ASAP
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 268270
LUN Capacity(Blocks): 549416960
UID:

60:06:01:60:5D:8D:00:00:61:D4:7B:C3:FC:F7:D6:11

Bus 0 Enclosure 1 Disk 0	Queue Length:	0
Bus 0 Enclosure 1 Disk 6	Queue Length:	0
Bus 1 Enclosure 1 Disk 0	Queue Length:	0
Bus 1 Enclosure 1 Disk 6	Queue Length:	0
Bus 0 Enclosure 1 Disk 1	Queue Length:	0
Bus 0 Enclosure 1 Disk 7	Queue Length:	0
Bus 1 Enclosure 1 Disk 1	Queue Length:	0
Bus 1 Enclosure 1 Disk 7	Queue Length:	0
Bus 0 Enclosure 1 Disk 4	Queue Length:	0
Bus 0 Enclosure 1 Disk 8	Queue Length:	0
Bus 1 Enclosure 1 Disk 4	Queue Length:	0
Bus 1 Enclosure 1 Disk 8	Queue Length:	0
Bus 0 Enclosure 1 Disk 5	Queue Length:	0
Bus 0 Enclosure 1 Disk 9	Queue Length:	0
Bus 1 Enclosure 1 Disk 5	Queue Length:	0
Bus 1 Enclosure 1 Disk 9	Queue Length:	0
Bus 0 Enclosure 1 Disk 0	Hard Read Errors:	0
Bus 0 Enclosure 1 Disk 6	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 0	Hard Read Errors:	0

Bus 1 Enclosure 1 Disk 6	Hard Read Errors:	0
Bus 0 Enclosure 1 Disk 1	Hard Read Errors:	0
Bus 0 Enclosure 1 Disk 7	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 1	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 7	Hard Read Errors:	0
Bus 0 Enclosure 1 Disk 4	Hard Read Errors:	0
Bus 0 Enclosure 1 Disk 8	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 4	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 8	Hard Read Errors:	0
Bus 0 Enclosure 1 Disk 5	Hard Read Errors:	0
Bus 0 Enclosure 1 Disk 9	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 5	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 9	Hard Read Errors:	0
Bus 0 Enclosure 1 Disk 0	Hard Write Errors:	0
Bus 0 Enclosure 1 Disk 6	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 0	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 6	Hard Write Errors:	0
Bus 0 Enclosure 1 Disk 1	Hard Write Errors:	0
Bus 0 Enclosure 1 Disk 7	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 1	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 7	Hard Write Errors:	0
Bus 0 Enclosure 1 Disk 4	Hard Write Errors:	0
Bus 0 Enclosure 1 Disk 8	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 4	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 8	Hard Write Errors:	0
Bus 0 Enclosure 1 Disk 5	Hard Write Errors:	0
Bus 0 Enclosure 1 Disk 9	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 5	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 9	Hard Write Errors:	0
Bus 0 Enclosure 1 Disk 0	Soft Read Errors:	0
Bus 0 Enclosure 1 Disk 6	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 0	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 6	Soft Read Errors:	0
Bus 0 Enclosure 1 Disk 1	Soft Read Errors:	0
Bus 0 Enclosure 1 Disk 7	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 1	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 7	Soft Read Errors:	0
Bus 0 Enclosure 1 Disk 4	Soft Read Errors:	0
Bus 0 Enclosure 1 Disk 8	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 4	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 8	Soft Read Errors:	0
Bus 0 Enclosure 1 Disk 5	Soft Read Errors:	0
Bus 0 Enclosure 1 Disk 9	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 5	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 9	Soft Read Errors:	0
Bus 0 Enclosure 1 Disk 0	Soft Write Errors:	0
Bus 0 Enclosure 1 Disk 6	Soft Write Errors:	0
Bus 1 Enclosure 1 Disk 0	Soft Write Errors:	0
Bus 1 Enclosure 1 Disk 6	Soft Write Errors:	0
Bus 0 Enclosure 1 Disk 1	Soft Write Errors:	0
Bus 0 Enclosure 1 Disk 7	Soft Write Errors:	0
Bus 1 Enclosure 1 Disk 1	Soft Write Errors:	0
Bus 1 Enclosure 1 Disk 7	Soft Write Errors:	0
Bus 0 Enclosure 1 Disk 4	Soft Write Errors:	0
Bus 0 Enclosure 1 Disk 8	Soft Write Errors:	0
Bus 1 Enclosure 1 Disk 4	Soft Write Errors:	0
Bus 1 Enclosure 1 Disk 8	Soft Write Errors:	0
Bus 0 Enclosure 1 Disk 5	Soft Write Errors:	0
Bus 0 Enclosure 1 Disk 9	Soft Write Errors:	0


```

Bus 1 Enclosure 1 Disk 5 Soft Write Errors:      0
Bus 1 Enclosure 1 Disk 9 Soft Write Errors:      0

Bus 0 Enclosure 1 Disk 0 Enabled
Bus 0 Enclosure 1 Disk 6 Enabled
Bus 1 Enclosure 1 Disk 0 Enabled
Bus 1 Enclosure 1 Disk 6 Enabled
Bus 0 Enclosure 1 Disk 1 Enabled
Bus 0 Enclosure 1 Disk 7 Enabled
Bus 1 Enclosure 1 Disk 1 Enabled
Bus 1 Enclosure 1 Disk 7 Enabled
Bus 0 Enclosure 1 Disk 4 Enabled
Bus 0 Enclosure 1 Disk 8 Enabled
Bus 1 Enclosure 1 Disk 4 Enabled
Bus 1 Enclosure 1 Disk 8 Enabled
Bus 0 Enclosure 1 Disk 5 Enabled
Bus 0 Enclosure 1 Disk 9 Enabled
Bus 1 Enclosure 1 Disk 5 Enabled

Bus 1 Enclosure 1 Disk 9 Enabled
Is Private:                NO
Snapshots List:            None
MirrorView Name if any:    Not Mirrored

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.3 getlun 2
Statistics logging is disabled.

```

```

Certain fields are not printed if statistics
logging is not enabled.

```

```

Prefetch size (blocks) =      0
Prefetch multiplier =        0
Segment size (blocks) =      0
Segment multiplier =         0
Maximum prefetch (blocks) =   512
Prefetch Disable Size (blocks) = 129
Prefetch idle count =        40

```

```

Prefetching: NO
Prefetched data retained      YES

```

```

Read cache configured according to
specified parameters.

```

```

Total Hard Errors:      0
Total Soft Errors:      0

```

```

Total Queue Length:      0
Name                      Flare LUN 2
Minimum latency reads N/A

```

```

RAID Type:                RAID0
RAIDGroup ID:             2
State:                    Bound
Stripe Crossing:         0
Element Size:             256
Current owner:            SP B
Auto-trespass:           DISABLED
Auto-assign:              DISABLED
Write cache:              DISABLED
Read cache:               DISABLED
Idle Threshold:          0
Idle Delay Time:         20
Write Aside Size:        1023
Default Owner:           SP B
Rebuild Priority:         N/A
Verify Priority:          N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt:            100
Prct Bound:               100
LUN Capacity(Megabytes): 117208
LUN Capacity(Blocks):    240043776
UID:

```

```

60:06:01:6F:E3:8A:00:00:9E:E3:D2:81:75:FE:D6:11
Bus 0 Enclosure 2 Disk 0 Queue Length:      0
Bus 0 Enclosure 2 Disk 1 Queue Length:      0
Bus 0 Enclosure 2 Disk 2 Queue Length:      0
Bus 0 Enclosure 2 Disk 3 Queue Length:      0
Bus 0 Enclosure 2 Disk 4 Queue Length:      0
Bus 0 Enclosure 2 Disk 5 Queue Length:      0
Bus 0 Enclosure 2 Disk 6 Queue Length:      0
Bus 0 Enclosure 2 Disk 0 Hard Read Errors:  0
Bus 0 Enclosure 2 Disk 1 Hard Read Errors:  0
Bus 0 Enclosure 2 Disk 2 Hard Read Errors:  0
Bus 0 Enclosure 2 Disk 3 Hard Read Errors:  0
Bus 0 Enclosure 2 Disk 4 Hard Read Errors:  0
Bus 0 Enclosure 2 Disk 5 Hard Read Errors:  0
Bus 0 Enclosure 2 Disk 6 Hard Read Errors:  0
Bus 0 Enclosure 2 Disk 0 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 1 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 2 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 3 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 4 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 5 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 6 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 0 Soft Read Errors:  0
Bus 0 Enclosure 2 Disk 1 Soft Read Errors:  0
Bus 0 Enclosure 2 Disk 2 Soft Read Errors:  0
Bus 0 Enclosure 2 Disk 3 Soft Read Errors:  0
Bus 0 Enclosure 2 Disk 4 Soft Read Errors:  0
Bus 0 Enclosure 2 Disk 5 Soft Read Errors:  0
Bus 0 Enclosure 2 Disk 6 Soft Read Errors:  0
Bus 0 Enclosure 2 Disk 0 Soft Write Errors: 0
Bus 0 Enclosure 2 Disk 1 Soft Write Errors: 0
Bus 0 Enclosure 2 Disk 2 Soft Write Errors: 0

```

```

Bus 0 Enclosure 2 Disk 3 Soft Write Errors: 0
Bus 0 Enclosure 2 Disk 4 Soft Write Errors: 0
Bus 0 Enclosure 2 Disk 5 Soft Write Errors: 0
Bus 0 Enclosure 2 Disk 6 Soft Write Errors: 0

```

```
Bus 0 Enclosure 2 Disk 0 Enabled
```

```
Bus 0 Enclosure 2 Disk 1 Enabled
```

```
Bus 0 Enclosure 2 Disk 2 Enabled
```

```
Bus 0 Enclosure 2 Disk 3 Enabled
```

```
Bus 0 Enclosure 2 Disk 4 Enabled
```

```
Bus 0 Enclosure 2 Disk 5 Enabled
```

```
Bus 0 Enclosure 2 Disk 6 Enabled
```

```

Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.3 getlun 3
Statistics logging is disabled.

```

```

Certain fields are not printed if statistics
logging is not enabled.

```

```

Prefetch size (blocks) = 0
Prefetch multiplier = 0
Segment size (blocks) = 0
Segment multiplier = 0
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

```

```

Prefetching: NO
Prefetched data retained YES

```

```

Read cache configured according to
specified parameters.

```

```

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 3
Minimum latency reads N/A

```

```

RAID Type: RAID0
RAIDGroup ID: 3
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20

```

```

Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 117208
LUN Capacity(Blocks): 240043776

```

```

UID:
60:06:01:6F:E3:8A:00:00:9F:E3:D2:81:75:FE:D6:11

```

```

Bus 0 Enclosure 2 Disk 7 Queue Length: 0
Bus 0 Enclosure 2 Disk 8 Queue Length: 0
Bus 0 Enclosure 2 Disk 9 Queue Length: 0
Bus 0 Enclosure 3 Disk 0 Queue Length: 0
Bus 0 Enclosure 3 Disk 1 Queue Length: 0
Bus 0 Enclosure 3 Disk 2 Queue Length: 0
Bus 0 Enclosure 3 Disk 3 Queue Length: 0
Bus 0 Enclosure 2 Disk 7 Hard Read Errors: 0
Bus 0 Enclosure 2 Disk 8 Hard Read Errors: 0
Bus 0 Enclosure 2 Disk 9 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 0 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 1 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 2 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 3 Hard Read Errors: 0
Bus 0 Enclosure 2 Disk 7 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 8 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 9 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 0 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 1 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 2 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 3 Hard Write Errors: 0
Bus 0 Enclosure 2 Disk 7 Soft Read Errors: 0
Bus 0 Enclosure 2 Disk 8 Soft Read Errors: 0
Bus 0 Enclosure 2 Disk 9 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 0 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 1 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 2 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 3 Soft Read Errors: 0
Bus 0 Enclosure 2 Disk 7 Soft Write Errors: 0
Bus 0 Enclosure 2 Disk 8 Soft Write Errors: 0
Bus 0 Enclosure 2 Disk 9 Soft Write Errors: 0
Bus 0 Enclosure 3 Disk 0 Soft Write Errors: 0
Bus 0 Enclosure 3 Disk 1 Soft Write Errors: 0
Bus 0 Enclosure 3 Disk 2 Soft Write Errors: 0
Bus 0 Enclosure 3 Disk 3 Soft Write Errors: 0

```

```
Bus 0 Enclosure 2 Disk 7 Enabled
```

```
Bus 0 Enclosure 2 Disk 8 Enabled
```

```
Bus 0 Enclosure 2 Disk 9 Enabled
```

```
Bus 0 Enclosure 3 Disk 0 Enabled
```

```
Bus 0 Enclosure 3 Disk 1 Enabled
```

```
Bus 0 Enclosure 3 Disk 2 Enabled
```

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

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.3 getlun 4
Statistics logging is disabled.

Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) = 0
Prefetch multiplier = 0
Segment size (blocks) = 0
Segment multiplier = 0
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 4
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 4
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 117208
LUN Capacity(Blocks): 240043776
UID:

60:06:01:6F:E3:8A:00:00:A0:E3:D2:81:75:FE:D6:11
Bus 0 Enclosure 3 Disk 4 Queue Length: 0
Bus 0 Enclosure 3 Disk 5 Queue Length: 0
Bus 0 Enclosure 3 Disk 6 Queue Length: 0
Bus 0 Enclosure 3 Disk 7 Queue Length: 0

Bus 0 Enclosure 3 Disk 8 Queue Length: 0
Bus 0 Enclosure 3 Disk 9 Queue Length: 0
Bus 1 Enclosure 2 Disk 0 Queue Length: 0
Bus 0 Enclosure 3 Disk 4 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 5 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 6 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 7 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 8 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 9 Hard Read Errors: 0
Bus 1 Enclosure 2 Disk 0 Hard Read Errors: 0
Bus 0 Enclosure 3 Disk 4 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 5 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 6 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 7 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 8 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 9 Hard Write Errors: 0
Bus 1 Enclosure 2 Disk 0 Hard Write Errors: 0
Bus 0 Enclosure 3 Disk 4 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 5 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 6 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 7 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 8 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 9 Soft Read Errors: 0
Bus 1 Enclosure 2 Disk 0 Soft Read Errors: 0
Bus 0 Enclosure 3 Disk 4 Soft Write Errors: 0
Bus 0 Enclosure 3 Disk 5 Soft Write Errors: 0
Bus 0 Enclosure 3 Disk 6 Soft Write Errors: 0
Bus 0 Enclosure 3 Disk 7 Soft Write Errors: 0
Bus 0 Enclosure 3 Disk 8 Soft Write Errors: 0
Bus 0 Enclosure 3 Disk 9 Soft Write Errors: 0
Bus 1 Enclosure 2 Disk 0 Soft Write Errors: 0

Bus 0 Enclosure 3 Disk 4 Enabled
Bus 0 Enclosure 3 Disk 5 Enabled
Bus 0 Enclosure 3 Disk 6 Enabled
Bus 0 Enclosure 3 Disk 7 Enabled
Bus 0 Enclosure 3 Disk 8 Enabled
Bus 0 Enclosure 3 Disk 9 Enabled
Bus 1 Enclosure 2 Disk 0 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.3 getlun 5
Statistics logging is disabled.

Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) = 0
Prefetch multiplier = 0
Segment size (blocks) = 0
Segment multiplier = 0
Maximum prefetch (blocks) = 512

Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to
specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 5
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 5
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 117208
LUN Capacity(Blocks): 240043776
UID:
60:06:01:6F:E3:8A:00:00:A1:E3:D2:81:75:FE:D6:11

Bus 1 Enclosure 2 Disk 1	Queue Length:	0
Bus 1 Enclosure 2 Disk 2	Queue Length:	0
Bus 1 Enclosure 2 Disk 3	Queue Length:	0
Bus 1 Enclosure 2 Disk 4	Queue Length:	0
Bus 1 Enclosure 2 Disk 5	Queue Length:	0
Bus 1 Enclosure 2 Disk 6	Queue Length:	0
Bus 1 Enclosure 2 Disk 7	Queue Length:	0
Bus 1 Enclosure 2 Disk 1	Hard Read Errors:	0
Bus 1 Enclosure 2 Disk 2	Hard Read Errors:	0
Bus 1 Enclosure 2 Disk 3	Hard Read Errors:	0
Bus 1 Enclosure 2 Disk 4	Hard Read Errors:	0
Bus 1 Enclosure 2 Disk 5	Hard Read Errors:	0
Bus 1 Enclosure 2 Disk 6	Hard Read Errors:	0
Bus 1 Enclosure 2 Disk 7	Hard Read Errors:	0
Bus 1 Enclosure 2 Disk 1	Hard Write Errors:	0
Bus 1 Enclosure 2 Disk 2	Hard Write Errors:	0
Bus 1 Enclosure 2 Disk 3	Hard Write Errors:	0
Bus 1 Enclosure 2 Disk 4	Hard Write Errors:	0
Bus 1 Enclosure 2 Disk 5	Hard Write Errors:	0
Bus 1 Enclosure 2 Disk 6	Hard Write Errors:	0

Bus 1 Enclosure 2 Disk 7	Hard Write Errors:	0
Bus 1 Enclosure 2 Disk 1	Soft Read Errors:	0
Bus 1 Enclosure 2 Disk 2	Soft Read Errors:	0
Bus 1 Enclosure 2 Disk 3	Soft Read Errors:	0
Bus 1 Enclosure 2 Disk 4	Soft Read Errors:	0
Bus 1 Enclosure 2 Disk 5	Soft Read Errors:	0
Bus 1 Enclosure 2 Disk 6	Soft Read Errors:	0
Bus 1 Enclosure 2 Disk 7	Soft Read Errors:	0
Bus 1 Enclosure 2 Disk 1	Soft Write Errors:	0
Bus 1 Enclosure 2 Disk 2	Soft Write Errors:	0
Bus 1 Enclosure 2 Disk 3	Soft Write Errors:	0
Bus 1 Enclosure 2 Disk 4	Soft Write Errors:	0
Bus 1 Enclosure 2 Disk 5	Soft Write Errors:	0
Bus 1 Enclosure 2 Disk 6	Soft Write Errors:	0
Bus 1 Enclosure 2 Disk 7	Soft Write Errors:	0

Bus 1 Enclosure 2 Disk 1 Enabled

Bus 1 Enclosure 2 Disk 2 Enabled

Bus 1 Enclosure 2 Disk 3 Enabled

Bus 1 Enclosure 2 Disk 4 Enabled

Bus 1 Enclosure 2 Disk 5 Enabled

Bus 1 Enclosure 2 Disk 6 Enabled

Bus 1 Enclosure 2 Disk 7 Enabled

Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.3 getlun 6
Statistics logging is disabled.
Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) = 0
Prefetch multiplier = 0
Segment size (blocks) = 0
Segment multiplier = 0
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to
specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 6
Minimum latency reads N/A

RAID Type: RAID0

```

RAIDGroup ID: 6
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:

```

```

60:06:01:6F:E3:8A:00:00:A2:E3:D2:81:75:FE:D6:11
Bus 1 Enclosure 2 Disk 8 Queue Length: 0
Bus 1 Enclosure 2 Disk 9 Queue Length: 0
Bus 1 Enclosure 3 Disk 0 Queue Length: 0
Bus 1 Enclosure 3 Disk 1 Queue Length: 0
Bus 1 Enclosure 3 Disk 2 Queue Length: 0
Bus 1 Enclosure 3 Disk 3 Queue Length: 0
Bus 1 Enclosure 2 Disk 8 Hard Read Errors: 0
Bus 1 Enclosure 2 Disk 9 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 0 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 1 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 2 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 3 Hard Read Errors: 0
Bus 1 Enclosure 2 Disk 8 Hard Write Errors: 0
Bus 1 Enclosure 2 Disk 9 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 0 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 1 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 2 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 3 Hard Write Errors: 0
Bus 1 Enclosure 2 Disk 8 Soft Read Errors: 0
Bus 1 Enclosure 2 Disk 9 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 0 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 1 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 2 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 3 Soft Read Errors: 0
Bus 1 Enclosure 2 Disk 8 Soft Write Errors: 0
Bus 1 Enclosure 2 Disk 9 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 0 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 1 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 2 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 3 Soft Write Errors: 0

```

```

Bus 1 Enclosure 2 Disk 8 Enabled
Bus 1 Enclosure 2 Disk 9 Enabled
Bus 1 Enclosure 3 Disk 0 Enabled

```

```

Bus 1 Enclosure 3 Disk 1 Enabled
Bus 1 Enclosure 3 Disk 2 Enabled
Bus 1 Enclosure 3 Disk 3 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.3 getlun 7
Statistics logging is disabled.
Certain fields are not printed if statistics
logging is not enabled.
Prefetch size (blocks) = 0
Prefetch multiplier = 0
Segment size (blocks) = 0
Segment multiplier = 0
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

```

```

Prefetching: NO
Prefetched data retained YES
Read cache configured according to
specified parameters.
Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 7
Minimum latency reads N/A

```

```

RAID Type: RAID0
RAIDGroup ID: 7
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:
60:06:01:6F:E3:8A:00:00:A3:E3:D2:81:75:FE:D6:11

```

```

Bus 1 Enclosure 3 Disk 4 Queue Length: 0
Bus 1 Enclosure 3 Disk 5 Queue Length: 0
Bus 1 Enclosure 3 Disk 6 Queue Length: 0
Bus 1 Enclosure 3 Disk 7 Queue Length: 0
Bus 1 Enclosure 3 Disk 8 Queue Length: 0
Bus 1 Enclosure 3 Disk 9 Queue Length: 0
Bus 1 Enclosure 3 Disk 4 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 5 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 6 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 7 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 8 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 9 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 4 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 5 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 6 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 7 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 8 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 9 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 4 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 5 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 6 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 7 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 8 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 9 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 4 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 5 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 6 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 7 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 8 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 9 Soft Write Errors: 0

Bus 1 Enclosure 3 Disk 4 Enabled
Bus 1 Enclosure 3 Disk 5 Enabled
Bus 1 Enclosure 3 Disk 6 Enabled
Bus 1 Enclosure 3 Disk 7 Enabled
Bus 1 Enclosure 3 Disk 8 Enabled
Bus 1 Enclosure 3 Disk 9 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

Database DPE LUN Comfigurations (common to 9 DPEs)

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 0
Statistics logging is disabled.
Certain fields are not printed if statistics
logging is not enabled.
Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512

```

```

Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to
specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 0
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 0
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP A
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:
60:06:01:F4:E8:8B:00:00:DA:F0:D8:3A:FB:F7:D6:11
Bus 0 Enclosure 0 Disk 0 Queue Length: 0
Bus 0 Enclosure 0 Disk 1 Queue Length: 0
Bus 0 Enclosure 0 Disk 4 Queue Length: 0
Bus 0 Enclosure 0 Disk 5 Queue Length: 0
Bus 0 Enclosure 0 Disk 6 Queue Length: 0
Bus 0 Enclosure 0 Disk 7 Queue Length: 0
Bus 0 Enclosure 0 Disk 0 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 1 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 4 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 5 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 6 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 7 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 0 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 1 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 4 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 5 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 6 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 7 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 0 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 1 Soft Read Errors: 0

```

```

Bus 0 Enclosure 0 Disk 4 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 5 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 6 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 7 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 0 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 1 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 4 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 5 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 6 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 7 Soft Write Errors: 0

```

```
Bus 0 Enclosure 0 Disk 0 Enabled
```

```
Bus 0 Enclosure 0 Disk 1 Enabled
```

```
Bus 0 Enclosure 0 Disk 4 Enabled
```

```
Bus 0 Enclosure 0 Disk 5 Enabled
```

```
Bus 0 Enclosure 0 Disk 6 Enabled
```

```
Bus 0 Enclosure 0 Disk 7 Enabled
```

```

Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

```
A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 1
Statistics logging is disabled.
```

```

Certain fields are not printed if statistics
logging is not enabled.

```

```

Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

```

```

Prefetching: NO
Prefetched data retained YES

```

```

Read cache configured according to
specified parameters.

```

```

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 1
Minimum latency reads N/A

```

```

RAID Type: RAID0
RAIDGroup ID: 1
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP A
Auto-trespass: DISABLED
Auto-assign: DISABLED

```

```

Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: N/A
Verify Priority: N/A

```

```

Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:

```

```
60:06:01:F4:E8:8B:00:00:DB:F0:D8:3A:FB:F7:D6:11
```

```

Bus 0 Enclosure 0 Disk 8 Queue Length: 0
Bus 0 Enclosure 0 Disk 9 Queue Length: 0
Bus 0 Enclosure 1 Disk 0 Queue Length: 0
Bus 0 Enclosure 1 Disk 1 Queue Length: 0
Bus 0 Enclosure 1 Disk 2 Queue Length: 0
Bus 0 Enclosure 1 Disk 3 Queue Length: 0
Bus 0 Enclosure 0 Disk 8 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 9 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 0 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 1 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 2 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 3 Hard Read Errors: 0
Bus 0 Enclosure 0 Disk 8 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 9 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 0 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 1 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 2 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 3 Hard Write Errors: 0
Bus 0 Enclosure 0 Disk 8 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 9 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 0 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 1 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 2 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 3 Soft Read Errors: 0
Bus 0 Enclosure 0 Disk 8 Soft Write Errors: 0
Bus 0 Enclosure 0 Disk 9 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 0 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 1 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 2 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 3 Soft Write Errors: 0

```

```
Bus 0 Enclosure 0 Disk 8 Enabled
```

```
Bus 0 Enclosure 0 Disk 9 Enabled
```

```
Bus 0 Enclosure 1 Disk 0 Enabled
```

```
Bus 0 Enclosure 1 Disk 1 Enabled
```

```
Bus 0 Enclosure 1 Disk 2 Enabled
```

```
Bus 0 Enclosure 1 Disk 3 Enabled
```

```
Is Private: NO
```

Snapshots List: None
MirrorView Name if any: Not Mirrored

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 2

Statistics logging is disabled.

Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 2
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 2
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP A
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:

60:06:01:F4:E8:8B:00:00:DC:F0:D8:3A:FB:F7:D6:11

Bus 0 Enclosure 1 Disk 4 Queue Length: 0
Bus 0 Enclosure 1 Disk 5 Queue Length: 0
Bus 0 Enclosure 1 Disk 6 Queue Length: 0
Bus 0 Enclosure 1 Disk 7 Queue Length: 0
Bus 0 Enclosure 1 Disk 8 Queue Length: 0
Bus 0 Enclosure 1 Disk 9 Queue Length: 0
Bus 0 Enclosure 1 Disk 4 Hard Read Errors: 0

Bus 0 Enclosure 1 Disk 5 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 6 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 7 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 8 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 9 Hard Read Errors: 0
Bus 0 Enclosure 1 Disk 4 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 5 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 6 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 7 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 8 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 9 Hard Write Errors: 0
Bus 0 Enclosure 1 Disk 4 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 5 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 6 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 7 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 8 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 9 Soft Read Errors: 0
Bus 0 Enclosure 1 Disk 4 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 5 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 6 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 7 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 8 Soft Write Errors: 0
Bus 0 Enclosure 1 Disk 9 Soft Write Errors: 0

Bus 0 Enclosure 1 Disk 4 Enabled

Bus 0 Enclosure 1 Disk 5 Enabled

Bus 0 Enclosure 1 Disk 6 Enabled

Bus 0 Enclosure 1 Disk 7 Enabled

Bus 0 Enclosure 1 Disk 8 Enabled

Bus 0 Enclosure 1 Disk 9 Enabled

Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 3

Statistics logging is disabled.

Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to specified parameters.

Total Hard Errors: 0

Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 3
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 3
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP A
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:

60:06:01:F4:E8:8B:00:00:DD:F0:D8:3A:FB:F7:D6:11

Bus 0 Enclosure 2 Disk 0	Queue Length:	0
Bus 0 Enclosure 2 Disk 1	Queue Length:	0
Bus 0 Enclosure 2 Disk 2	Queue Length:	0
Bus 0 Enclosure 2 Disk 3	Queue Length:	0
Bus 0 Enclosure 2 Disk 4	Queue Length:	0
Bus 0 Enclosure 2 Disk 5	Queue Length:	0
Bus 0 Enclosure 2 Disk 0	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 1	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 2	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 3	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 4	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 5	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 0	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 1	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 2	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 3	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 4	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 5	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 0	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 1	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 2	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 3	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 4	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 5	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 0	Soft Write Errors:	0
Bus 0 Enclosure 2 Disk 1	Soft Write Errors:	0
Bus 0 Enclosure 2 Disk 2	Soft Write Errors:	0
Bus 0 Enclosure 2 Disk 3	Soft Write Errors:	0
Bus 0 Enclosure 2 Disk 4	Soft Write Errors:	0
Bus 0 Enclosure 2 Disk 5	Soft Write Errors:	0

Bus 0 Enclosure 2 Disk 0 Enabled
Bus 0 Enclosure 2 Disk 1 Enabled
Bus 0 Enclosure 2 Disk 2 Enabled
Bus 0 Enclosure 2 Disk 3 Enabled
Bus 0 Enclosure 2 Disk 4 Enabled
Bus 0 Enclosure 2 Disk 5 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 4
Statistics logging is disabled.

Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 4
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 4
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0

Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808

UID:
60:06:01:F4:E8:8B:00:00:DE:F0:D8:3A:FB:F7:D6:11

Bus 0 Enclosure 2 Disk 6	Queue Length:	0
Bus 0 Enclosure 2 Disk 7	Queue Length:	0
Bus 0 Enclosure 2 Disk 8	Queue Length:	0
Bus 0 Enclosure 2 Disk 9	Queue Length:	0
Bus 0 Enclosure 3 Disk 0	Queue Length:	0
Bus 0 Enclosure 3 Disk 1	Queue Length:	0
Bus 0 Enclosure 2 Disk 6	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 7	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 8	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 9	Hard Read Errors:	0
Bus 0 Enclosure 3 Disk 0	Hard Read Errors:	0
Bus 0 Enclosure 3 Disk 1	Hard Read Errors:	0
Bus 0 Enclosure 2 Disk 6	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 7	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 8	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 9	Hard Write Errors:	0
Bus 0 Enclosure 3 Disk 0	Hard Write Errors:	0
Bus 0 Enclosure 3 Disk 1	Hard Write Errors:	0
Bus 0 Enclosure 2 Disk 6	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 7	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 8	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 9	Soft Read Errors:	0
Bus 0 Enclosure 3 Disk 0	Soft Read Errors:	0
Bus 0 Enclosure 3 Disk 1	Soft Read Errors:	0
Bus 0 Enclosure 2 Disk 6	Soft Write Errors:	0
Bus 0 Enclosure 2 Disk 7	Soft Write Errors:	0
Bus 0 Enclosure 2 Disk 8	Soft Write Errors:	0
Bus 0 Enclosure 2 Disk 9	Soft Write Errors:	0
Bus 0 Enclosure 3 Disk 0	Soft Write Errors:	0
Bus 0 Enclosure 3 Disk 1	Soft Write Errors:	0

Bus 0 Enclosure 2 Disk 6 Enabled

Bus 0 Enclosure 2 Disk 7 Enabled

Bus 0 Enclosure 2 Disk 8 Enabled

Bus 0 Enclosure 2 Disk 9 Enabled

Bus 0 Enclosure 3 Disk 0 Enabled

Bus 0 Enclosure 3 Disk 1 Enabled

Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 5
Statistics logging is disabled.

Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) = 0
Prefetch multiplier = 4

Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name: Flare LUN 5
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 5
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A
Verify Priority: N/A

Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808

UID:
60:06:01:F4:E8:8B:00:00:DF:F0:D8:3A:FB:F7:D6:11

Bus 0 Enclosure 3 Disk 2	Queue Length:	0
Bus 0 Enclosure 3 Disk 3	Queue Length:	0
Bus 0 Enclosure 3 Disk 4	Queue Length:	0
Bus 0 Enclosure 3 Disk 5	Queue Length:	0
Bus 0 Enclosure 3 Disk 6	Queue Length:	0
Bus 0 Enclosure 3 Disk 7	Queue Length:	0
Bus 0 Enclosure 3 Disk 2	Hard Read Errors:	0
Bus 0 Enclosure 3 Disk 3	Hard Read Errors:	0
Bus 0 Enclosure 3 Disk 4	Hard Read Errors:	0
Bus 0 Enclosure 3 Disk 5	Hard Read Errors:	0
Bus 0 Enclosure 3 Disk 6	Hard Read Errors:	0
Bus 0 Enclosure 3 Disk 7	Hard Read Errors:	0
Bus 0 Enclosure 3 Disk 2	Hard Write Errors:	0
Bus 0 Enclosure 3 Disk 3	Hard Write Errors:	0
Bus 0 Enclosure 3 Disk 4	Hard Write Errors:	0
Bus 0 Enclosure 3 Disk 5	Hard Write Errors:	0
Bus 0 Enclosure 3 Disk 6	Hard Write Errors:	0

```

Bus 0 Enclosure 3 Disk 7 Hard Write Errors:      0
Bus 0 Enclosure 3 Disk 2 Soft Read Errors:       0
Bus 0 Enclosure 3 Disk 3 Soft Read Errors:       0
Bus 0 Enclosure 3 Disk 4 Soft Read Errors:       0
Bus 0 Enclosure 3 Disk 5 Soft Read Errors:       0
Bus 0 Enclosure 3 Disk 6 Soft Read Errors:       0
Bus 0 Enclosure 3 Disk 7 Soft Read Errors:       0
Bus 0 Enclosure 3 Disk 2 Soft Write Errors:      0
Bus 0 Enclosure 3 Disk 3 Soft Write Errors:      0
Bus 0 Enclosure 3 Disk 4 Soft Write Errors:      0
Bus 0 Enclosure 3 Disk 5 Soft Write Errors:      0
Bus 0 Enclosure 3 Disk 6 Soft Write Errors:      0
Bus 0 Enclosure 3 Disk 7 Soft Write Errors:      0

```

```
Bus 0 Enclosure 3 Disk 2 Enabled
```

```
Bus 0 Enclosure 3 Disk 3 Enabled
```

```
Bus 0 Enclosure 3 Disk 4 Enabled
```

```
Bus 0 Enclosure 3 Disk 5 Enabled
```

```
Bus 0 Enclosure 3 Disk 6 Enabled
```

```
Bus 0 Enclosure 3 Disk 7 Enabled
```

```

Is Private:          NO
Snapshots List:     None
MirrorView Name if any: Not Mirrored

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 6
Statistics logging is disabled.

```

```

Certain fields are not printed if statistics
logging is not enabled.

```

```

Prefetch size (blocks) =      0
Prefetch multiplier =      4
Segment size (blocks) =      0
Segment multiplier =      4
Maximum prefetch (blocks) =   512
Prefetch Disable Size (blocks) = 129
Prefetch idle count =      40

```

```

Prefetching: NO
Prefetched data retained   YES

```

```

Read cache configured according to
specified parameters.

```

```

Total Hard Errors:      0
Total Soft Errors:      0
Total Queue Length:     0
Name                    Flare LUN 6
Minimum latency reads N/A

```

```

RAID Type:              RAID0
RAIDGroup ID:           6
State:                  Bound
Stripe Crossing:        0
Element Size:           256

```

```

Current owner:          SP B
Auto-trespass:          DISABLED
Auto-assign:            DISABLED
Write cache:            DISABLED
Read cache:             DISABLED
Idle Threshold:         0
Idle Delay Time:        20
Write Aside Size:       1023
Default Owner:          SP B
Rebuild Priority:        N/A
Verify Priority:         N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt:           100
Prct Bound:             100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks):   205751808

```

```

UID:
60:06:01:F4:E8:8B:00:00:E0:F0:D8:3A:FB:F7:D6:11

```

```

Bus 0 Enclosure 3 Disk 8 Queue Length:      0
Bus 0 Enclosure 3 Disk 9 Queue Length:      0
Bus 0 Enclosure 4 Disk 0 Queue Length:      0
Bus 0 Enclosure 4 Disk 1 Queue Length:      0
Bus 0 Enclosure 4 Disk 2 Queue Length:      0
Bus 0 Enclosure 4 Disk 3 Queue Length:      0
Bus 0 Enclosure 3 Disk 8 Hard Read Errors:   0
Bus 0 Enclosure 3 Disk 9 Hard Read Errors:   0
Bus 0 Enclosure 4 Disk 0 Hard Read Errors:   0
Bus 0 Enclosure 4 Disk 1 Hard Read Errors:   0
Bus 0 Enclosure 4 Disk 2 Hard Read Errors:   0
Bus 0 Enclosure 4 Disk 3 Hard Read Errors:   0
Bus 0 Enclosure 3 Disk 8 Hard Write Errors:  0
Bus 0 Enclosure 3 Disk 9 Hard Write Errors:  0
Bus 0 Enclosure 4 Disk 0 Hard Write Errors:  0
Bus 0 Enclosure 4 Disk 1 Hard Write Errors:  0
Bus 0 Enclosure 4 Disk 2 Hard Write Errors:  0
Bus 0 Enclosure 4 Disk 3 Hard Write Errors:  0
Bus 0 Enclosure 3 Disk 8 Soft Read Errors:   0
Bus 0 Enclosure 3 Disk 9 Soft Read Errors:   0
Bus 0 Enclosure 4 Disk 0 Soft Read Errors:   0
Bus 0 Enclosure 4 Disk 1 Soft Read Errors:   0
Bus 0 Enclosure 4 Disk 2 Soft Read Errors:   0
Bus 0 Enclosure 4 Disk 3 Soft Read Errors:   0
Bus 0 Enclosure 3 Disk 8 Soft Write Errors:  0
Bus 0 Enclosure 3 Disk 9 Soft Write Errors:  0
Bus 0 Enclosure 4 Disk 0 Soft Write Errors:  0
Bus 0 Enclosure 4 Disk 1 Soft Write Errors:  0
Bus 0 Enclosure 4 Disk 2 Soft Write Errors:  0
Bus 0 Enclosure 4 Disk 3 Soft Write Errors:  0

```

```
Bus 0 Enclosure 3 Disk 8 Enabled
```

```
Bus 0 Enclosure 3 Disk 9 Enabled
```

```
Bus 0 Enclosure 4 Disk 0 Enabled
```

```
Bus 0 Enclosure 4 Disk 1 Enabled
```

```
Bus 0 Enclosure 4 Disk 2 Enabled
```

Bus 0 Enclosure 4 Disk 3 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 7
Statistics logging is disabled.

Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 7
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 7
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:

60:06:01:F4:E8:8B:00:00:E1:F0:D8:3A:FB:F7:D6:11

Bus 1 Enclosure 1 Disk 0 Queue Length: 0
Bus 1 Enclosure 1 Disk 1 Queue Length: 0
Bus 1 Enclosure 1 Disk 2 Queue Length: 0
Bus 1 Enclosure 1 Disk 3 Queue Length: 0

Bus 1 Enclosure 1 Disk 4 Queue Length: 0
Bus 1 Enclosure 1 Disk 5 Queue Length: 0
Bus 1 Enclosure 1 Disk 0 Hard Read Errors: 0
Bus 1 Enclosure 1 Disk 1 Hard Read Errors: 0
Bus 1 Enclosure 1 Disk 2 Hard Read Errors: 0
Bus 1 Enclosure 1 Disk 3 Hard Read Errors: 0
Bus 1 Enclosure 1 Disk 4 Hard Read Errors: 0
Bus 1 Enclosure 1 Disk 5 Hard Read Errors: 0
Bus 1 Enclosure 1 Disk 0 Hard Write Errors: 0
Bus 1 Enclosure 1 Disk 1 Hard Write Errors: 0
Bus 1 Enclosure 1 Disk 2 Hard Write Errors: 0
Bus 1 Enclosure 1 Disk 3 Hard Write Errors: 0
Bus 1 Enclosure 1 Disk 4 Hard Write Errors: 0
Bus 1 Enclosure 1 Disk 5 Hard Write Errors: 0
Bus 1 Enclosure 1 Disk 0 Soft Read Errors: 0
Bus 1 Enclosure 1 Disk 1 Soft Read Errors: 0
Bus 1 Enclosure 1 Disk 2 Soft Read Errors: 0
Bus 1 Enclosure 1 Disk 3 Soft Read Errors: 0
Bus 1 Enclosure 1 Disk 4 Soft Read Errors: 0
Bus 1 Enclosure 1 Disk 5 Soft Read Errors: 0
Bus 1 Enclosure 1 Disk 0 Soft Write Errors: 0
Bus 1 Enclosure 1 Disk 1 Soft Write Errors: 0
Bus 1 Enclosure 1 Disk 2 Soft Write Errors: 0
Bus 1 Enclosure 1 Disk 3 Soft Write Errors: 0
Bus 1 Enclosure 1 Disk 4 Soft Write Errors: 0
Bus 1 Enclosure 1 Disk 5 Soft Write Errors: 0

Bus 1 Enclosure 1 Disk 0 Enabled

Bus 1 Enclosure 1 Disk 1 Enabled

Bus 1 Enclosure 1 Disk 2 Enabled

Bus 1 Enclosure 1 Disk 3 Enabled

Bus 1 Enclosure 1 Disk 4 Enabled

Bus 1 Enclosure 1 Disk 5 Enabled

Is Private: NO

Snapshots List: None

MirrorView Name if any: Not Mirrored

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 8
Statistics logging is disabled.

Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

Variable length prefetching YES

Prefetched data retained YES

Read cache configured according to

specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 8
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 8
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:
60:06:01:F4:E8:8B:00:00:E2:F0:D8:3A:FB:F7:D6:11

Bus 1 Enclosure 1 Disk 6	Queue Length:	0
Bus 1 Enclosure 1 Disk 7	Queue Length:	0
Bus 1 Enclosure 1 Disk 8	Queue Length:	0
Bus 1 Enclosure 1 Disk 9	Queue Length:	0
Bus 1 Enclosure 2 Disk 0	Queue Length:	0
Bus 1 Enclosure 2 Disk 1	Queue Length:	0
Bus 1 Enclosure 1 Disk 6	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 7	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 8	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 9	Hard Read Errors:	0
Bus 1 Enclosure 2 Disk 0	Hard Read Errors:	0
Bus 1 Enclosure 2 Disk 1	Hard Read Errors:	0
Bus 1 Enclosure 1 Disk 6	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 7	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 8	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 9	Hard Write Errors:	0
Bus 1 Enclosure 2 Disk 0	Hard Write Errors:	0
Bus 1 Enclosure 2 Disk 1	Hard Write Errors:	0
Bus 1 Enclosure 1 Disk 6	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 7	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 8	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 9	Soft Read Errors:	0
Bus 1 Enclosure 2 Disk 0	Soft Read Errors:	0
Bus 1 Enclosure 2 Disk 1	Soft Read Errors:	0
Bus 1 Enclosure 1 Disk 6	Soft Write Errors:	0
Bus 1 Enclosure 1 Disk 7	Soft Write Errors:	0
Bus 1 Enclosure 1 Disk 8	Soft Write Errors:	0

Bus 1 Enclosure 1 Disk 9	Soft Write Errors:	0
Bus 1 Enclosure 2 Disk 0	Soft Write Errors:	0
Bus 1 Enclosure 2 Disk 1	Soft Write Errors:	0

Bus 1 Enclosure 1 Disk 6 Enabled

Bus 1 Enclosure 1 Disk 7 Enabled

Bus 1 Enclosure 1 Disk 8 Enabled

Bus 1 Enclosure 1 Disk 9 Enabled

Bus 1 Enclosure 2 Disk 0 Enabled

Bus 1 Enclosure 2 Disk 1 Enabled

Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 9
Statistics logging is disabled.

Certain fields are not printed if statistics logging is not enabled.

Prefetch size (blocks) =	0
Prefetch multiplier =	4
Segment size (blocks) =	0
Segment multiplier =	4
Maximum prefetch (blocks) =	512
Prefetch Disable Size (blocks) =	129
Prefetch idle count =	40

Prefetching: NO
Prefetched data retained YES

Read cache configured according to specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 9
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 9
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP B
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP B
Rebuild Priority: N/A

```

Verify Priority:          N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt:           100
Prct Bound:              100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks):   205751808
UID:

```

```

60:06:01:F4:E8:8B:00:00:E3:F0:D8:3A:FB:F7:D6:11
Bus 1 Enclosure 2 Disk 2 Queue Length:      0
Bus 1 Enclosure 2 Disk 3 Queue Length:      0
Bus 1 Enclosure 2 Disk 4 Queue Length:      0
Bus 1 Enclosure 2 Disk 5 Queue Length:      0
Bus 1 Enclosure 2 Disk 6 Queue Length:      0
Bus 1 Enclosure 2 Disk 7 Queue Length:      0
Bus 1 Enclosure 2 Disk 2 Hard Read Errors:   0
Bus 1 Enclosure 2 Disk 3 Hard Read Errors:   0
Bus 1 Enclosure 2 Disk 4 Hard Read Errors:   0
Bus 1 Enclosure 2 Disk 5 Hard Read Errors:   0
Bus 1 Enclosure 2 Disk 6 Hard Read Errors:   0
Bus 1 Enclosure 2 Disk 7 Hard Read Errors:   0
Bus 1 Enclosure 2 Disk 2 Hard Write Errors:  0
Bus 1 Enclosure 2 Disk 3 Hard Write Errors:  0
Bus 1 Enclosure 2 Disk 4 Hard Write Errors:  0
Bus 1 Enclosure 2 Disk 5 Hard Write Errors:  0
Bus 1 Enclosure 2 Disk 6 Hard Write Errors:  0
Bus 1 Enclosure 2 Disk 7 Hard Write Errors:  0
Bus 1 Enclosure 2 Disk 2 Soft Read Errors:   0
Bus 1 Enclosure 2 Disk 3 Soft Read Errors:   0
Bus 1 Enclosure 2 Disk 4 Soft Read Errors:   0
Bus 1 Enclosure 2 Disk 5 Soft Read Errors:   0
Bus 1 Enclosure 2 Disk 6 Soft Read Errors:   0
Bus 1 Enclosure 2 Disk 7 Soft Read Errors:   0
Bus 1 Enclosure 2 Disk 2 Soft Write Errors:  0
Bus 1 Enclosure 2 Disk 3 Soft Write Errors:  0
Bus 1 Enclosure 2 Disk 4 Soft Write Errors:  0
Bus 1 Enclosure 2 Disk 5 Soft Write Errors:  0
Bus 1 Enclosure 2 Disk 6 Soft Write Errors:  0
Bus 1 Enclosure 2 Disk 7 Soft Write Errors:  0

```

```
Bus 1 Enclosure 2 Disk 2 Enabled
```

```
Bus 1 Enclosure 2 Disk 3 Enabled
```

```
Bus 1 Enclosure 2 Disk 4 Enabled
```

```
Bus 1 Enclosure 2 Disk 5 Enabled
```

```
Bus 1 Enclosure 2 Disk 6 Enabled
```

```
Bus 1 Enclosure 2 Disk 7 Enabled
```

```

Is Private:          NO
Snapshots List:      None
MirrorView Name if any: Not Mirrored

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 10
Statistics logging is disabled.
Certain fields are not printed if statistics

```

```

logging is not enabled.
Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

```

```

Variable length prefetching YES
Prefetched data retained YES

```

```

Read cache configured according to
specified parameters.

```

```

Total Hard Errors:      0
Total Soft Errors:      0
Total Queue Length:     0
Name                    Flare LUN 10
Minimum latency reads N/A

```

```

RAID Type:              RAID0
RAIDGroup ID:          10
State:                  Bound
Stripe Crossing:       0
Element Size:          256
Current owner:         SP B
Auto-trespass:         DISABLED
Auto-assign:           DISABLED
Write cache:           DISABLED
Read cache:            DISABLED
Idle Threshold:        0
Idle Delay Time:       20
Write Aside Size:      1023
Default Owner:         SP B
Rebuild Priority:      N/A
Verify Priority:       N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt:          100
Prct Bound:            100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks):  205751808
UID:

```

```

60:06:01:F4:E8:8B:00:00:E4:F0:D8:3A:FB:F7:D6:11
Bus 1 Enclosure 2 Disk 8 Queue Length:      0
Bus 1 Enclosure 2 Disk 9 Queue Length:      0
Bus 1 Enclosure 3 Disk 0 Queue Length:      0
Bus 1 Enclosure 3 Disk 1 Queue Length:      0
Bus 1 Enclosure 3 Disk 2 Queue Length:      0
Bus 1 Enclosure 3 Disk 3 Queue Length:      0
Bus 1 Enclosure 2 Disk 8 Hard Read Errors:   0
Bus 1 Enclosure 2 Disk 9 Hard Read Errors:   0
Bus 1 Enclosure 3 Disk 0 Hard Read Errors:   0
Bus 1 Enclosure 3 Disk 1 Hard Read Errors:   0
Bus 1 Enclosure 3 Disk 2 Hard Read Errors:   0
Bus 1 Enclosure 3 Disk 3 Hard Read Errors:   0
Bus 1 Enclosure 2 Disk 8 Hard Write Errors:  0
Bus 1 Enclosure 2 Disk 9 Hard Write Errors:  0

```

```

Bus 1 Enclosure 3 Disk 0 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 1 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 2 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 3 Hard Write Errors: 0
Bus 1 Enclosure 2 Disk 8 Soft Read Errors: 0
Bus 1 Enclosure 2 Disk 9 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 0 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 1 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 2 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 3 Soft Read Errors: 0
Bus 1 Enclosure 2 Disk 8 Soft Write Errors: 0
Bus 1 Enclosure 2 Disk 9 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 0 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 1 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 2 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 3 Soft Write Errors: 0

```

```

Bus 1 Enclosure 2 Disk 8 Enabled
Bus 1 Enclosure 2 Disk 9 Enabled
Bus 1 Enclosure 3 Disk 0 Enabled
Bus 1 Enclosure 3 Disk 1 Enabled
Bus 1 Enclosure 3 Disk 2 Enabled
Bus 1 Enclosure 3 Disk 3 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 11
Statistics logging is disabled.

```

```

Certain fields are not printed if statistics
logging is not enabled.

```

```

Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

```

```

Prefetching: NO
Prefetched data retained YES

```

```

Read cache configured according to
specified parameters.

```

```

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 11
Minimum latency reads N/A

```

```

RAID Type: RAID0
RAIDGroup ID: 11

```

```

State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP A
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:

```

```

60:06:01:F4:E8:8B:00:00:E5:F0:D8:3A:FB:F7:D6:11
Bus 1 Enclosure 3 Disk 4 Queue Length: 0
Bus 1 Enclosure 3 Disk 5 Queue Length: 0
Bus 1 Enclosure 3 Disk 6 Queue Length: 0
Bus 1 Enclosure 3 Disk 7 Queue Length: 0
Bus 1 Enclosure 3 Disk 8 Queue Length: 0
Bus 1 Enclosure 3 Disk 9 Queue Length: 0
Bus 1 Enclosure 3 Disk 4 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 5 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 6 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 7 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 8 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 9 Hard Read Errors: 0
Bus 1 Enclosure 3 Disk 4 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 5 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 6 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 7 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 8 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 9 Hard Write Errors: 0
Bus 1 Enclosure 3 Disk 4 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 5 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 6 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 7 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 8 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 9 Soft Read Errors: 0
Bus 1 Enclosure 3 Disk 4 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 5 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 6 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 7 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 8 Soft Write Errors: 0
Bus 1 Enclosure 3 Disk 9 Soft Write Errors: 0

```

```

Bus 1 Enclosure 3 Disk 4 Enabled
Bus 1 Enclosure 3 Disk 5 Enabled
Bus 1 Enclosure 3 Disk 6 Enabled

```

```

Bus 1 Enclosure 3 Disk 7 Enabled
Bus 1 Enclosure 3 Disk 8 Enabled

Bus 1 Enclosure 3 Disk 9 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 12
Statistics logging is disabled.

```

```

Certain fields are not printed if statistics
logging is not enabled.

```

```

Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

```

```

Prefetching: NO
Prefetched data retained YES

```

```

Read cache configured according to
specified parameters.

```

```

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 12
Minimum latency reads N/A

```

```

RAID Type: RAID0
RAIDGroup ID: 12
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP A
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:
60:06:01:F4:E8:8B:00:00:E6:F0:D8:3A:FB:F7:D6:11
Bus 1 Enclosure 4 Disk 0 Queue Length: 0

```

```

Bus 1 Enclosure 4 Disk 1 Queue Length: 0
Bus 1 Enclosure 4 Disk 2 Queue Length: 0
Bus 1 Enclosure 4 Disk 3 Queue Length: 0
Bus 1 Enclosure 4 Disk 4 Queue Length: 0
Bus 1 Enclosure 4 Disk 5 Queue Length: 0
Bus 1 Enclosure 4 Disk 0 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 1 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 2 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 3 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 4 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 5 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 0 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 1 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 2 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 3 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 4 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 5 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 0 Soft Read Errors: 0
Bus 1 Enclosure 4 Disk 1 Soft Read Errors: 0
Bus 1 Enclosure 4 Disk 2 Soft Read Errors: 0
Bus 1 Enclosure 4 Disk 3 Soft Read Errors: 0
Bus 1 Enclosure 4 Disk 4 Soft Read Errors: 0
Bus 1 Enclosure 4 Disk 5 Soft Read Errors: 0
Bus 1 Enclosure 4 Disk 0 Soft Write Errors: 0
Bus 1 Enclosure 4 Disk 1 Soft Write Errors: 0
Bus 1 Enclosure 4 Disk 2 Soft Write Errors: 0
Bus 1 Enclosure 4 Disk 3 Soft Write Errors: 0
Bus 1 Enclosure 4 Disk 4 Soft Write Errors: 0
Bus 1 Enclosure 4 Disk 5 Soft Write Errors: 0

```

```

Bus 1 Enclosure 4 Disk 0 Enabled
Bus 1 Enclosure 4 Disk 1 Enabled
Bus 1 Enclosure 4 Disk 2 Enabled
Bus 1 Enclosure 4 Disk 3 Enabled
Bus 1 Enclosure 4 Disk 4 Enabled

```

```

Bus 1 Enclosure 4 Disk 5 Enabled
Is Private: NO
Snapshots List: None
MirrorView Name if any: Not Mirrored

```

```

A:\>"c:\program files\emc\navisphere cli\navicli" -h 10.10.10.5 getlun 13
Statistics logging is disabled.

```

```

Certain fields are not printed if statistics
logging is not enabled.

```

```

Prefetch size (blocks) = 0
Prefetch multiplier = 4
Segment size (blocks) = 0
Segment multiplier = 4
Maximum prefetch (blocks) = 512
Prefetch Disable Size (blocks) = 129
Prefetch idle count = 40

```

```

Prefetching: NO

```


Prefetched data retained YES

Read cache configured according to specified parameters.

Total Hard Errors: 0
Total Soft Errors: 0
Total Queue Length: 0
Name Flare LUN 13
Minimum latency reads N/A

RAID Type: RAID0
RAIDGroup ID: 13
State: Bound
Stripe Crossing: 0
Element Size: 256
Current owner: SP A
Auto-trespass: DISABLED
Auto-assign: DISABLED
Write cache: DISABLED
Read cache: DISABLED
Idle Threshold: 0
Idle Delay Time: 20
Write Aside Size: 1023
Default Owner: SP A
Rebuild Priority: N/A
Verify Priority: N/A
Prct Reads Forced Flushed: 0
Prct Writes Forced Flushed: 0
Prct Rebuilt: 100
Prct Bound: 100
LUN Capacity(Megabytes): 100464
LUN Capacity(Blocks): 205751808
UID:

60:06:01:F4:E8:8B:00:00:E7:F0:D8:3A:FB:F7:D6:11

Bus 1 Enclosure 4 Disk 6 Queue Length: 0
Bus 1 Enclosure 4 Disk 7 Queue Length: 0
Bus 1 Enclosure 4 Disk 8 Queue Length: 0
Bus 1 Enclosure 4 Disk 9 Queue Length: 0
Bus 0 Enclosure 4 Disk 4 Queue Length: 0
Bus 0 Enclosure 4 Disk 5 Queue Length: 0
Bus 1 Enclosure 4 Disk 6 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 7 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 8 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 9 Hard Read Errors: 0
Bus 0 Enclosure 4 Disk 4 Hard Read Errors: 0
Bus 0 Enclosure 4 Disk 5 Hard Read Errors: 0
Bus 1 Enclosure 4 Disk 6 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 7 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 8 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 9 Hard Write Errors: 0
Bus 0 Enclosure 4 Disk 4 Hard Write Errors: 0
Bus 0 Enclosure 4 Disk 5 Hard Write Errors: 0
Bus 1 Enclosure 4 Disk 6 Soft Read Errors: 0
Bus 1 Enclosure 4 Disk 7 Soft Read Errors: 0
Bus 1 Enclosure 4 Disk 8 Soft Read Errors: 0
Bus 1 Enclosure 4 Disk 9 Soft Read Errors: 0
Bus 0 Enclosure 4 Disk 4 Soft Read Errors: 0
Bus 0 Enclosure 4 Disk 5 Soft Read Errors: 0

Bus 1 Enclosure 4 Disk 6 Soft Write Errors: 0
Bus 1 Enclosure 4 Disk 7 Soft Write Errors: 0
Bus 1 Enclosure 4 Disk 8 Soft Write Errors: 0
Bus 1 Enclosure 4 Disk 9 Soft Write Errors: 0
Bus 0 Enclosure 4 Disk 4 Soft Write Errors: 0
Bus 0 Enclosure 4 Disk 5 Soft Write Errors: 0

Bus 1 Enclosure 4 Disk 6 Enabled

Bus 1 Enclosure 4 Disk 7 Enabled

Bus 1 Enclosure 4 Disk 8 Enabled

Bus 1 Enclosure 4 Disk 9 Enabled

Bus 0 Enclosure 4 Disk 4 Enabled

Bus 0 Enclosure 4 Disk 5 Enabled

Is Private: NO

Snapshots List: None

MirrorView Name if any: Not Mirrored

Windows Datacenter Server Configuration Information

System Information report written at: 12/02/02 10:38:16

System Name: MV-LE030P1

[System Summary]

Item Value
OS Name Microsoft(R) Windows(R) .NET Server 2003, Datacenter Edition
Version 5.2.3694 Build 3694
OS Manufacturer Microsoft Corporation
Activation Status Activation Pending (15 days remaining)
System Name MV-LE030P1
System Manufacturer UNISYS
System Model Horizon
System Type X86-based PC
Processor x86 Family 15 Model 2 Stepping 2 GenuineIntel ~2000 Mhz
Processor x86 Family 15 Model 2 Stepping 2 GenuineIntel ~2000 Mhz
Processor x86 Family 15 Model 2 Stepping 2 GenuineIntel ~2000 Mhz
Processor x86 Family 15 Model 2 Stepping 2 GenuineIntel ~2000 Mhz
Processor x86 Family 15 Model 2 Stepping 2 GenuineIntel ~2000 Mhz
Processor x86 Family 15 Model 2 Stepping 2 GenuineIntel ~2000 Mhz
Processor x86 Family 15 Model 2 Stepping 2 GenuineIntel ~2000 Mhz
Processor x86 Family 15 Model 2 Stepping 2 GenuineIntel ~2000 Mhz
Processor x86 Family 15 Model 2 Stepping 2 GenuineIntel ~2000 Mhz

Memory Address 0xFA100000-0xFBFFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xD6000000-0xDDFFFFFF PCI bus
Memory Address 0xD6000000-0xDDFFFFFF cLAN Host Adapter #3

Memory Address 0xFC000000-0xFDFFFFFF PCI bus
Memory Address 0xFC000000-0xFDFFFFFF cLAN Host Adapter #2

Memory Address 0xEB800000-0xEBFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xEB800000-0xEBFFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xE4000000-0xE5FFFFFF PCI bus
Memory Address 0xE4000000-0xE5FFFFFF cLAN Host Adapter #4

Memory Address 0xE3800000-0xE3FFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xE3800000-0xE3FFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xE1800000-0xE1FFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xE1800000-0xE1FFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xE0000000-0xE1FFFFFF PCI bus
Memory Address 0xE0000000-0xE1FFFFFF Adaptec SCSI Card 39160 - Ultra160 SCSI

Memory Address 0xDE000000-0xDFFFFFFF PCI bus
Memory Address 0xDE000000-0xDFFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xDE000000-0xDFFFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xE7800000-0xE7FFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xE7800000-0xE7FFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xDF800000-0xDFFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xDF800000-0xDFFFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xA0000-0xBFFFF PCI bus
Memory Address 0xA0000-0xBFFFF DEC 21152 PCI to PCI bridge
Memory Address 0xA0000-0xBFFFF Console Manager Video Driver

Memory Address 0xF8000000-0xF9FFFFFF PCI bus
Memory Address 0xF8000000-0xF9FFFFFF cLAN Host Adapter #6

Memory Address 0xF3800000-0xF3FFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xF3800000-0xF3FFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

I/O Port 0x000003B0-0x000003BB DEC 21152 PCI to PCI bridge
I/O Port 0x000003B0-0x000003BB Console Manager Video Driver

Memory Address 0xFB800000-0xFBFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xFB800000-0xFBFFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xF6100000-0xF7FFFFFF PCI bus
Memory Address 0xF6100000-0xF7FFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xF6100000-0xF7FFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xDC000000-0xDDFFFFFF DEC 21152 PCI to PCI bridge
Memory Address 0xDC000000-0xDDFFFFFF Console Manager control device

IRQ 0 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
IRQ 0 System timer

Memory Address 0xEE100000-0xEEFFFFFF PCI bus
Memory Address 0xEE100000-0xEEFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xEE100000-0xEEFFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xE0100000-0xE01FFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xE0100000-0xE01FFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xF2100000-0xF3FFFFFF PCI bus
Memory Address 0xF2100000-0xF3FFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xF2100000-0xF3FFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xEA100000-0xEBFFFFFF PCI bus
Memory Address 0xEA100000-0xEBFFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xEA100000-0xEBFFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

Memory Address 0xE6100000-0xE7FFFFFF PCI bus
Memory Address 0xE6100000-0xE7FFFFFF PCI standard PCI-to-PCI bridge

Memory Address 0xE6100000-0xE7FFFFFF Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)

[DMA]

Resource	Device	Status
Channel 4	Direct memory access controller	OK
Channel 1	ECP Printer Port (LPT1)	OK
Channel 2	Standard floppy disk controller	OK

[Forced Hardware]

Device PNP Device ID

[I/O]

Resource	Device	Status
0x00001030-0x0000103F	PCI bus OK	
0x00001040-0x000013FF	PCI bus OK	
0x00001100-0x000011FF	Adaptec SCSI Card 39160 - Ultra160 SCSI	OK
0x00001200-0x000012FF	Adaptec SCSI Card 39160 - Ultra160 SCSI	OK
0x00000000-0x0000102F	PCI bus OK	
0x00000000-0x0000102F	Direct memory access controller	OK
0x00000A79-0x00000A79	ISAPNP Read Data Port	OK
0x00000279-0x00000279	ISAPNP Read Data Port	OK
0x00000274-0x00000277	ISAPNP Read Data Port	OK
0x00000081-0x0000008F	Direct memory access controller	OK
0x000000C0-0x000000DF	Direct memory access controller	OK
0x00000020-0x00000021	Programmable interrupt controller	OK
0x000000A0-0x000000A1	Programmable interrupt controller	OK
0x00000070-0x00000071	System CMOS/real time clock	OK
0x00000040-0x00000043	System timer	OK
0x00000061-0x00000061	System speaker	OK
0x00000101-0x0000016F	System speaker	OK
0x00000178-0x000001CD	System speaker	OK
0x000001D0-0x000001EF	System speaker	OK
0x000001F8-0x00000273	System speaker	OK
0x00000280-0x000002E7	System speaker	OK
0x000002F0-0x000002F7	System speaker	OK
0x00000300-0x00000377	System speaker	OK
0x00000380-0x000003AF	System speaker	OK
0x000003BC-0x000003BF	System speaker	OK
0x000003E0-0x000003E7	System speaker	OK
0x000003F6-0x000003F6	System speaker	OK
0x00000501-0x0000056F	System speaker	OK
0x00000578-0x000005CD	System speaker	OK
0x000005D0-0x000005EF	System speaker	OK
0x000005F8-0x00000677	System speaker	OK
0x00000680-0x000006E7	System speaker	OK
0x000006F0-0x000006F7	System speaker	OK
0x00000700-0x00000777	System speaker	OK
0x00000780-0x000007AF	System speaker	OK
0x000007BC-0x000007BF	System speaker	OK
0x000007E0-0x000007E7	System speaker	OK
0x000007F6-0x000007F6	System speaker	OK
0x00000901-0x0000096F	System speaker	OK
0x00000978-0x000009CD	System speaker	OK
0x000009D0-0x000009EF	System speaker	OK
0x000009F8-0x00000A77	System speaker	OK
0x00000A80-0x00000AE7	System speaker	OK
0x00000AF0-0x00000AF7	System speaker	OK
0x00000B00-0x00000B77	System speaker	OK
0x00000B80-0x00000BAF	System speaker	OK
0x00000BEC-0x00000BBF	System speaker	OK
0x00000BE0-0x00000BE7	System speaker	OK
0x00000BF6-0x00000BF6	System speaker	OK
0x00000D01-0x00000D6F	System speaker	OK
0x00000D78-0x00000DCD	System speaker	OK

0x00000DD0-0x00000DEF	System speaker	OK
0x00000DF8-0x00000E77	System speaker	OK
0x00000E80-0x00000EE7	System speaker	OK
0x00000EF0-0x00000EF7	System speaker	OK
0x00000F00-0x00000F77	System speaker	OK
0x00000F80-0x00000FAF	System speaker	OK
0x00000FBC-0x00000FBF	System speaker	OK
0x00000FE0-0x00000FE7	System speaker	OK
0x00000FF6-0x00000FF6	System speaker	OK
0x00001101-0x0000116F	System speaker	OK
0x00001178-0x000011CD	System speaker	OK
0x000011D0-0x000011EF	System speaker	OK
0x000011F8-0x00001277	System speaker	OK
0x00001280-0x000012E7	System speaker	OK
0x000012F0-0x000012F7	System speaker	OK
0x00001300-0x00001377	System speaker	OK
0x00001380-0x000013AF	System speaker	OK
0x000013BC-0x000013BF	System speaker	OK
0x000013E0-0x000013E7	System speaker	OK
0x000013F6-0x000013F6	System speaker	OK
0x00001501-0x0000156F	System speaker	OK
0x00001578-0x000015CD	System speaker	OK
0x000015D0-0x000015EF	System speaker	OK
0x000015F8-0x00001677	System speaker	OK
0x00001680-0x000016E7	System speaker	OK
0x000016F0-0x000016F7	System speaker	OK
0x00001700-0x00001777	System speaker	OK
0x00001780-0x000017AF	System speaker	OK
0x000017BC-0x000017BF	System speaker	OK
0x000017E0-0x000017E7	System speaker	OK
0x000017F6-0x000017F6	System speaker	OK
0x00001901-0x0000196F	System speaker	OK
0x00001978-0x000019CD	System speaker	OK
0x000019D0-0x000019EF	System speaker	OK
0x000019F8-0x00001A77	System speaker	OK
0x00001A80-0x00001AE7	System speaker	OK
0x00001AF0-0x00001AF7	System speaker	OK
0x00001B00-0x00001B77	System speaker	OK
0x00001B80-0x00001BAF	System speaker	OK
0x00001BBC-0x00001BBF	System speaker	OK
0x00001BE0-0x00001BE7	System speaker	OK
0x00001BF6-0x00001BF6	System speaker	OK
0x00001D01-0x00001D6F	System speaker	OK
0x00001D78-0x00001DCD	System speaker	OK
0x00001DD0-0x00001DEF	System speaker	OK
0x00001DF8-0x00001E77	System speaker	OK
0x00001E80-0x00001EE7	System speaker	OK
0x00001EF0-0x00001EF7	System speaker	OK
0x00001F00-0x00001F77	System speaker	OK
0x00001F80-0x00001FAF	System speaker	OK
0x00001FBC-0x00001FBF	System speaker	OK
0x00001FE0-0x00001FE7	System speaker	OK
0x00001FF6-0x00001FF6	System speaker	OK
0x00002F8-0x00002FF	Communications Port (COM2)	OK
0x00000378-0x0000037F	ECP Printer Port (LPT1)	OK
0x00000778-0x0000077F	ECP Printer Port (LPT1)	OK
0x00000060-0x00000060	Standard 101/102-Key or Microsoft Natural PS/2 Keyboard	OK

```

0x00000064-0x00000064 Standard 101/102-Key or Microsoft Natural PS/2
Keyboard OK
0x000003F0-0x000003F5 Standard floppy disk controller OK
0x000003F7-0x000003F7 Standard floppy disk controller OK
0x00001020-0x0000102F Intel(r) 82371AB/EB PCI Bus Master IDE Controller
OK
0x00001000-0x0000101F Intel(r) 82371AB/EB PCI to USB Universal Host
Controller OK
0x000003B0-0x000003BB DEC 21152 PCI to PCI bridge OK
0x000003B0-0x000003BB Console Manager Video Driver OK
0x000003C0-0x000003DF DEC 21152 PCI to PCI bridge OK
0x000003C0-0x000003DF Console Manager Video Driver OK
0x00001400-0x0000140F PCI bus OK
0x00001410-0x0000141F PCI bus OK
0x00001420-0x000017FF PCI bus OK
0x00001440-0x0000147F Intel(R) PRO/100+ Server Adapter (PILA8470B) #2
OK
0x00001800-0x0000180F PCI bus OK
0x00001810-0x0000181F PCI bus OK
0x00001820-0x00001BFF PCI bus OK
0x00001C00-0x00001C0F PCI bus OK
0x00001C10-0x00001C1F PCI bus OK
0x00001C20-0x00001FFF PCI bus OK
0x00002000-0x0000200F PCI bus OK
0x00002010-0x0000201F PCI bus OK
0x00002020-0x000023FF PCI bus OK
0x00002400-0x0000240F PCI bus OK
0x00002410-0x0000241F PCI bus OK
0x00002420-0x000027FF PCI bus OK
0x00002800-0x0000280F PCI bus OK
0x00002810-0x0000281F PCI bus OK
0x00002820-0x00002BFF PCI bus OK
0x00002C00-0x00002C0F PCI bus OK
0x00002C10-0x00002C1F PCI bus OK
0x00002C20-0x0000FFFF PCI bus OK

```

[IRQs]

```

Resource Device Status
IRQ 23 Microsoft ACPI-Compliant System OK
IRQ 0 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) OK

IRQ 0 System timer OK
IRQ 4 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) OK

IRQ 5 Adaptec SCSI Card 39160 - Ultra160 SCSI OK
IRQ 6 Adaptec SCSI Card 39160 - Ultra160 SCSI OK
IRQ 6 Standard floppy disk controller OK
IRQ 8 System CMOS/real time clock OK
IRQ 8 Intel(r) 82371AB/EB PCI to USB Universal Host Controller OK

IRQ 3 Communications Port (COM2) OK
IRQ 12 PS/2 Compatible Mouse OK
IRQ 1 Standard 101/102-Key or Microsoft Natural PS/2 Keyboard OK

IRQ 10 Console Manager control device OK
IRQ 11 cLAN Host Adapter #3 OK
IRQ 28 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) OK

```

```

IRQ 32 Intel(R) PRO/100+ Server Adapter (PILA8470B) #2 OK
IRQ 35 cLAN Host Adapter #4 OK
IRQ 52 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) OK

IRQ 59 cLAN Host Adapter #5 OK
IRQ 76 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) OK

IRQ 83 cLAN Host Adapter OK
IRQ 100 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) OK

IRQ 107 cLAN Host Adapter #8 OK
IRQ 124 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) OK

IRQ 131 cLAN Host Adapter #7 OK
IRQ 148 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) OK

IRQ 155 cLAN Host Adapter #6 OK
IRQ 172 Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) OK

IRQ 179 cLAN Host Adapter #2 OK

```

[Memory]

```

Resource Device Status
0xDE000000-0xDFFFFFFF PCI bus OK
0xDE000000-0xDFFFFFFF PCI standard PCI-to-PCI bridge OK
0xDE000000-0xDFFFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xDF800000-0xDFFFFFFF PCI standard PCI-to-PCI bridge OK
0xDF800000-0xDFFFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xE0000000-0xE1FFFFFF PCI bus OK
0xE0000000-0xE1FFFFFF Adaptec SCSI Card 39160 - Ultra160 SCSI OK

0xE0100000-0xE01FFFFFF PCI standard PCI-to-PCI bridge OK
0xE0100000-0xE01FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xE1800000-0xE1FFFFFF PCI standard PCI-to-PCI bridge OK
0xE1800000-0xE1FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xE0001000-0xE0001FFF Adaptec SCSI Card 39160 - Ultra160 SCSI OK

0xA0000-0xBFFFF PCI bus OK
0xA0000-0xBFFFF DEC 21152 PCI to PCI bridge OK
0xA0000-0xBFFFF Console Manager Video Driver OK
0xC0000-0xDFFFF PCI bus OK
0xE0000-0xFFFF PCI bus OK
0xD6000000-0xDDFFFFFF PCI bus OK
0xD6000000-0xDDFFFFFF cLAN Host Adapter #3 OK
0xD8000000-0xDAFFFFFF DEC 21152 PCI to PCI bridge OK
0xD8000000-0xDAFFFFFF Console Manager Video Driver OK
0xDC000000-0xDDFFFFFF DEC 21152 PCI to PCI bridge OK
0xDC000000-0xDDFFFFFF Console Manager control device OK
0xDA000000-0xDA00FFFF Console Manager Video Driver OK
0xD6020000-0xD603FFFF cLAN Host Adapter #3 OK
0xD6200000-0xD63FFFFF cLAN Host Adapter #3 OK
0xD7000000-0xD7FFFFFFF cLAN Host Adapter #3 OK
0xE2000000-0xE20FFFFFFF PCI bus OK
0xE2100000-0xE3FFFFFFF PCI bus OK

```

```

0xE2100000-0xE3FFFFFF PCI standard PCI-to-PCI bridge OK
0xE2100000-0xE3FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xE3800000-0xE3FFFFFF PCI standard PCI-to-PCI bridge OK
0xE3800000-0xE3FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xE4000000-0xE5FFFFFF PCI bus OK
0xE4000000-0xE5FFFFFF cLAN Host Adapter #4 OK
0xE4010000-0xE4010FFF Intel(R) PRO/100+ Server Adapter (PILA8470B) #2
OK
0xE4100000-0xE41FFFFFF Intel(R) PRO/100+ Server Adapter (PILA8470B) #2
OK
0xE4020000-0xE403FFFF cLAN Host Adapter #4 OK
0xE4200000-0xE43FFFFF cLAN Host Adapter #4 OK
0xE5000000-0xE5FFFFFF cLAN Host Adapter #4 OK
0xE6000000-0xE60FFFFFF PCI bus OK
0xE6100000-0xE7FFFFFF PCI bus OK
0xE6100000-0xE7FFFFFF PCI standard PCI-to-PCI bridge OK
0xE6100000-0xE7FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xE7800000-0xE7FFFFFF PCI standard PCI-to-PCI bridge OK
0xE7800000-0xE7FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xE8000000-0xE9FFFFFF PCI bus OK
0xE8000000-0xE9FFFFFF cLAN Host Adapter #5 OK
0xE8020000-0xE803FFFF cLAN Host Adapter #5 OK
0xE8200000-0xE83FFFFF cLAN Host Adapter #5 OK
0xE9000000-0xE9FFFFFF cLAN Host Adapter #5 OK
0xEA000000-0xEA0FFFFFF PCI bus OK
0xEA100000-0xEBFFFFFF PCI bus OK
0xEA100000-0xEBFFFFFF PCI standard PCI-to-PCI bridge OK
0xEA100000-0xEBFFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xEB800000-0xEBFFFFFF PCI standard PCI-to-PCI bridge OK
0xEB800000-0xEBFFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xEC000000-0xEDFFFFFF PCI bus OK
0xEC000000-0xEDFFFFFF cLAN Host Adapter OK
0xEC020000-0xEC03FFFF cLAN Host Adapter OK
0xEC200000-0xEC3FFFFF cLAN Host Adapter OK
0xED000000-0xEDFFFFFF cLAN Host Adapter OK
0xEE000000-0xEE0FFFFFF PCI bus OK
0xEE100000-0xEEFFFFFF PCI bus OK
0xEE100000-0xEEFFFFFF PCI standard PCI-to-PCI bridge OK
0xEE100000-0xEEFFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xEF800000-0xEFFFFFFF PCI standard PCI-to-PCI bridge OK
0xEF800000-0xEFFFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xF0000000-0xF1FFFFFF PCI bus OK
0xF0000000-0xF1FFFFFF cLAN Host Adapter #8 OK
0xF0020000-0xF003FFFF cLAN Host Adapter #8 OK
0xF0200000-0xF03FFFFF cLAN Host Adapter #8 OK
0xF1000000-0xF1FFFFFF cLAN Host Adapter #8 OK
0xF2000000-0xF20FFFFFF PCI bus OK
0xF2100000-0xF3FFFFFF PCI bus OK
0xF2100000-0xF3FFFFFF PCI standard PCI-to-PCI bridge OK
0xF2100000-0xF3FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK

```

```

0xF3800000-0xF3FFFFFF PCI standard PCI-to-PCI bridge OK
0xF3800000-0xF3FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xF4000000-0xF5FFFFFF PCI bus OK
0xF4000000-0xF5FFFFFF cLAN Host Adapter #7 OK
0xF4020000-0xF403FFFF cLAN Host Adapter #7 OK
0xF4200000-0xF43FFFFF cLAN Host Adapter #7 OK
0xF5000000-0xF5FFFFFF cLAN Host Adapter #7 OK
0xF6000000-0xF60FFFFFF PCI bus OK
0xF6100000-0xF7FFFFFF PCI bus OK
0xF6100000-0xF7FFFFFF PCI standard PCI-to-PCI bridge OK
0xF6100000-0xF7FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xF7800000-0xF7FFFFFF PCI standard PCI-to-PCI bridge OK
0xF7800000-0xF7FFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xF8000000-0xF9FFFFFF PCI bus OK
0xF8000000-0xF9FFFFFF cLAN Host Adapter #6 OK
0xF8020000-0xF803FFFF cLAN Host Adapter #6 OK
0xF8200000-0xF83FFFFF cLAN Host Adapter #6 OK
0xF9000000-0xF9FFFFFF cLAN Host Adapter #6 OK
0xFA000000-0xFA0FFFFFF PCI bus OK
0xFA100000-0xFBFFFFFF PCI bus OK
0xFA100000-0xFBFFFFFF PCI standard PCI-to-PCI bridge OK
0xFA100000-0xFBFFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xFB800000-0xFBFFFFFF PCI standard PCI-to-PCI bridge OK
0xFB800000-0xFBFFFFFF Unisys IntelliFibre Fibre Channel Adapter
Driver(ifXp) OK
0xFC000000-0xFDFFFFFF PCI bus OK
0xFC000000-0xFDFFFFFF cLAN Host Adapter #2 OK
0xFC020000-0xFC03FFFF cLAN Host Adapter #2 OK
0xFC200000-0xFC3FFFFF cLAN Host Adapter #2 OK
0xFD000000-0xFDFFFFFF cLAN Host Adapter #2 OK

```

[Components]

[Multimedia]

[Audio Codecs]

CODEC	Manufacturer	Description	Status	File	Version	Size
		Creation Date				
c:\windows\system32\msadp32.acm	Microsoft Corporation		OK			
1930)	C:\WINDOWS\system32\MSADP32.ACM	14.50 KB (14,848 bytes)		5.2.3694.0 (dnsrv.021010-10/11/2002 5:00 AM)		
c:\windows\system32\imaadp32.acm	Microsoft Corporation		OK			
1930)	C:\WINDOWS\system32\IMAADP32.ACM	15.50 KB (15,872 bytes)		5.2.3694.0 (dnsrv.021010-10/11/2002 5:00 AM)		
c:\windows\system32\msgsm32.acm	Microsoft Corporation		OK			
1930)	C:\WINDOWS\system32\MSGSM32.ACM	20.50 KB (20,992 bytes)		5.2.3694.0 (dnsrv.021010-10/11/2002 5:00 AM)		
c:\windows\system32\msg711.acm	Microsoft Corporation		OK			
1930)	C:\WINDOWS\system32\MSG711.ACM	10.00 KB (10,240 bytes)		5.2.3694.0 (dnsrv.021010-10/11/2002 5:00 AM)		

```

c:\windows\system32\tssoft32.acm      DSP GROUP, INC.          OK
C:\WINDOWS\system32\TSSOFT32.ACM    1.01  9.50 KB (9,728 bytes)
10/11/2002 5:00 AM
c:\windows\system32\msaud32.acm      Microsoft Corporation Windows Media
Audio Codec OK C:\WINDOWS\system32\MSAUD32.ACM 8.00.00.4487
288.00 KB (294,912 bytes) 10/11/2002 5:00 AM
c:\windows\system32\msg723.acm      Microsoft Corporation      OK
C:\WINDOWS\system32\MSG723.ACM    4.4.4000 116.00 KB
(118,784 bytes) 10/17/2002 2:28 PM
c:\windows\system32\sl_anet.acm      Sipro Lab Telecom Inc. Sipro Lab
Telecom Audio Codec OK C:\WINDOWS\system32\SL_ANET.ACM 3.02
84.00 KB (86,016 bytes) 10/11/2002 5:00 AM

```

[Video Codecs]

CODEC	Manufacturer	Description	Status	File	Version	Size
		Creation Date				
c:\windows\system32\iyuv_32.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\IYUV_32.DLL		5.2.3694.0 (dnsrv.021010-1930)		45.00 KB (46,080 bytes)
						10/10/2002 3:47 PM
c:\windows\system32\msh263.drv	Microsoft Corporation		OK			
		C:\WINDOWS\system32\MSH263.DRV		4.4.4000		284.00 KB
						10/10/2002 3:45 PM
c:\windows\system32\msrle32.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\MSRLE32.DLL		5.2.3694.0 (dnsrv.021010-1930)		10.50 KB (10,752 bytes)
						10/11/2002 5:00 AM
c:\windows\system32\msvidc32.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\MSVIDC32.DLL		5.2.3694.0 (dnsrv.021010-1930)		26.50 KB (27,136 bytes)
						10/11/2002 5:00 AM
c:\windows\system32\msyuv.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\MSYUV.DLL		5.2.3694.0 (dnsrv.021010-1930)		16.50 KB (16,896 bytes)
						10/10/2002 3:48 PM
c:\windows\system32\ir32_32.dll	Not Available		OK			
		C:\WINDOWS\system32\IR32_32.DLL		Not Available		194.50 KB
						10/11/2002 5:00 AM
c:\windows\system32\iccvid.dll	Radius Inc.		OK			
		C:\WINDOWS\system32\ICCVID.DLL		1.10.0.6		108.00 KB
						10/11/2002 5:00 AM
c:\windows\system32\msh261.drv	Microsoft Corporation		OK			
		C:\WINDOWS\system32\MSH261.DRV		4.4.4000		180.00 KB
						10/17/2002 2:28 PM
c:\windows\system32\tsbyuv.dll	Microsoft Corporation		OK			
		C:\WINDOWS\system32\TSBYUV.DLL		5.2.3694.0 (dnsrv.021010-1930)		8.00 KB (8,192 bytes)
						10/10/2002 3:48 PM

[CD-ROM]

```

Item      Value
Drive     E:
Description CD-ROM Drive
Media Loaded No
Media Type CD-ROM
Name      TOSHIBA CD-ROM XM-6401TA SCSI CdRom Device
Manufacturer (Standard CD-ROM drives)
Status OK
Transfer Rate Not Available
SCSI Target ID 5
PNP Device ID SCSI\CDROM&VEN_TOSHIBA&PROD_CD-ROM_XM-6401TA&REV_1001\4&B87A6AC&0&050

```

[Sound Device]

Item Value

[Display]

Item Value

```

Name      Console Manager Video Driver
PNP Device ID PCI\VEN_1013&DEV_00D6&SUBSYS_80D61018&REV_03\4&13B26DF1&0&1010

```

Adapter Type Cirrus Logic 5465, Unisys Corporation compatible

Adapter Description Console Manager Video Driver

Adapter RAM 2.00 MB (2,097,152 bytes)

Installed Drivers unesconf.dll

Driver Version 6.0.3.25

INF File oem2.inf (unescons section)

Color Planes 1

Color Table Entries 256

Resolution 800 x 600 x 72 hertz

Bits/Pixel 8

Memory Address 0xD8000000-0xDA0FFFFF

Memory Address 0xDA000000-0xDA00FFFF

I/O Port 0x000003B0-0x000003BB

I/O Port 0x000003C0-0x000003DF

Memory Address 0xA0000-0xBFFFF

[Infrared]

Item Value

[Input]

[Keyboard]

Item Value

Description Standard 101/102-Key or Microsoft Natural PS/2 Keyboard

Name Enhanced (101- or 102-key)

Layout 00000409

PNP Device ID ACPI\PNP0303\D

Number of Function Keys 12

I/O Port 0x00000060-0x00000060

I/O Port 0x00000064-0x00000064

IRQ Channel IRQ 1

[Pointing Device]

Item Value

Hardware Type PS/2 Compatible Mouse

Number of Buttons 3

Status OK

PNP Device ID ACPI\PNP0F13\D

Power Management Supported No

Double Click Threshold 6

Handedness Right Handed Operation

IRQ Channel IRQ 12

[Modem]

Item Value

[Network]

[Adapter]

Item Value

Name [00000001] Intel(R) PRO/100+ Server Adapter (PILA8470B)
Adapter Type Not Available
Product Type Intel(R) PRO/100+ Server Adapter (PILA8470B)
Installed Yes
PNP Device ID Not Available
Last Reset 12/2/2002 7:03 AM
Index 1
Service Name E100B
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000002] RAS Async Adapter
Adapter Type Not Available
Product Type RAS Async Adapter
Installed Yes
PNP Device ID Not Available
Last Reset 12/2/2002 7:03 AM
Index 2
Service Name AsyncMac
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000003] WAN Miniport (L2TP)
Adapter Type Not Available
Product Type WAN Miniport (L2TP)
Installed Yes
PNP Device ID ROOT\MS_L2TPMINIPORT\0000
Last Reset 12/2/2002 7:03 AM
Index 3
Service Name Rasl2tp
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No

DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000004] WAN Miniport (PPTP)
Adapter Type Wide Area Network (WAN)
Product Type WAN Miniport (PPTP)
Installed Yes
PNP Device ID ROOT\MS_PPTPMINIPORT\0000
Last Reset 12/2/2002 7:03 AM
Index 4
Service Name PptpMiniport
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 50:50:54:50:30:30

Name [00000005] WAN Miniport (PPPOE)
Adapter Type Wide Area Network (WAN)
Product Type WAN Miniport (PPPOE)
Installed Yes
PNP Device ID ROOT\MS_PPPOEMINIPORT\0000
Last Reset 12/2/2002 7:03 AM
Index 5
Service Name RasPppoe
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 33:50:6F:45:30:30

Name [00000006] Direct Parallel
Adapter Type Not Available
Product Type Direct Parallel
Installed Yes
PNP Device ID ROOT\MS_PTMINIPORT\0000
Last Reset 12/2/2002 7:03 AM
Index 6
Service Name Raspti
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000007] WAN Miniport (IP)
Adapter Type Not Available
Product Type WAN Miniport (IP)

Installed Yes
PNP Device ID ROOT\MS_NDISWANIP\0000
Last Reset 12/2/2002 7:03 AM
Index 7
Service Name NdisWan
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available

Name [00000008] cLAN Host Adapter
Adapter Type Ethernet 802.3
Product Type cLAN Host Adapter
Installed Yes
PNP Device ID
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&146CA173&0&18

Last Reset 12/2/2002 7:03 AM
Index 8
Service Name GNINDIS
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:90:FA:00:1C:0F
Memory Address 0xEC020000-0xEC03FFFF
Memory Address 0xEC200000-0xEC3FFFFF
Memory Address 0xED000000-0xEDFFFFFF
Memory Address 0xEC000000-0xEDFFFFFF
IRQ Channel IRQ 83

Name [00000009] cLAN Host Adapter
Adapter Type Ethernet 802.3
Product Type cLAN Host Adapter
Installed Yes
PNP Device ID
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&1145A0B8&0&18

Last Reset 12/2/2002 7:03 AM
Index 9
Service Name GNINDIS
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:90:FA:00:1C:8C
Memory Address 0xFC020000-0xFC03FFFF
Memory Address 0xFC200000-0xFC3FFFFF
Memory Address 0xFD000000-0xFDFFFFFF

Memory Address 0xFC000000-0xFDFFFFFF
IRQ Channel IRQ 179

Name [00000010] Intel(R) PRO/100+ Server Adapter (PILA8470B)
Adapter Type Ethernet 802.3
Product Type Intel(R) PRO/100+ Server Adapter (PILA8470B)
Installed Yes
PNP Device ID
PCI\VEN_8086&DEV_1229&SUBSYS_100C8086&REV_08\3&20FEA912&0&00

Last Reset 12/2/2002 7:03 AM
Index 10
Service Name E100B
IP Address 192.59.13.213
IP Subnet 255.255.255.0
Default IP Gateway 192.59.13.250
DHCP Enabled No
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:D0:B7:BF:FF:2E
Memory Address 0xE4010000-0xE4010FFF
I/O Port 0x00001440-0x0000147F
Memory Address 0xE4100000-0xE41FFFFFFF
IRQ Channel IRQ 32

Name [00000011] cLAN Host Adapter
Adapter Type Ethernet 802.3
Product Type cLAN Host Adapter
Installed Yes
PNP Device ID
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&172E68DD&0&18

Last Reset 12/2/2002 7:03 AM
Index 11
Service Name GNINDIS
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:90:FA:00:1C:5D
Memory Address 0xD6020000-0xD603FFFF
Memory Address 0xD6200000-0xD63FFFFF
Memory Address 0xD7000000-0xD7FFFFFFF
Memory Address 0xD6000000-0xDDFFFFFFF
IRQ Channel IRQ 11

Name [00000012] cLAN Host Adapter
Adapter Type Ethernet 802.3
Product Type cLAN Host Adapter
Installed Yes
PNP Device ID
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&20FEA912&0&18

Last Reset 12/2/2002 7:03 AM
Index 12

Service Name GNINDIS
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:90:FA:00:1C:34
Memory Address 0xE4020000-0xE403FFFF
Memory Address 0xE4200000-0xE43FFFFF
Memory Address 0xE5000000-0xE5FFFFFF
Memory Address 0xE4000000-0xE5FFFFFF
IRQ Channel IRQ 35

Name [0000013] cLAN Host Adapter
Adapter Type Ethernet 802.3
Product Type cLAN Host Adapter
Installed Yes
PNP Device ID
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&23C0707C&0&18

Last Reset 12/2/2002 7:03 AM
Index 13
Service Name GNINDIS
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:90:FA:00:1C:15
Memory Address 0xE8020000-0xE803FFFF
Memory Address 0xE8200000-0xE83FFFFF
Memory Address 0xE9000000-0xE9FFFFFF
Memory Address 0xE8000000-0xE9FFFFFF
IRQ Channel IRQ 59

Name [0000014] cLAN Host Adapter
Adapter Type Ethernet 802.3
Product Type cLAN Host Adapter
Installed Yes
PNP Device ID PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&3BCEF44&0&18

Last Reset 12/2/2002 7:03 AM
Index 14
Service Name GNINDIS
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:90:FA:00:15:9A
Memory Address 0xF8020000-0xF803FFFF
Memory Address 0xF8200000-0xF83FFFFF
Memory Address 0xF9000000-0xF9FFFFFF

Memory Address 0xF8000000-0xF9FFFFFF
IRQ Channel IRQ 155

Name [0000015] cLAN Host Adapter
Adapter Type Ethernet 802.3
Product Type cLAN Host Adapter
Installed Yes
PNP Device ID PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&72AA75C&0&18

Last Reset 12/2/2002 7:03 AM
Index 15
Service Name GNINDIS
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:90:FA:00:1C:45
Memory Address 0xF4020000-0xF403FFFF
Memory Address 0xF4200000-0xF43FFFFF
Memory Address 0xF5000000-0xF5FFFFFF
Memory Address 0xF4000000-0xF5FFFFFF
IRQ Channel IRQ 131

Name [0000016] cLAN Host Adapter
Adapter Type Ethernet 802.3
Product Type cLAN Host Adapter
Installed Yes
PNP Device ID PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&A985F74&0&18

Last Reset 12/2/2002 7:03 AM
Index 16
Service Name GNINDIS
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled Yes
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:90:FA:00:14:BC
Memory Address 0xF0020000-0xF003FFFF
Memory Address 0xF0200000-0xF03FFFFF
Memory Address 0xF1000000-0xF1FFFFFF
Memory Address 0xF0000000-0xF1FFFFFF
IRQ Channel IRQ 107

[Protocol]

Item	Value
Name	MSAFD Tcpip [TCP/IP]
Connectionless Service	No
Guarantees Delivery	Yes
Guarantees Sequencing	Yes
Maximum Address Size	16 bytes
Maximum Message Size	0 bytes
Message Oriented	No

Minimum Address Size 16 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data Yes
Supports Graceful Closing Yes
Supports Guaranteed Bandwidth No
Supports Multicasting No

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

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

Name RSVP TCP Service Provider
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 16 bytes
Maximum Message Size 0 bytes
Message Oriented No
Minimum Address Size 16 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No

Supports Encryption Yes
Supports Expedited Data Yes
Supports Graceful Closing Yes
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{E6982201-E063-4664-9629-65830C1FE189}] SEQPACKET 11
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{E6982201-E063-4664-9629-65830C1FE189}] DATAGRAM 11
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{D6CF8266-4BFD-464C-8A43-2857F3528707}] SEQPACKET 10
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No

Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{D6CF8266-4BFD-464C-8A43-2857F3528707}] DATAGRAM 10
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{4FE859D0-6823-499A-AAA6-1378490A8118}] SEQPACKET 9
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{4FE859D0-6823-499A-AAA6-1378490A8118}] DATAGRAM 9
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No

Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{262C0B9B-D9ED-473C-A17B-F58BEA1C5710}] SEQPACKET 8
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{262C0B9B-D9ED-473C-A17B-F58BEA1C5710}] DATAGRAM 8
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{F9ED0207-E12C-4AA2-94D7-99BF895450C9}] SEQPACKET 7
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{F9ED0207-E12C-4AA2-94D7-99BF895450C9}] DATAGRAM 7
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)
 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{E2014DE1-5401-4196-98BB-E783296415BE}] SEQPACKET 6
 Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)
 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{E2014DE1-5401-4196-98BB-E783296415BE}] DATAGRAM 6
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)
 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{BFFCBB33-6E21-44E7-87D7-10D58C47BF85}] SEQPACKET 5

Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)
 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{BFFCBB33-6E21-44E7-87D7-10D58C47BF85}] DATAGRAM 5
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)
 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{2B2DA02A-360A-4DBF-965D-8827680AA89C}] SEQPACKET 4
 Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)
 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{2B2DA02A-360A-4DBF-965D-8827680AA89C}] DATAGRAM 4
 Connectionless Service Yes
 Guarantees Delivery No

Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{94C12779-3CD2-4DC7-914C-66C23F96CE3F}] SEQPACKET 3
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{94C12779-3CD2-4DC7-914C-66C23F96CE3F}] DATAGRAM 3
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{B344931C-A78F-4656-8B8A-395E25DB5274}] SEQPACKET 0
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes

Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{B344931C-A78F-4656-8B8A-395E25DB5274}] DATAGRAM 0
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting Yes
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{EF8425FA-6CEA-482D-82EC-C6F2E51A322D}] SEQPACKET 1
Connectionless Service No
Guarantees Delivery Yes
Guarantees Sequencing Yes
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes
Minimum Address Size 20 bytes
Pseudo Stream Oriented No
Supports Broadcasting No
Supports Connect Data No
Supports Disconnect Data No
Supports Encryption No
Supports Expedited Data No
Supports Graceful Closing No
Supports Guaranteed Bandwidth No
Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{EF8425FA-6CEA-482D-82EC-C6F2E51A322D}] DATAGRAM 1
Connectionless Service Yes
Guarantees Delivery No
Guarantees Sequencing No
Maximum Address Size 20 bytes
Maximum Message Size 62.50 KB (64,000 bytes)
Message Oriented Yes

Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{F7D97AB6-2D68-4B27-AD0F-631251AAC9E3}] SEQPACKE 2
 Connectionless Service No
 Guarantees Delivery Yes
 Guarantees Sequencing Yes
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)
 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting No
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{F7D97AB6-2D68-4B27-AD0F-631251AAC9E3}] DATAGRAM 2
 Connectionless Service Yes
 Guarantees Delivery No
 Guarantees Sequencing No
 Maximum Address Size 20 bytes
 Maximum Message Size 62.50 KB (64,000 bytes)
 Message Oriented Yes
 Minimum Address Size 20 bytes
 Pseudo Stream Oriented No
 Supports Broadcasting Yes
 Supports Connect Data No
 Supports Disconnect Data No
 Supports Encryption No
 Supports Expedited Data No
 Supports Graceful Closing No
 Supports Guaranteed Bandwidth No
 Supports Multicasting No

[WinSock]

Item Value
 File c:\windows\system32\winsock.dll
 Size 2.80 KB (2,864 bytes)
 Version 3.10

File c:\windows\system32\wsock32.dll
 Size 21.50 KB (22,016 bytes)
 Version 5.2.3694.0 (dnsrv.021010-1930)

[Ports]

[Serial]

Item	Value
Name	Communications Port (COM2)
Status	OK
PNP Device ID	ACPI\PNP0501\12
Maximum Input Buffer Size	0
Maximum Output Buffer Size	No
Settable Baud Rate	Yes
Settable Data Bits	Yes
Settable Flow Control	Yes
Settable Parity	Yes
Settable Parity Check	Yes
Settable Stop Bits	Yes
Settable RLSD	Yes
Supports RLSD	Yes
Supports 16 Bit Mode	No
Supports Special Characters	No
Baud Rate	9600
Bits/Byte	8
Stop Bits	1
Parity	None
Busy	No
Abort Read/Write on Error	No
Binary Mode Enabled	Yes
Continue Xmit on XOff	No
CTS Outflow Control	No
Discard NULL Bytes	No
DSR Outflow Control	0
DSR Sensitivity	0
DTR Flow Control Type	Enable
EOF Character	0
Error Replace Character	0
Error Replacement Enabled	No
Event Character	0
Parity Check Enabled	No
RTS Flow Control Type	Enable
XOff Character	19
XOffXmit Threshold	512
XOn Character	17
XOnXmit Threshold	2048
XOnXOff InFlow Control	0
XOnXOff OutFlow Control	0
I/O Port	0x000002F8-0x000002FF
IRQ Channel	IRQ 3

[Parallel]

Item	Value
Name	LPT1
PNP Device ID	ACPI\PNP0401\D
I/O Port	0x00000378-0x0000037F
I/O Port	0x00000778-0x0000077F
DMA Channel	Channel 1

[Storage]

[Drives]

Item Value
 Drive A:
 Description 3 1/2 Inch Floppy Drive

Drive C:
 Description Local Fixed Disk
 Compressed No
 File System NTFS
 Size 33.93 GB (36,429,729,792 bytes)
 Free Space 25.91 GB (27,825,692,672 bytes)
 Volume Name
 Volume Serial Number 4C3852A0

Drive E:
 Description CD-ROM Disc

[Disks]

Item Value
 Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 5
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #72, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #71, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #71, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #71, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841

Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 5
 SCSI Logical Unit 1
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #71, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #71, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #71, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #71, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 5
 SCSI Logical Unit 2
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #70, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #70, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #70, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #70, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation

Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 3
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #69, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #69, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #69, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #69, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 11
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #68, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #68, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #68, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #68, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)

Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 12
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #67, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #67, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #67, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #67, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 13
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #66, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #66, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #66, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #66, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 6
 SCSI Logical Unit 4
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #124, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #124, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #124, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #124, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 6
 SCSI Logical Unit 5
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #119, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #119, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #119, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #119, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 6
 SCSI Logical Unit 6
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #116, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #116, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #116, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #116, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 6
 SCSI Logical Unit 7
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #113, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #113, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #113, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #113, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)

Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 6
SCSI Logical Unit 8
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #110, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #110, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #110, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #110, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 6
SCSI Logical Unit 9
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #107, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #107, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #107, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #107, Partition #3

Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 6
SCSI Logical Unit 10
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #105, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #105, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #105, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #105, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #51, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #71, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #71, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes

Partition Disk #71, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 1
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #45, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #45, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #45, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #45, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 2
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #40, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #40, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #40, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)

Partition Starting Offset 9,261,665,280 bytes
Partition Disk #40, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 3
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #35, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #35, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #35, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #35, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 11
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #21, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #21, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #21, Partition #2

Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #21, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 12
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #19, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #19, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #19, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #19, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 13
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #17, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #17, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes

Partition Disk #17, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #17, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 4
SCSI Logical Unit 4
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #87, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #87, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #87, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #87, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 4
SCSI Logical Unit 5
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #86, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #86, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)

Partition Starting Offset 3,183,183,360 bytes
Partition Disk #86, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #86, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 4
SCSI Logical Unit 6
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #84, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #84, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #84, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #84, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 4
SCSI Logical Unit 7
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #81, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #81, Partition #1

Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #81, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #81, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 4
SCSI Logical Unit 8
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #79, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #79, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #79, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #79, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 4
SCSI Logical Unit 9
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #77, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes

Partition Disk #77, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #77, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #77, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 4
SCSI Logical Unit 10
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #76, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #76, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #76, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #76, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #132, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)

Partition Starting Offset 32,256 bytes
Partition Disk #71, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #71, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #71, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 1
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #129, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #129, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #129, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #129, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 5
SCSI Logical Unit 2
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #125, Partition #0

Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #125, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #125, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #125, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 5
 SCSI Logical Unit 3
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #120, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #120, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #120, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #120, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 5
 SCSI Logical Unit 11
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32

Partition Disk #100, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #100, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #100, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #100, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 5
 SCSI Logical Unit 12
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #97, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #97, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #97, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #97, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 5
 SCSI Logical Unit 13
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848

Tracks/Cylinder 32
Partition Disk #94, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #94, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #94, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #94, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 7
SCSI Logical Unit 4
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #65, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #65, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #65, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #65, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 7
SCSI Logical Unit 5
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272

Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #64, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #64, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #64, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #64, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 7
SCSI Logical Unit 6
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #63, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #63, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #63, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #63, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 7
SCSI Logical Unit 7
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464

Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #61, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #61, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #61, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #61, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 7
 SCSI Logical Unit 8
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64

Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32

Partition Disk #58, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #58, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #58, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #58, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 7
 SCSI Logical Unit 9
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)

Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #55, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #55, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #55, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #55, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 7
 SCSI Logical Unit 10
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64

Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32

Partition Disk #50, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #50, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #50, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #50, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 6
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64

Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #133, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #71, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #71, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #71, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 6
SCSI Logical Unit 1
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64

Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #130, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #130, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #130, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #130, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 6
SCSI Logical Unit 2
SCSI Port 0
SCSI Target ID 0

Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #126, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #126, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #126, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #126, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 6
SCSI Logical Unit 3
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64

Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #121, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #121, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #121, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #121, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 6
SCSI Logical Unit 11
SCSI Port 0

SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #101, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #101, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #101, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #101, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 6
 SCSI Logical Unit 12
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64

Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #98, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #98, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #98, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #98, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 6
 SCSI Logical Unit 13

SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #95, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #95, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #95, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #95, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 7
 SCSI Logical Unit 4
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64

Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #62, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #62, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #62, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #62, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 7

SCSI Logical Unit 5
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #60, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #60, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #60, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #60, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 7
 SCSI Logical Unit 6
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #57, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #57, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #57, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #57, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4

SCSI Bus 7
 SCSI Logical Unit 7
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #54, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #54, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #54, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #54, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 7
 SCSI Logical Unit 8
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #49, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #49, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #49, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #49, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk

```

Partitions      4
SCSI Bus        7
SCSI Logical Unit  9
SCSI Port       0
SCSI Target ID  0
Sectors/Track   64
Size           98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors   205,750,272
Total Tracks    3,214,848
Tracks/Cylinder 32
Partition      Disk #44, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition      Disk #44, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition      Disk #44, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition      Disk #44, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

```

```

Description      IntelliFibre Fabric Disk Driver (dasd)
Manufacturer      Unisys Corporation
Model            DGC      RAID 0      0841
Bytes/Sector     512
Media Loaded     Yes
Media Type       Fixed hard disk
Partitions       4
SCSI Bus         7
SCSI Logical Unit 10
SCSI Port        0
SCSI Target ID  0
Sectors/Track   64
Size           98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors   205,750,272
Total Tracks    3,214,848
Tracks/Cylinder 32
Partition      Disk #39, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition      Disk #39, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition      Disk #39, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition      Disk #39, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

```

```

Description      IntelliFibre Fabric Disk Driver (dasd)
Manufacturer      Unisys Corporation
Model            DGC      RAID 0      0841
Bytes/Sector     512
Media Loaded     Yes

```

```

Media Type       Fixed hard disk
Partitions       4
SCSI Bus         250
SCSI Logical Unit 0
SCSI Port        0
SCSI Target ID  0
Sectors/Track   64
Size           98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors   205,750,272
Total Tracks    3,214,848
Tracks/Cylinder 32
Partition      Disk #93, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition      Disk #71, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition      Disk #71, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition      Disk #71, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

```

```

Description      IntelliFibre Fabric Disk Driver (dasd)
Manufacturer      Unisys Corporation
Model            DGC      RAID 0      0841
Bytes/Sector     512
Media Loaded     Yes
Media Type       Fixed hard disk
Partitions       4
SCSI Bus         250
SCSI Logical Unit 1
SCSI Port        0
SCSI Target ID  0
Sectors/Track   64
Size           98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors   205,750,272
Total Tracks    3,214,848
Tracks/Cylinder 32
Partition      Disk #92, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition      Disk #92, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition      Disk #92, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition      Disk #92, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

```

```

Description      IntelliFibre Fabric Disk Driver (dasd)
Manufacturer      Unisys Corporation
Model            DGC      RAID 0      0841
Bytes/Sector     512

```

Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 250
 SCSI Logical Unit 2
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #91, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #91, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #91, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #91, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 250
 SCSI Logical Unit 3
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #90, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #90, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #90, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #90, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841

Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 250
 SCSI Logical Unit 11
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #83, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #83, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #83, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #83, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 250
 SCSI Logical Unit 12
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #80, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #80, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #80, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #80, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation

Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 250
 SCSI Logical Unit 13
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #78, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #78, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #78, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #78, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 4
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #32, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #32, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #32, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #32, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)

Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 5
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #30, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #30, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #30, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #30, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 6
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #28, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #28, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #28, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #28, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 7
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #26, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #26, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #26, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #26, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 8
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #25, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #25, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #25, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #25, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 9
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #24, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #24, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #24, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #24, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 10
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #23, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #23, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #23, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #23, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)

Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 251
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #16, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #71, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #71, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #71, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 251
SCSI Logical Unit 1
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #15, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #15, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #15, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #15, Partition #3

Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 251
SCSI Logical Unit 2
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #14, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #14, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #14, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #14, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 251
SCSI Logical Unit 3
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #13, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #13, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #13, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes

Partition Disk #13, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 251
SCSI Logical Unit 11
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #12, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #12, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #12, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #12, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 251
SCSI Logical Unit 12
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #11, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #11, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #11, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)

Partition Starting Offset 9,261,665,280 bytes
Partition Disk #11, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 251
SCSI Logical Unit 13
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #10, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #10, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #10, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #10, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 247
SCSI Logical Unit 4
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #59, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #59, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #59, Partition #2

Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #59, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 247
SCSI Logical Unit 5
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #56, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #56, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #56, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #56, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 247
SCSI Logical Unit 6
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #53, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #53, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes

Partition Disk #53, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #53, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 247
SCSI Logical Unit 7
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #48, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #48, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #48, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #48, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 247
SCSI Logical Unit 8
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #43, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #43, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)

Partition Starting Offset 3,183,183,360 bytes
Partition Disk #43, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #43, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 247
SCSI Logical Unit 9
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #38, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #38, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #38, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #38, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 247
SCSI Logical Unit 10
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #34, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #34, Partition #1

Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #34, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #34, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 249
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #134, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #71, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #71, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #71, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 249
SCSI Logical Unit 1
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #131, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes

Partition Disk #131, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #131, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #131, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 2
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #127, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #127, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #127, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #127, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 3
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #122, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)

Partition Starting Offset 32,256 bytes
 Partition Disk #122, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #122, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #122, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 11
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #102, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #102, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #102, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #102, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 12
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #99, Partition #0

Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #99, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #99, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #99, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 13
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #96, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #96, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #96, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #96, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 251
 SCSI Logical Unit 4
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32

Partition Disk #117, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #117, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #117, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #117, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 251
 SCSI Logical Unit 5
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #114, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #114, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #114, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #114, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 251
 SCSI Logical Unit 6
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848

Tracks/Cylinder 32
 Partition Disk #111, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #111, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #111, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #111, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 251
 SCSI Logical Unit 7
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #108, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #108, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #108, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #108, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 251
 SCSI Logical Unit 8
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272

Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #106, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #106, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #106, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #106, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 251
 SCSI Logical Unit 9
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #104, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #104, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #104, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #104, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 251
 SCSI Logical Unit 10
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464

Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #103, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #103, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #103, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #103, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 2
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 114.46 GB (122,901,495,808 bytes)
 Total Cylinders 117,208
 Total Sectors 240,041,984
 Total Tracks 3,750,656
 Tracks/Cylinder 32
 Partition Disk #128, Partition #0
 Partition Size 2.96 GB (3,178,201,088 bytes)
 Partition Starting Offset 32,768 bytes
 Partition Disk #128, Partition #1
 Partition Size 5.65 GB (6,071,255,040 bytes)
 Partition Starting Offset 3,178,233,856 bytes
 Partition Disk #128, Partition #2
 Partition Size 3.57 GB (3,837,788,160 bytes)
 Partition Starting Offset 9,249,488,896 bytes
 Partition Disk #128, Partition #3
 Partition Size 102.27 GB (109,813,170,176 bytes)
 Partition Starting Offset 13,087,277,056 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 3
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 114.46 GB (122,901,495,808 bytes)

Total Cylinders 117,208
 Total Sectors 240,041,984
 Total Tracks 3,750,656
 Tracks/Cylinder 32
 Partition Disk #123, Partition #0
 Partition Size 2.96 GB (3,178,201,088 bytes)
 Partition Starting Offset 32,768 bytes
 Partition Disk #123, Partition #1
 Partition Size 5.65 GB (6,071,255,040 bytes)
 Partition Starting Offset 3,178,233,856 bytes
 Partition Disk #123, Partition #2
 Partition Size 3.57 GB (3,837,788,160 bytes)
 Partition Starting Offset 9,249,488,896 bytes
 Partition Disk #123, Partition #3
 Partition Size 102.27 GB (109,813,170,176 bytes)
 Partition Starting Offset 13,087,277,056 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 4
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 114.46 GB (122,901,495,808 bytes)
 Total Cylinders 117,208
 Total Sectors 240,041,984
 Total Tracks 3,750,656
 Tracks/Cylinder 32
 Partition Disk #118, Partition #0
 Partition Size 2.96 GB (3,178,201,088 bytes)
 Partition Starting Offset 32,768 bytes
 Partition Disk #118, Partition #1
 Partition Size 5.65 GB (6,071,255,040 bytes)
 Partition Starting Offset 3,178,233,856 bytes
 Partition Disk #118, Partition #2
 Partition Size 3.57 GB (3,837,788,160 bytes)
 Partition Starting Offset 9,249,488,896 bytes
 Partition Disk #118, Partition #3
 Partition Size 102.27 GB (109,813,170,176 bytes)
 Partition Starting Offset 13,087,277,056 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 5
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64

Size 114.46 GB (122,901,495,808 bytes)
 Total Cylinders 117,208
 Total Sectors 240,041,984
 Total Tracks 3,750,656
 Tracks/Cylinder 32
 Partition Disk #115, Partition #0
 Partition Size 2.96 GB (3,178,201,088 bytes)
 Partition Starting Offset 32,768 bytes
 Partition Disk #115, Partition #1
 Partition Size 5.65 GB (6,071,255,040 bytes)
 Partition Starting Offset 3,178,233,856 bytes
 Partition Disk #115, Partition #2
 Partition Size 3.57 GB (3,837,788,160 bytes)
 Partition Starting Offset 9,249,488,896 bytes
 Partition Disk #115, Partition #3
 Partition Size 102.27 GB (109,813,170,176 bytes)
 Partition Starting Offset 13,087,277,056 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 6
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #112, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #71, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #71, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #71, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 7
 SCSI Port 0
 SCSI Target ID 0

Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #109, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #71, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #71, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #71, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #52, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #71, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #71, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #71, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 249
 SCSI Logical Unit 1
 SCSI Port 0

SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #47, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #47, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #47, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #47, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 249
SCSI Logical Unit 2
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64

Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #42, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #42, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #42, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #42, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 249
SCSI Logical Unit 3

SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #37, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #37, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #37, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #37, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 249
SCSI Logical Unit 11
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64

Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #22, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #71, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #71, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #71, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 249

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SCSI Logical Unit      12
SCSI Port              0
SCSI Target ID        0
Sectors/Track         64
Size                   98.11 GB (105,344,139,264 bytes)
Total Cylinders        100,464
Total Sectors          205,750,272
Total Tracks           3,214,848
Tracks/Cylinder        32
Partition              Disk #20, Partition #0
Partition Size         2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition              Disk #20, Partition #1
Partition Size         5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition              Disk #20, Partition #2
Partition Size         3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition              Disk #20, Partition #3
Partition Size         85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

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Description           IntelliFibre Fabric Disk Driver (dasd)
Manufacturer           Unisys Corporation
Model DGC              RAID 0          0841
Bytes/Sector          512
Media Loaded           Yes
Media Type             Fixed hard disk
Partitions             4
SCSI Bus               249
SCSI Logical Unit      13
SCSI Port              0
SCSI Target ID        0
Sectors/Track         64
Size                   98.11 GB (105,344,139,264 bytes)
Total Cylinders        100,464
Total Sectors          205,750,272
Total Tracks           3,214,848
Tracks/Cylinder        32
Partition              Disk #18, Partition #0
Partition Size         2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition              Disk #18, Partition #1
Partition Size         5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition              Disk #18, Partition #2
Partition Size         3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition              Disk #18, Partition #3
Partition Size         85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

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Description           IntelliFibre Fabric Disk Driver (dasd)
Manufacturer           Unisys Corporation
Model DGC              RAID 0          0841
Bytes/Sector          512
Media Loaded           Yes
Media Type             Fixed hard disk
Partitions             4

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```

SCSI Bus               247
SCSI Logical Unit      4
SCSI Port              0
SCSI Target ID        0
Sectors/Track         64
Size                   98.11 GB (105,344,139,264 bytes)
Total Cylinders        100,464
Total Sectors          205,750,272
Total Tracks           3,214,848
Tracks/Cylinder        32
Partition              Disk #9, Partition #0
Partition Size         2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition              Disk #9, Partition #1
Partition Size         5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition              Disk #9, Partition #2
Partition Size         3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition              Disk #9, Partition #3
Partition Size         85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

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```

Description           IntelliFibre Fabric Disk Driver (dasd)
Manufacturer           Unisys Corporation
Model DGC              RAID 0          0841
Bytes/Sector          512
Media Loaded           Yes
Media Type             Fixed hard disk
Partitions             4
SCSI Bus               247
SCSI Logical Unit      5
SCSI Port              0
SCSI Target ID        0
Sectors/Track         64
Size                   98.11 GB (105,344,139,264 bytes)
Total Cylinders        100,464
Total Sectors          205,750,272
Total Tracks           3,214,848
Tracks/Cylinder        32
Partition              Disk #8, Partition #0
Partition Size         2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition              Disk #8, Partition #1
Partition Size         5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition              Disk #8, Partition #2
Partition Size         3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition              Disk #8, Partition #3
Partition Size         85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

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Description           IntelliFibre Fabric Disk Driver (dasd)
Manufacturer           Unisys Corporation
Model DGC              RAID 0          0841
Bytes/Sector          512
Media Loaded           Yes
Media Type             Fixed hard disk

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```

Partitions      4
SCSI Bus       247
SCSI Logical Unit 6
SCSI Port      0
SCSI Target ID 0
Sectors/Track  64
Size          98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors  205,750,272
Total Tracks   3,214,848
Tracks/Cylinder 32
Partition      Disk #7, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition      Disk #7, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition      Disk #7, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition      Disk #7, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

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Description    IntelliFibre Fabric Disk Driver (dasd)
Manufacturer   Unisys Corporation
Model         DGC      RAID 0      0841
Bytes/Sector   512
Media Loaded   Yes
Media Type     Fixed hard disk
Partitions     4
SCSI Bus      247
SCSI Logical Unit 7
SCSI Port     0
SCSI Target ID 0
Sectors/Track 64
Size          98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors  205,750,272
Total Tracks   3,214,848
Tracks/Cylinder 32
Partition      Disk #6, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition      Disk #6, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition      Disk #6, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition      Disk #6, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

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Description    IntelliFibre Fabric Disk Driver (dasd)
Manufacturer   Unisys Corporation
Model         DGC      RAID 0      0841
Bytes/Sector   512
Media Loaded   Yes

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Media Type     Fixed hard disk
Partitions     4
SCSI Bus      247
SCSI Logical Unit 8
SCSI Port     0
SCSI Target ID 0
Sectors/Track 64
Size          98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors  205,750,272
Total Tracks   3,214,848
Tracks/Cylinder 32
Partition      Disk #5, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition      Disk #5, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition      Disk #5, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition      Disk #5, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

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```

Description    IntelliFibre Fabric Disk Driver (dasd)
Manufacturer   Unisys Corporation
Model         DGC      RAID 0      0841
Bytes/Sector   512
Media Loaded   Yes
Media Type     Fixed hard disk
Partitions     4
SCSI Bus      247
SCSI Logical Unit 9
SCSI Port     0
SCSI Target ID 0
Sectors/Track 64
Size          98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors  205,750,272
Total Tracks   3,214,848
Tracks/Cylinder 32
Partition      Disk #4, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition      Disk #4, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition      Disk #4, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition      Disk #4, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

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Description    IntelliFibre Fabric Disk Driver (dasd)
Manufacturer   Unisys Corporation
Model         DGC      RAID 0      0841
Bytes/Sector   512

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Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 247
 SCSI Logical Unit 10
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #3, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #3, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #3, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #3, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 247
 SCSI Logical Unit 0
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #89, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #71, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #71, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #71, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841

Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 247
 SCSI Logical Unit 1
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #88, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #88, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #88, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #88, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 247
 SCSI Logical Unit 2
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #85, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #85, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #85, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #85, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation

Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 247
 SCSI Logical Unit 3
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #82, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #82, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #82, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #82, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 247
 SCSI Logical Unit 11
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #75, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #75, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #75, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #75, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)

Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 247
 SCSI Logical Unit 12
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #74, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #74, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #74, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #74, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 247
 SCSI Logical Unit 13
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #73, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #73, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #73, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #73, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 4
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #46, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #46, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #46, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #46, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 5
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #41, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #41, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #41, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #41, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 6
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #36, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #36, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #36, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #36, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)
 Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
 Manufacturer Unisys Corporation
 Model DGC RAID 0 0841
 Bytes/Sector 512
 Media Loaded Yes
 Media Type Fixed hard disk
 Partitions 4
 SCSI Bus 248
 SCSI Logical Unit 7
 SCSI Port 0
 SCSI Target ID 0
 Sectors/Track 64
 Size 98.11 GB (105,344,139,264 bytes)
 Total Cylinders 100,464
 Total Sectors 205,750,272
 Total Tracks 3,214,848
 Tracks/Cylinder 32
 Partition Disk #33, Partition #0
 Partition Size 2.96 GB (3,183,151,104 bytes)
 Partition Starting Offset 32,256 bytes
 Partition Disk #33, Partition #1
 Partition Size 5.66 GB (6,078,481,920 bytes)
 Partition Starting Offset 3,183,183,360 bytes
 Partition Disk #33, Partition #2
 Partition Size 3.58 GB (3,841,205,760 bytes)
 Partition Starting Offset 9,261,665,280 bytes
 Partition Disk #33, Partition #3
 Partition Size 85.90 GB (92,238,289,920 bytes)

Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 248
SCSI Logical Unit 8
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #31, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #31, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #31, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #31, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 248
SCSI Logical Unit 9
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #29, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #29, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #29, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #29, Partition #3

Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 0 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 4
SCSI Bus 248
SCSI Logical Unit 10
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 98.11 GB (105,344,139,264 bytes)
Total Cylinders 100,464
Total Sectors 205,750,272
Total Tracks 3,214,848
Tracks/Cylinder 32
Partition Disk #27, Partition #0
Partition Size 2.96 GB (3,183,151,104 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #27, Partition #1
Partition Size 5.66 GB (6,078,481,920 bytes)
Partition Starting Offset 3,183,183,360 bytes
Partition Disk #27, Partition #2
Partition Size 3.58 GB (3,841,205,760 bytes)
Partition Starting Offset 9,261,665,280 bytes
Partition Disk #27, Partition #3
Partition Size 85.90 GB (92,238,289,920 bytes)
Partition Starting Offset 13,102,871,040 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 10 0841
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus 245
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 261.98 GB (281,301,483,520 bytes)
Total Cylinders 268,270
Total Sectors 549,416,960
Total Tracks 8,584,640
Tracks/Cylinder 32
Partition Disk #2, Partition #0
Partition Size 261.98 GB (281,300,402,176 bytes)
Partition Starting Offset 32,768 bytes

Description IntelliFibre Fabric Disk Driver (dasd)
Manufacturer Unisys Corporation
Model DGC RAID 10 0841
Bytes/Sector 512
Media Loaded Yes

Media Type Fixed hard disk
Partitions 1
SCSI Bus 245
SCSI Logical Unit 1
SCSI Port 0
SCSI Target ID 0
Sectors/Track 64
Size 261.98 GB (281,301,483,520 bytes)
Total Cylinders 268,270
Total Sectors 549,416,960
Total Tracks 8,584,640
Tracks/Cylinder 32
Partition Disk #1, Partition #0
Partition Size 261.98 GB (281,300,402,176 bytes)
Partition Starting Offset 32,768 bytes

Description Disk drive
Manufacturer (Standard disk drives)
Model UNISYS 036434ST336752LC SCSI Disk Device
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed hard disk
Partitions 1
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 0
SCSI Target ID 0
Sectors/Track 63
Size 33.93 GB (36,429,765,120 bytes)
Total Cylinders 4,429
Total Sectors 71,151,885
Total Tracks 1,129,395
Tracks/Cylinder 255
Partition Disk #0, Partition #0
Partition Size 33.93 GB (36,429,732,864 bytes)
Partition Starting Offset 32,256 bytes

[SCSI]

Item Value
Name Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&25EA3EC6&0&0000

Memory Address 0xDF800000-0xDFFFFFFF
Memory Address 0xDE000000-0xDFFFFFFF
IRQ Channel IRQ 0

Name Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&2CF6F8ED&0&0000

Memory Address 0xE1800000-0xE1FFFFFFF
Memory Address 0xE0100000-0xE01FFFFFFF
IRQ Channel IRQ 4

Name Adaptec SCSI Card 39160 - Ultra160 SCSI
Manufacturer Adaptec
Status OK
PNP Device ID
PCI\VEN_9005&DEV_00C0&SUBSYS_F6209005&REV_01\3&29E81982&0&08

I/O Port 0x00001100-0x000011FF
Memory Address 0xE0000000-0xE1FFFFFFF
IRQ Channel IRQ 5

Name Adaptec SCSI Card 39160 - Ultra160 SCSI
Manufacturer Adaptec
Status OK
PNP Device ID
PCI\VEN_9005&DEV_00C0&SUBSYS_F6209005&REV_01\3&29E81982&0&09

I/O Port 0x00001200-0x000012FF
Memory Address 0xE0001000-0xE0001FFF
IRQ Channel IRQ 6

Name Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&145AF944&0&0000

Memory Address 0xE3800000-0xE3FFFFFFF
Memory Address 0xE2100000-0xE3FFFFFFF
IRQ Channel IRQ 28

Name Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&101F93C3&0&0000

Memory Address 0xE7800000-0xE7FFFFFFF
Memory Address 0xE6100000-0xE7FFFFFFF
IRQ Channel IRQ 52

Name Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&39122BAF&0&0000

Memory Address 0xEB800000-0xEBFFFFFFF
Memory Address 0xEA100000-0xEBFFFFFFF
IRQ Channel IRQ 76

Name Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
Manufacturer Unisys Corporation
Status OK
PNP Device ID
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&32DC1527&0&0000

Memory Address 0xEF800000-0xEFFFFFFF
Memory Address 0xEE100000-0xEFFFFFFF

IRQ Channel IRQ 100

Name Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
 Manufacturer Unisys Corporation
 Status OK
 PNP Device ID
 PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&3798F592&0&0000

Memory Address 0xF3800000-0xF3FFFFFF
 Memory Address 0xF2100000-0xF3FFFFFF
 IRQ Channel IRQ 124

Name Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
 Manufacturer Unisys Corporation
 Status OK
 PNP Device ID
 PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&102FA53&0&0000

Memory Address 0xF7800000-0xF7FFFFFF
 Memory Address 0xF6100000-0xF7FFFFFF
 IRQ Channel IRQ 148

Name Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
 Manufacturer Unisys Corporation
 Status OK
 PNP Device ID
 PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&297B89&0&0000

Memory Address 0xFB800000-0xFBFFFFFF
 Memory Address 0xFA100000-0xFBFFFFFF
 IRQ Channel IRQ 172

[IDE]

Item Value
 Name Intel(r) 82371AB/EB PCI Bus Master IDE Controller
 Manufacturer Intel
 Status OK
 PNP Device ID
 PCI\VEN_8086&DEV_7111&SUBSYS_00000000&REV_01\3&172E68DD&0&09

I/O Port 0x00001020-0x0000102F

[Printing]

Name Driver Port Name Server Name

[Problem Devices]

Device PNP Device ID Error Code
 Not Available ACPI\UNO4501\0 The drivers for this device are not installed.

[USB]

Device PNP Device ID
 Intel(r) 82371AB/EB PCI to USB Universal Host Controller
 PCI\VEN_8086&DEV_7112&SUBSYS_00000000&REV_01\3&172E68DD&0&0A

USB Root Hub USB\ROOT_HUB\4&4F87EEF&0

[Software Environment]

[System Drivers]

Name	Description	File	Type	Started	Start	Mode	State	Status
	Error Control	Accept	Pause	Accept	Stop			
abiosdsk	Abiosdsk		Not Available	Kernel Driver	No			
	Disabled	Stopped	OK	Ignore	No	No		
acpi	Microsoft ACPI Driver	c:\windows\system32\drivers\acpi.sys	Kernel Driver	Yes	Boot	Running	OK	Normal
acpiec	ACPIEC	c:\windows\system32\drivers\acpiec.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal
adpu160m	adpu160m	c:\windows\system32\drivers\adpu160m.sys	Kernel Driver	Yes	Boot	Running	OK	Normal
adpu320	adpu320	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal
afcnt	afcnt	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal
afd	AFD Networking Support Environment	c:\windows\system32\drivers\afd.sys	Kernel Driver	Yes	Running	OK	Normal	Auto
aha154x	Aha154x	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal
aic78u2	aic78u2	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal
aic78xx	aic78xx	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal
aliide	AliIde	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Normal
asynctac	RAS Asynchronous Media Driver	c:\windows\system32\drivers\asynctac.sys	Kernel Driver	No	Manual	Stopped	OK	Normal
atapi	atapi	c:\windows\system32\drivers\atapi.sys	Kernel Driver	No	Disabled	Stopped	OK	Normal
atdisk	Atdisk	Not Available	Kernel Driver	No	Disabled	Stopped	OK	Ignore
atmarpc	ATM ARP Client Protocol	c:\windows\system32\drivers\atmarpc.sys	Kernel Driver	No	Manual	Stopped	OK	Normal
audstub	Audio Stub Driver	c:\windows\system32\drivers\audstub.sys	Kernel Driver	Yes	Manual	Running	OK	Normal
beep	Beep	c:\windows\system32\drivers\beep.sys	Kernel Driver	Yes	System	Running	OK	Normal
cbidf2k	cbidf2k	c:\windows\system32\drivers\cbidf2k.sys	Kernel Driver	No	No	Stopped	OK	Normal
cdfs	Cdfs	c:\windows\system32\drivers\cdfs.sys	File System Driver	Yes	Disabled	Running	OK	Normal
cdrom	CD-ROM Driver	c:\windows\system32\drivers\cdrom.sys	Kernel Driver	Yes	System	Running	OK	Normal
changer	Changer	Not Available	Kernel Driver	No	System	Stopped	OK	Ignore

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clusdisk Cluster Disk Driver
c:\windows\system32\drivers\clusdisk.sys Kernel Driver No
Disabled Stopped OK Normal No No
cmdide CmdIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No
cpqarray Cpqarray Not Available Kernel Driver No
Disabled Stopped OK Normal No No
cpqarray2 cpqarray2 Not Available Kernel Driver No
Disabled Stopped OK Normal No No
cpqcissm cpqcissm Not Available Kernel Driver No
Disabled Stopped OK Normal No No
cpqfcalm cpqfcalm Not Available Kernel Driver No
Disabled Stopped OK Normal No No
crcdisk CRC Disk Filter Driver c:\windows\system32\drivers\crcdisk.sys
Kernel Driver Yes Boot Running OK Normal No Yes
dac960nt dac960nt Not Available Kernel Driver No
Disabled Stopped OK Normal No No
dasd IntelliFibre Fabric Disk Driver (dasd)
c:\windows\system32\drivers\dasd.sys Kernel Driver Yes Boot
Running OK Normal No Yes
dfsdriver DfsDriver c:\windows\system32\drivers\dfs.sys File
System Driver Yes Boot Running OK Normal No Yes
disk Disk Driver c:\windows\system32\drivers\disk.sys Kernel Driver
Yes Boot Running OK Normal No Yes
dmboot dmboot c:\windows\system32\drivers\dmboot.sys Kernel Driver
No Disabled Stopped OK Normal No No
dmio Logical Disk Manager Driver c:\windows\system32\drivers\dmio.sys
Kernel Driver Yes Boot Running OK Normal No Yes
dmload dmload c:\windows\system32\drivers\dmload.sys Kernel Driver
Yes Boot Running OK Normal No Yes
dpti2o dpti2o Not Available Kernel Driver No Disabled
Stopped OK Normal No No
e100b Intel(R) PRO Adapter Driver
c:\windows\system32\drivers\e100b325.sys Kernel Driver Yes
Manual Running OK Normal No Yes
em em c:\windows\system32\drivers\em.sys Kernel Driver No
Manual Stopped OK Normal No No
escon Console Manager Control Device
c:\windows\system32\drivers\escon.sys Kernel Driver Yes Boot
Running OK Normal No Yes
esdriver esDriver c:\windows\system32\drivers\esdriver.sys
Kernel Driver Yes Auto Running OK Normal No Yes
esvuart Console Manager Network Connection
c:\windows\system32\drivers\esvuart.sys Kernel Driver No
Auto Stopped OK Normal No No
fastfat Fastfat c:\windows\system32\drivers\fastfat.sys File System
Driver No Disabled Stopped OK Normal No No
fdc Floppy Disk Controller Driver c:\windows\system32\drivers\fdc.sys
Kernel Driver Yes Manual Running OK Normal No Yes
fips Fips c:\windows\system32\drivers\fips.sys Kernel Driver Yes
System Running OK Normal No Yes
flpydisk Floppy Disk Driver
c:\windows\system32\drivers\flpydisk.sys Kernel Driver Yes
Manual Running OK Normal No Yes

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ftdisk Volume Manager Driver c:\windows\system32\drivers\ftdisk.sys
Kernel Driver Yes Boot Running OK Normal No Yes
gnindis cLAN NDIS Driver c:\windows\system32\drivers\gnindis.sys
Kernel Driver Yes Auto Running OK Normal No Yes
gnivia cLAN VIA Driver c:\windows\system32\drivers\gnivia.sys
Kernel Driver Yes Auto Running OK Normal No Yes
gpc Generic Packet Classifier
c:\windows\system32\drivers\msgpc.sys Kernel Driver Yes Manual
Running OK Normal No Yes
hpn hpn Not Available Kernel Driver No Disabled
Stopped OK Normal No No
hpt3xx hpt3xx Not Available Kernel Driver No Disabled
Stopped OK Normal No No
http HTTP c:\windows\system32\drivers\http.sys Kernel Driver No
Manual Stopped OK Normal No No
i2omgmt i2omgmt Not Available Kernel Driver No System Stopped OK
Normal No No
i2omp i2omp Not Available Kernel Driver No Disabled
Stopped OK Normal No No
i8042prt i8042 Keyboard and PS/2 Mouse Port Driver
c:\windows\system32\drivers\i8042prt.sys Kernel Driver Yes
System Running OK Normal No Yes
ifip IntelliFibre Fabric Bus Enumerator (ifIp)
c:\windows\system32\drivers\ifip.sys Kernel Driver Yes Boot
Running OK Normal No Yes
ifxp Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)
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 No System
Stopped OK Normal No No
intelide IntelIde c:\windows\system32\drivers\intelide.sys
Kernel Driver Yes Boot Running OK Normal No Yes
ipfilterdriver IP Traffic Filter Driver
c:\windows\system32\drivers\ipfltdrv.sys Kernel Driver No
Manual Stopped OK Normal No No
ipinip IP in IP Tunnel Driver c:\windows\system32\drivers\ipinip.sys
Kernel Driver No Manual Stopped OK Normal No No
ipnat IP Network Address Translator
c:\windows\system32\drivers\ipnat.sys Kernel Driver No Manual
Stopped OK Normal No No
ipsec IPSEC driver c:\windows\system32\drivers\ipsec.sys Kernel Driver
Yes System Running OK Normal No Yes
ipsraidn ipsraidn Not Available Kernel Driver No
Disabled Stopped OK Normal No No
isapnp PnP ISA/EISA Bus Driver
c:\windows\system32\drivers\isapnp.sys Kernel Driver Yes
Boot Running OK Critical No Yes
kbdclass Keyboard Class Driver
c:\windows\system32\drivers\kbdclass.sys Kernel Driver Yes
System Running OK Normal No Yes

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ksecdd	KSecDD	c:\windows\system32\drivers\ksecdd.sys	Kernel Driver	Yes	Boot	Running OK	Normal	No	Yes
lp6nds35	lp6nds35	Not Available	Kernel Driver	No	Disabled	Stopped OK	Normal	No	No
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
mountmgr	Mount Point Manager	c:\windows\system32\drivers\mountmgr.sys	Kernel Driver	Yes	Boot	Running OK	Normal	No	Yes
mraid35x	mraid35x	Not Available	Kernel Driver	No	Disabled	Stopped OK	Normal	No	No
mrxdav	WebDav Client Redirector	c:\windows\system32\drivers\mrxdav.sys	File System Driver	No	Manual	Stopped OK	Normal	No	No
mrxsbm	MRXSMB	c:\windows\system32\drivers\mrxsbm.sys	File System Driver	Yes	System	Running OK	Normal	No	Yes
msfs	Msf	c:\windows\system32\drivers\msfs.sys	File System Driver	Yes	System	Running OK	Normal	No	Yes
mup	Mup	c:\windows\system32\drivers\mup.sys	File System Driver	Yes	Boot	Running OK	Normal	No	Yes
ndis	NDIS System Driver	c:\windows\system32\drivers\ndis.sys	Kernel Driver	Yes	Boot	Running OK	Normal	No	Yes
ndistapi	Remote Access NDIS TAPI Driver	c:\windows\system32\drivers\ndistapi.sys	Kernel Driver	Yes	Manual	Running OK	Normal	No	Yes
ndisuio	NDIS Usermode I/O Protocol	c:\windows\system32\drivers\ndisuio.sys	Kernel Driver	No	Manual	Stopped OK	Normal	No	No
ndiswan	Remote Access NDIS WAN Driver	c:\windows\system32\drivers\ndiswan.sys	Kernel Driver	Yes	Manual	Running OK	Normal	No	Yes
ndproxy	NDIS Proxy	c:\windows\system32\drivers\ndproxy.sys	Kernel Driver	Yes	Manual	Running OK	Normal	No	Yes
netbios	NetBIOS Interface	c:\windows\system32\drivers\netbios.sys	File System Driver	Yes	System	Running OK	Normal	No	Yes
netbt	NetBios over Tcpip	c:\windows\system32\drivers\netbt.sys	Kernel Driver	Yes	System	Running OK	Normal	No	Yes
nfrd960	nfrd960	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
npfs	Npfs	c:\windows\system32\drivers\npfs.sys	File System Driver	Yes	System	Running OK	Normal	No	Yes
ntfs	Ntfs	c:\windows\system32\drivers\ntfs.sys	File System Driver	Yes	Disabled	Running OK	Normal	No	Yes
null	Null	c:\windows\system32\drivers\null.sys	Kernel Driver	Yes	System	Running OK	Normal	No	Yes
parport	Parallel port driver	c:\windows\system32\drivers\parport.sys	Kernel Driver	Yes	Manual	Running OK	Normal	No	Yes
partmgr	Partition Manager	c:\windows\system32\drivers\partmgr.sys	Kernel Driver	Yes	Boot	Running OK	Normal	No	Yes
parvdm	ParVdm	c:\windows\system32\drivers\parvdm.sys	Kernel Driver	Yes	Auto	Running OK	Ignore	No	Yes
pci	PCI Bus Driver	c:\windows\system32\drivers\pci.sys	Kernel Driver	Yes	Boot	Running OK	Critical	No	Yes
pciide	PCIIde	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
pcmcia	Pcmcia	c:\windows\system32\drivers\pcmcia.sys	Kernel Driver	No	Disabled	Stopped OK	Normal	No	No
pdcomp	PDCOMP	Not Available	Kernel Driver	No	Ignore	No	No	No	Manual Stopped OK
pdframe	PDFRAME	Not Available	Kernel Driver	No	Ignore	No	No	No	Manual Stopped OK
pdreli	PDRELI	Not Available	Kernel Driver	No	Ignore	No	No	No	Manual Stopped OK
pdrframe	PDRFRAME	Not Available	Kernel Driver	No	Manual	Stopped OK	Ignore	No	No
perc2	perc2	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
perc2hib	perc2hib	Not Available	Kernel Driver	No	Disabled	Stopped OK	Normal	No	No
pptpminiport	WAN Miniport (PPTP)	c:\windows\system32\drivers\rasppptp.sys	Kernel Driver	Yes	Manual	Running OK	Normal	No	Yes
processor	Processor Driver	c:\windows\system32\drivers\processr.sys	Kernel Driver	No	Manual	Stopped OK	Normal	No	No
ptilink	Direct Parallel Link Driver	c:\windows\system32\drivers\ptilink.sys	Kernel Driver	Yes	Manual	Running OK	Normal	No	Yes
ql1080	ql1080	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
ql10wnt	Ql10wnt	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
ql12160	ql12160	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
ql1240	ql1240	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
ql1280	ql1280	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
ql2100	ql2100	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
ql2200	ql2200	c:\windows\system32\drivers\ql2200.sys	Kernel Driver	Yes	Boot	Running OK	Normal	No	Yes
ql2300	ql2300	Not Available	Kernel Driver	No	Stopped OK	Normal	No	No	Disabled
rasacd	Remote Access Auto Connection Driver	c:\windows\system32\drivers\rasacd.sys	Kernel Driver	Yes	System	Running OK	Normal	No	Yes
rasl2tp	WAN Miniport (L2TP)	c:\windows\system32\drivers\rasl2tp.sys	Kernel Driver	Yes	Manual	Running OK	Normal	No	Yes
rasppoe	Remote Access PPPOE Driver	c:\windows\system32\drivers\rasppoe.sys	Kernel Driver	Yes	Manual	Running OK	Normal	No	Yes
raspti	Direct Parallel	c:\windows\system32\drivers\raspti.sys	Kernel Driver	Yes	Manual	Running OK	Normal	No	Yes
rdbs	Rdbss	c:\windows\system32\drivers\rdbs.sys	File System Driver	Yes	System	Running OK	Normal	No	Yes
rdpcdd	RDPCDD	c:\windows\system32\drivers\rdpcdd.sys	Kernel Driver	Yes	System	Running OK	Ignore	No	Yes

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rdpdr Terminal Server Device Redirector Driver
c:\windows\system32\drivers\rdpdr.sys Kernel Driver Yes Manual
Running OK Normal No Yes
rdpwd RDPWD c:\windows\system32\drivers\rdpwd.sys Kernel Driver Yes
Manual Running OK Ignore No Yes
redbook Digital CD Audio Playback Filter Driver
c:\windows\system32\drivers\redbook.sys Kernel Driver No
System Stopped OK Normal No No
secdrv Secdrv c:\windows\system32\drivers\secdrv.sys Kernel Driver
No Manual Stopped OK Normal No No
serenum Serenum Filter Driver c:\windows\system32\drivers\serenum.sys
Kernel Driver Yes Manual Running OK Normal No Yes
serial Serial port driver c:\windows\system32\drivers\serial.sys
Kernel Driver Yes System Running OK Ignore No Yes
sfloppy Sfloppy c:\windows\system32\drivers\sfloppy.sys Kernel Driver
No System Stopped OK Ignore No No
simbad Simbad Not Available Kernel Driver No Disabled
Stopped OK Normal No No
sparrow Sparrow Not Available Kernel Driver No Disabled
Stopped OK Normal No No
srv Srv c:\windows\system32\drivers\srv.sys File System Driver
Yes Manual Running OK Normal No Yes
swenum Software Bus Driver c:\windows\system32\drivers\swenum.sys
Kernel Driver Yes Manual Running OK Normal No Yes
symc810 symc810 Not Available Kernel Driver No Disabled
Stopped OK Normal No No
symc8xx symc8xx Not Available Kernel Driver No Disabled
Stopped OK Normal No No
symmpi symmpi Not Available Kernel Driver No Disabled
Stopped OK Normal No No
sym_hi sym_hi Not Available Kernel Driver No Disabled
Stopped OK Normal No No
sym_u3 sym_u3 Not Available Kernel Driver No Disabled
Stopped OK Normal No No
tcpip TCP/IP Protocol Driver c:\windows\system32\drivers\tcpip.sys Kernel
Driver Yes System Running OK Normal No Yes
tdpipe TDPIPE c:\windows\system32\drivers\tdpipe.sys Kernel Driver
No Manual Stopped OK Ignore No No
tdtcp TDTCP c:\windows\system32\drivers\tdtcp.sys Kernel Driver Yes
Manual Running OK Ignore No Yes
termdd Terminal Device Driver c:\windows\system32\drivers\termdd.sys
Kernel Driver Yes System Running OK Normal No Yes
toside TosIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No
udfs Udfs c:\windows\system32\drivers\udfs.sys File System Driver
No Disabled Stopped OK Normal No No
unescons Console Manager Video Driver
c:\windows\system32\drivers\unescons.sys Kernel Driver Yes
Manual Running OK Ignore No Yes
update Microcode Update Driver
c:\windows\system32\drivers\update.sys Kernel Driver Yes
Manual Running OK Normal No Yes
usbhub USB2 Enabled Hub c:\windows\system32\drivers\usbhub.sys
Kernel Driver Yes Manual Running OK Normal No Yes

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usbuhci Microsoft USB Universal Host Controller Miniport Driver
c:\windows\system32\drivers\usbuhci.sys Kernel Driver Yes
Manual Running OK Normal No Yes
vga vga c:\windows\system32\drivers\vgapnp.sys Kernel Driver
No Manual Stopped OK Ignore No No
vgasave VGA Display Controller. c:\windows\system32\drivers\vga.sys
Kernel Driver Yes System Running OK Ignore No Yes
viaide ViaIde Not Available Kernel Driver No Disabled
Stopped OK Normal No No
volsnap Storage volumes c:\windows\system32\drivers\volsnap.sys
Kernel Driver Yes Boot Running OK Normal No Yes
wanarp Remote Access IP ARP Driver
c:\windows\system32\drivers\wanarp.sys Kernel Driver Yes
Manual Running OK Normal No Yes
wdica WDICA Not Available Kernel Driver No Manual Stopped OK
Ignore No No
wlbs Network Load Balancing c:\windows\system32\drivers\wlbs.sys Kernel
Driver No Manual Stopped OK Normal No No
[Signed Drivers]
Device Name Signed Device Class Driver Version Driver Date
Manufacturer INF Name Driver Name Device ID
Not Available Not Available Not Available Not Available Not Available Not Available
Not Available Not Available Not Available Not Available HTREE\ROOT\0
CMP (ACPI) Server No COMPUTER 5.3562.8.301 10/23/2001
Unisys oem0.inf Not Available ROOT\ACPI_HAL\0000
Microsoft ACPI-Compliant System No SYSTEM 5.2.3694.0
10/1/2002 Microsoft acpi.inf Not Available
ACPI_HAL\PNP0C08\0
Not Available Not Available Not Available Not Available Not Available
Not Available Not Available Not Available Not Available ACPI\UNO4501\0
PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\2
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0
10/1/2002 (Standard system devices) machine.inf Not
Available PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&1070020&0&000
Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) No
SCSIADAPTER 2.20.0.12 9/11/2002 Unisys Corporation
oem6.inf Not Available
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&25EA3EC6&0&0000
PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\3
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0
10/1/2002 (Standard system devices) machine.inf Not
Available PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&29E81982&0&00
Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) No
SCSIADAPTER 2.20.0.12 9/11/2002 Unisys Corporation
oem6.inf Not Available
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&2CF6F8ED&0&0000
Adaptec SCSI Card 39160 - Ultra160 SCSI No SCSIADAPTER
5.2.3694.0 10/1/2002 Adaptec pnpscsi.inf Not Available

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PCI\VEN_9005&DEV_00C0&SUBSYS_F6209005&REV_01\3&29E81982&0&08
Disk drive No DISKDRIVE 5.2.3694.0 10/1/2002
(Standard disk drives) disk.inf Not Available
SCSI\DISK&VEN_UNISYS&PROD_036434ST336752LC&REV_4D00\4&B87A6AC&0&00
0
CD-ROM Drive No CDROM 5.2.3694.0 10/1/2002 (Standard CD-
ROM drives) cdrom.inf Not Available
SCSI\CDROM&VEN_TOSHIBA&PROD_CD-ROM_XM-
6401TA&REV_1001\4&B87A6AC&0&050
Adaptec SCSI Card 39160 - Ultra160 SCSI No SCSIADAPTER
5.2.3694.0 10/1/2002 Adaptec pnpscsi.inf Not Available
PCI\VEN_9005&DEV_00C0&SUBSYS_F6209005&REV_01\3&29E81982&0&09

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\4
Intel 82371AB/EB PCI to ISA bridge (ISA mode) No SYSTEM
5.2.3694.0 10/1/2002 Intel machine.inf Not Available
PCI\VEN_8086&DEV_7110&SUBSYS_00000000&REV_02\3&172E68DD&0&08

ISAPNP Read Data Port No SYSTEM 5.2.3694.0 10/1/2002
(Standard system devices) machine.inf Not Available
ISAPNP\READDATA\PORT\0
Direct memory access controller No SYSTEM 5.2.3694.0
10/1/2002 (Standard system devices) machine.inf Not
Available ACPI\PNP0200\D
Programmable interrupt controller No SYSTEM 5.2.3694.0
10/1/2002 (Standard system devices) machine.inf Not
Available ACPI\PNP0000\D
System CMOS/real time clock No SYSTEM 5.2.3694.0 10/1/2002
(Standard system devices) machine.inf Not Available
ACPI\PNP0B00\D
System timer No SYSTEM 5.2.3694.0 10/1/2002 (Standard
system devices) machine.inf Not Available ACPI\PNP0100\D
System speaker No SYSTEM 5.2.3694.0 10/1/2002 (Standard
system devices) machine.inf Not Available ACPI\PNP0800\D
Generic Bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard
system devices) machine.inf Not Available ACPI\PNP0A05\D
Communications Port No PORTS 5.2.3694.0 10/1/2002
(Standard port types) msports.inf Not Available
ACPI\PNP0501\12
ECP Printer Port No PORTS 5.2.3694.0 10/1/2002
(Standard port types) msports.inf Not Available ACPI\PNP0401\D

Printer Port Logical Interface No SYSTEM 5.2.3694.0
10/1/2002 (Standard system devices) machine.inf Not
Available LPTENUM\MICROSOFTRAWPORT\6&2DCCF168&0&LPT1
PS/2 Compatible Mouse No MOUSE 5.2.3694.0 10/1/2002
Microsoft msmouse.inf Not Available ACPI\PNP0F13\D
Standard 101/102-Key or Microsoft Natural PS/2 Keyboard No
KEYBOARD 5.2.3694.0 10/1/2002 (Standard keyboards)
keyboard.inf Not Available ACPI\PNP0303\D
Standard floppy disk controller No FDC 5.2.3694.0
10/1/2002 (Standard floppy disk controllers) fdc.inf Not
Available ACPI\PNP0700\D
Floppy disk drive No FLOPPYDISK 5.2.3694.0 10/1/2002
(Standard floppy disk drives) fpydisk.inf Not Available
FDC\GENERIC_FLOPPY_DRIVE\6&1E621CEF&0&0

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Intel(r) 82371AB/EB PCI Bus Master IDE Controller No HDC
5.2.3694.0 10/1/2002 Intel mshdc.inf Not Available
PCI\VEN_8086&DEV_7111&SUBSYS_00000000&REV_01\3&172E68DD&0&09

Intel(r) 82371AB/EB PCI to USB Universal Host Controller No USB
5.2.3694.0 10/1/2002 Intel usbport.inf Not Available
PCI\VEN_8086&DEV_7112&SUBSYS_00000000&REV_01\3&172E68DD&0&0A

USB Root Hub No USB 5.2.3694.0 10/1/2002 (Standard USB
Host Controller) usbport.inf Not Available
USB\ROOT_HUB\4&4F87EEF&0
DEC 21152 PCI to PCI bridge No SYSTEM 5.2.3694.0 10/1/2002
DEC machine.inf Not Available
PCI\VEN_1011&DEV_0024&SUBSYS_00000000&REV_03\3&172E68DD&0&10

PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0
10/1/2002 (Standard system devices) machine.inf Not
Available
PCI\VEN_8086&DEV_0960&SUBSYS_00000000&REV_05\4&13B26DF1&0&0010

Console Manager control device No SYSTEM 6.0.3.25
2/27/2002 Unisys Corporation oem1.inf Not Available
PCI\VEN_8086&DEV_1960&SUBSYS_C2001018&REV_05\4&13B26DF1&0&0110

Console Manager Video Driver No DISPLAY 6.0.3.25 2/27/2002
Unisys Corporation oem2.inf Not Available
PCI\VEN_1013&DEV_00D6&SUBSYS_80D61018&REV_03\4&13B26DF1&0&1010

Default Monitor No MONITOR 5.1.2001.0 6/6/2001
(Standard monitor types) monitor.inf Not Available
DISPLAY\DEFAULT_MONITOR\5&18DCA6E6&0&11223344&02&02
cLAN Host Adapter No NET 4.2.0.75 10/5/2000
Giganet oem7.inf Not Available
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&172E68DD&0&18

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\5
PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\6
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0
10/1/2002 (Standard system devices) machine.inf Not
Available
PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&E44F86D&0&00

Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) No
SCSIADAPTER 2.20.0.12 9/11/2002 Unisys Corporation
oem6.inf Not Available
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&145AF944&0&0000

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system
devices) machine.inf Not Available ACPI\PNP0A03\7
Intel(R) PRO/100+ Server Adapter (PILA8470B) No NET 6.4.12.0
10/1/2002 Intel net557.inf Not Available
PCI\VEN_8086&DEV_1229&SUBSYS_100C8086&REV_08\3&20FEA912&0&00

cLAN Host Adapter No NET 4.2.0.75 10/5/2000
Giganet oem7.inf Not Available
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&20FEA912&0&18

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PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\8
PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\9
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&AD74055&0&00

Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) No
SCSIADAPTER 2.20.0.12 9/11/2002 Unisys Corporation
oem6.inf Not Available
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&101F93C3&0&0000

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\A
cLAN Host Adapter No NET 4.2.0.75 10/5/2000
Giganet oem7.inf Not Available
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&23C0707C&0&18

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\B
PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\C
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&1B2F0CE&0&00

Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) No
SCSIADAPTER 2.20.0.12 9/11/2002 Unisys Corporation
oem6.inf Not Available
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&39122BAF&0&0000

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\D
cLAN Host Adapter No NET 4.2.0.75 10/5/2000
Giganet oem7.inf Not Available
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&146CA173&0&18

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\E
PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\F
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&39E002BD&0&00

Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) No
SCSIADAPTER 2.20.0.12 9/11/2002 Unisys Corporation
oem6.inf Not Available
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&32DC1527&0&0000

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\10
cLAN Host Adapter No NET 4.2.0.75 10/5/2000
Giganet oem7.inf Not Available
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&A985F74&0&18

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\11

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\12
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&300BC0BE&0&00

Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) No
SCSIADAPTER 2.20.0.12 9/11/2002 Unisys Corporation
oem6.inf Not Available
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&3798F592&0&0000

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\13
cLAN Host Adapter No NET 4.2.0.75 10/5/2000
Giganet oem7.inf Not Available
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&72AA75C&0&18

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\14
PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\15
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&2C9E08A6&0&00

Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) No
SCSIADAPTER 2.20.0.12 9/11/2002 Unisys Corporation
oem6.inf Not Available
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&102FA53&0&0000

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\16
cLAN Host Adapter No NET 4.2.0.75 10/5/2000
Giganet oem7.inf Not Available
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&3BCE44&0&18

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\17
PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\18
PCI standard PCI-to-PCI bridge No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available PCI\VEN_8086&DEV_0309&SUBSYS_00000000&REV_01\3&23FF515D&0&00

Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp) No
SCSIADAPTER 2.20.0.12 9/11/2002 Unisys Corporation
oem6.inf Not Available
PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&297B89&0&0000

PCI bus No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available ACPI\PNP0A03\19
cLAN Host Adapter No NET 4.2.0.75 10/5/2000
Giganet oem7.inf Not Available
PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&1145A0B8&0&18

Logical Disk Manager No SYSTEM 5.2.3694.0 10/1/2002 (Standard system devices) machine.inf Not Available
ROOT\DMIO\0000

STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F409007OFFSET22750000LENGTH	E4C00000	esDriver	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Not Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_ESDRIVER\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F409007OFFSET30C100000LENGTH	157AE00000	Fips	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_FIPS\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F409049OFFSET8000LENGTHBDB6F8	000	cLAN VIA Driver	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_GNIVIA\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F409049OFFSETBD700000LENGTH1	69E00000	Generic Packet Classifier	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Not Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_GPC\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F409049OFFSETBDB700000LENGTH1	69E00000	IPSEC driver	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Not Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_IPSEC\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F409049OFFSET227500000LENGTH	E4C00000	ksecdd	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_KSECCD\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F40905BOFFSET8000LENGTHBDB6F8	000	mnmdd	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_MNMDD\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F409049OFFSET30C100000LENGTH	157AE00000	mountmgr	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Not Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_MOUNTMGR\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F40905BOFFSET8000LENGTHBDB6F8	000	NDIS System Driver	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_NDIS\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F40905BOFFSETBDB700000LENGTH1	69E00000	Remote Access NDIS TAPI Driver	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_NDISTAPI\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F40905BOFFSET227500000LENGTH	E4C00000	NDIS Usermode I/O Protocol	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Not Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_NDISUIO\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F40905BOFFSET30C100000LENGTH	157AE00000	NDProxy	Not Available	LEGACYDRIVER	Not Available	Not Available
Generic volume No	VOLUME 5.2.3694.0	10/1/2002	Microsoft	Available	Not Available	Not Available
volume.inf	Not Available			ROOT\LEGACY_NDPROXY\0000		
STORAGE\VOLUME\1&30A96598&0&SIGNATURE9F40905BOFFSET30C100000LENGTH	157AE00000	NetBios over Tcpip	Not Available	LEGACYDRIVER	Not Available	Not Available
AFD Networking Support Environment	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ROOT\LEGACY_AFD\0000						
Beep	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ROOT\LEGACY_BEEP\0000						
CRC Disk Filter Driver	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ROOT\LEGACY_CRCDISK\0000						
IntelliFibre Fabric Disk Driver (dasd)	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ROOT\LEGACY_DASD\0000						
dmboot	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ROOT\LEGACY_DMBOOT\0000						
dmload	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ROOT\LEGACY_DMLOAD\0000						
em	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
ROOT\LEGACY_EM\0000						

TDTCP	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	ROOT\LEGACY_TDTCP\0000			
VGA Display Controller.	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
		ROOT\LEGACY_VGASAVE\0000				
volsnap	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
Available	Not Available	Not Available	ROOT\LEGACY_VOLSNAP\0000			
Remote Access IP ARP Driver	Not Available	LEGACYDRIVER	Not Available	Not Available	Not Available	Not Available
	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
		ROOT\LEGACY_WANARP\0000				
Audio Codecs	No	MEDIA	5.2.3694.0	10/1/2002	(Standard	
system devices)		wave.inf	Not Available	ROOT\MEDIA\MS_MMADM		
Legacy Audio Drivers	No	MEDIA	5.2.3694.0	10/1/2002		
(Standard system devices)		wave.inf	Not Available			
		ROOT\MEDIA\MS_MMDRV				
Media Control Devices	No	MEDIA	5.2.3694.0	10/1/2002		
(Standard system devices)		wave.inf	Not Available			
		ROOT\MEDIA\MS_MMMCI				
Legacy Video Capture Devices	No	MEDIA	5.2.3694.0	10/1/2002		
(Standard system devices)		wave.inf	Not Available			
		ROOT\MEDIA\MS_MMVCD				
Video Codecs	No	MEDIA	5.2.3694.0	10/1/2002	(Standard	
system devices)		wave.inf	Not Available	ROOT\MEDIA\MS_MMVID		
WAN Miniport (L2TP)	No	NET	5.2.3694.0	10/1/2002		
Microsoft		netrasa.inf	Not Available			
		ROOT\MS_L2TPMINIPORT\0000				
WAN Miniport (IP)	No	NET	5.2.3694.0	10/1/2002		
Microsoft		netrasa.inf	Not Available			
		ROOT\MS_NDISWANIP\0000				
WAN Miniport (PPPOE)	No	NET	5.2.3694.0	10/1/2002		
Microsoft		netrasa.inf	Not Available			
		ROOT\MS_PPPOEMINIPORT\0000				
WAN Miniport (PPTP)	No	NET	5.2.3694.0	10/1/2002		
Microsoft		netrasa.inf	Not Available			
		ROOT\MS_PPTPMINIPORT\0000				
Direct Parallel	No	NET	5.2.3694.0	10/1/2002		
Microsoft		netrasa.inf	Not Available			
		ROOT\MS_PTMINIPORT\0000				
Terminal Server Device Redirector	No	SYSTEM	5.2.3694.0	10/1/2002	(Standard system devices)	machine.inf Not
Available		ROOT\RDPDR\0000				
Terminal Server Keyboard Driver	No	SYSTEM	5.2.3694.0	10/1/2002	(Standard system devices)	machine.inf Not
Available		ROOT\RDP_KBD\0000				
Terminal Server Mouse Driver	No	SYSTEM	5.2.3694.0	10/1/2002	(Standard system devices)	machine.inf Not Available
		ROOT\RDP_MOUSE\0000				
Plug and Play Software Device Enumerator	No	SYSTEM	5.2.3694.0	10/1/2002	(Standard system devices)	machine.inf Not
Available		ROOT\SYSTEM\0000				
Microcode Update Device	No	SYSTEM	5.2.3694.0	10/1/2002	(Standard system devices)	machine.inf Not Available
		ROOT\SYSTEM\0001				
IntelliFibre Fabric Bus Enumerator (ifIp)	No	SYSTEM	2.20.0.21	10/9/2002	Unisys Corporation	oem4.inf Not Available
		ROOT\SYSTEM\0002				

IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_10_____	0841\1&1A590E2C&0&C353024060					
01065000000000000000000000000000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_10_____	0841\1&1A590E2C&0&C353024060					
01065000000000000000000000000000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_0_____	0841\1&1A590E2C&0&DB14034068					
010650000000000000000000A000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_0_____	0841\1&1A590E2C&0&DB14034068					
01065000000000000000000000000000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_0_____	0841\1&1A590E2C&0&DB14034068					
01065000000000000000000000000000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_0_____	0841\1&1A590E2C&0&DB14034068					
01065000000000000000000000000000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_0_____	0841\1&1A590E2C&0&DB14034068					
01065000000000000000000000000000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_0_____	0841\1&1A590E2C&0&DB14034068					
01065000000000000000000000000000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_0_____	0841\1&1A590E2C&0&DB14034068					
01065000000000000000000000000000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						
SCSI\DISK&VEN_DGC_____RAID_0_____	0841\1&1A590E2C&0&B6A3004060					
01065000000000000000000000000000						
IntelliFibre Fabric Disk Driver (dasd)	No	DISKDRIVE				
2.20.0.3	9/11/2002	Unisys Corporation	oem5.inf			
Not Available						


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Not Available
SCSI\DISK&VEN_DGC_____RAID_0_____0841\1&1A590E2C&0&5860014060
0106500000000000000001000
IntelliFibre Fabric Disk Driver (dasd)      No      DISKDRIVE
2.20.0.3      9/11/2002      Unisys Corporation      oem5.inf
Not Available
SCSI\DISK&VEN_DGC_____RAID_0_____0841\1&1A590E2C&0&5F43034060
0106500000000000000001000
IntelliFibre Fabric Disk Driver (dasd)      No      DISKDRIVE
2.20.0.3      9/11/2002      Unisys Corporation      oem5.inf
Not Available
SCSI\DISK&VEN_DGC_____RAID_0_____0841\1&1A590E2C&0&BC0B034060
0106500000000000000001000
IntelliFibre Fabric Disk Driver (dasd)      No      DISKDRIVE
2.20.0.3      9/11/2002      Unisys Corporation      oem5.inf
Not Available
SCSI\DISK&VEN_DGC_____RAID_0_____0841\1&1A590E2C&0&5860014060
0106500000000000000000000
IntelliFibre Fabric Disk Driver (dasd)      No      DISKDRIVE
2.20.0.3      9/11/2002      Unisys Corporation      oem5.inf
Not Available
SCSI\DISK&VEN_DGC_____RAID_0_____0841\1&1A590E2C&0&5F43034060
0106500000000000000000000
IntelliFibre Fabric Disk Driver (dasd)      No      DISKDRIVE
2.20.0.3      9/11/2002      Unisys Corporation      oem5.inf
Not Available
SCSI\DISK&VEN_DGC_____RAID_0_____0841\1&1A590E2C&0&BC0B034060
0106500000000000000000000

```

[Environment Variables]

Variable	Value	User Name

[Print Jobs]

Document	Size	Owner	Notify	Status	Time Submitted	Start Time	
Until Time	Elapsed Time	Pages Printed	Job ID	Priority	Parameters	Driver Print Processor	Host Print Queue
Data Type	Name						

[Network Connections]

Local Name	Remote Name	Type	Status	User Name

[Running Tasks]

Name	Path	Process ID	Priority	Min Working Set	Max Working Set
Working Set	Start Time	Version	Size	File Date	
system idle process	Not Available	0	0	Not Available	Not Available
Available	Not Available	Not Available	Not Available	Not Available	Not Available
system	Not Available	4	8	0	1413120
Available	Not Available	Not Available	Not Available	Not Available	Not Available
smss.exe	c:\windows\system32\smss.exe	484	11	204800	
	1413120	12/2/2002 7:14 AM	5.2.3694.0 (dnssrv.021010-1930)		
	46.50 KB (47,616 bytes)		10/11/2002 5:00 AM		
csrss.exe	Not Available	532	13	Not Available	Not Available
	12/2/2002 7:18 AM	Not Available	Not Available	Not Available	Not Available

```

winlogon.exe c:\windows\system32\winlogon.exe 556 13 204800
1413120 12/2/2002 7:18 AM 5.2.3694.0 (dnssrv.021010-1930)
505.50 KB (517,632 bytes) 10/11/2002 5:00 AM
services.exe c:\windows\system32\services.exe 600 9 204800
1413120 12/2/2002 7:19 AM 5.2.3694.0 (dnssrv.021010-1930)
97.00 KB (99,328 bytes) 10/11/2002 5:00 AM
lsass.exe c:\windows\system32\lsass.exe 612 9 204800
1413120 12/2/2002 7:19 AM 5.2.3694.0 (dnssrv.021010-1930)
13.00 KB (13,312 bytes) 10/11/2002 5:00 AM
svchost.exe c:\windows\system32\svchost.exe 808 8 204800
1413120 12/2/2002 7:19 AM 5.2.3694.0 (dnssrv.021010-1930)
12.00 KB (12,288 bytes) 10/11/2002 5:00 AM
svchost.exe c:\windows\system32\svchost.exe 844 8 204800
1413120 12/2/2002 7:19 AM 5.2.3694.0 (dnssrv.021010-1930)
12.00 KB (12,288 bytes) 10/11/2002 5:00 AM
gnconmgr.exe c:\windows\system32\gnconmgr.exe 1016 8 204800
1413120 12/2/2002 7:19 AM 4.2.0.75 168.05 KB (172,079
bytes) 10/18/2002 8:48 PM
svchost.exe c:\windows\system32\svchost.exe 1096 8 204800
1413120 12/2/2002 7:19 AM 5.2.3694.0 (dnssrv.021010-1930)
12.00 KB (12,288 bytes) 10/11/2002 5:00 AM
msdtc.exe Not Available 1296 8 Not Available Not Available
12/2/2002 7:20 AM Not Available Not Available Not Available
esconmgr.exe c:\windows\system32\esconmgr.exe 1756 24 204800
1413120 12/2/2002 7:20 AM 6.0.3.25 265.05 KB (271,412
bytes) 8/19/2002 5:53 PM
svchost.exe Not Available 1780 8 Not Available Not Available
12/2/2002 7:20 AM Not Available Not Available Not Available
explorer.exe c:\windows\explorer.exe 520 8 204800
1413120 12/2/2002 7:20 AM 6.00.3694.0 (dnssrv.021010-1930)
994.00 KB (1,017,856 bytes) 10/11/2002 5:00 AM
sqlmangr.exe c:\program files\microsoft sql
server\80\tools\bin\sqlmangr.exe 976 8 204800 1413120
12/2/2002 7:20 AM 2000.080.0731.00 72.57 KB (74,308
bytes) 10/24/2002 6:53 PM
wmiprvse.exe Not Available 1288 8 Not Available Not Available
12/2/2002 7:20 AM Not Available Not Available Not Available
wpabaln.exe c:\windows\system32\wpabaln.exe 3424 8 204800
1413120 12/2/2002 7:22 AM 5.2.3694.0 (dnssrv.021010-1930)
31.00 KB (31,744 bytes) 10/11/2002 5:00 AM
cmd.exe c:\windows\system32\cmd.exe 3468 8 204800 1413120
12/2/2002 7:24 AM 5.2.3694.0 (dnssrv.021010-1930) 253.00
KB (259,072 bytes) 10/11/2002 5:00 AM
sqlservr.exe
c:\sql80\sqlbuilds\sql_11_26_02\11_26_02_alloc3\sqlservr.exe
3496 13 204800 1413120 12/2/2002 7:24 AM
2000.080.0731.00 7.09 MB (7,434,280 bytes) 11/28/2002
10:10 AM
isqlw.exe c:\program files\microsoft sql
server\80\tools\bin\isqlw.exe 2448 8 204800 1413120
12/2/2002 9:14 AM 2000.080.0731.00 344.56 KB (352,828
bytes) 10/24/2002 6:52 PM
wmiprvse.exe Not Available 3028 8 Not Available Not Available
12/2/2002 10:10 AM Not Available Not Available Not Available

```

```

helpctr.exe c:\windows\pchealth\helpctr\binaries\helpctr.exe 1896
            8 204800 1413120 12/2/2002 10:11 AM 5.2.3694.0
(dnsrv.021010-1930) 721.00 KB (738,304 bytes) 10/17/2002 2:29 PM

helpsvc.exe c:\windows\pchealth\helpctr\binaries\helpsvc.exe 3220
            8 204800 1413120 12/2/2002 10:11 AM 5.2.3694.0
(dnsrv.021010-1930) 686.50 KB (702,976 bytes) 10/17/2002 2:29 PM

```

[Loaded Modules]

Name	Version	Size	File Date	Manufacturer	Path
smss	5.2.3694.0	46.50 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\smss.exe
ntdll	5.2.3694.0	688.00 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\ntdll.dll
winlogon	5.2.3694.0	505.50 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\winlogon.exe
kernel32	5.2.3694.0	931.50 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\kernel32.dll
msvcrt	7.0.3694.0	319.50 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\msvcrt.dll
advapi32	5.2.3694.0	552.00 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\advapi32.dll
rpcrt4	5.2.3694.0	547.00 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\rpcrt4.dll
user32	5.2.3694.0	525.50 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\user32.dll
gdi32	5.2.3694.0	241.00 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\gdi32.dll
userenv	5.2.3694.0	720.00 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\userenv.dll
nddeapi	5.2.3694.0	15.50 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\nddeapi.dll
crypt32	5.131.3694.0	534.50 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\crypt32.dll
msasn1	5.2.3694.0	50.50 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\msasn1.dll
secur32	5.2.3694.0	57.00 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\secur32.dll
winsta	5.2.3694.0	49.00 KB	(dnsrv.021010-1930) 10/11/2002 5:00 AM	Microsoft Corporation	c:\windows\system32\winsta.dll

```

netapi32 5.2.3694.0 (dnsrv.021010-1930) 307.50 KB (314,880
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\netapi32.dll
profmap 5.2.3694.0 (dnsrv.021010-1930) 21.50 KB (22,016 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\profmap.dll
regapi 5.2.3694.0 (dnsrv.021010-1930) 47.00 KB (48,128 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\regapi.dll
ws2_32 5.2.3694.0 (dnsrv.021010-1930) 73.00 KB (74,752 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ws2_32.dll
ws2help 5.2.3694.0 (dnsrv.021010-1930) 19.00 KB (19,456 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ws2help.dll
psapi 5.2.3694.0 (dnsrv.021010-1930) 18.50 KB (18,944 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\psapi.dll
version 5.2.3694.0 (dnsrv.021010-1930) 16.50 KB (16,896 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\version.dll
setupapi 5.2.3694.0 (dnsrv.021010-1930) 1,000.00 KB
(1,024,000 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\setupapi.dll
msgina 5.2.3694.0 (dnsrv.021010-1930) 1.13 MB (1,187,328 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\msgina.dll
shsvcs 6.00.3694.0 (dnsrv.021010-1930) 121.50 KB (124,416 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\shsvcs.dll
shlwapi 6.00.3694.0 (dnsrv.021010-1930) 267.00 KB (273,408 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\shlwapi.dll
sfc 5.2.3694.0 (dnsrv.021010-1930) 4.50 KB (4,608 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\sfc.dll
sfc_os 5.2.3694.0 (dnsrv.021010-1930) 133.00 KB (136,192 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\sfc_os.dll
wintrust 5.131.3694.0 (dnsrv.021010-1930) 156.50 KB (160,256
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wintrust.dll
ole32 5.2.3694.0 (dnsrv.021010-1930) 1.04 MB (1,087,488 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ole32.dll
imagehlp 5.2.3694.0 (dnsrv.021010-1930) 137.50 KB (140,800
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\imagehlp.dll
comctl32 6.0 (dnsrv.021010-1930) 907.00 KB (928,768 bytes)
10/17/2002 7:07 AM Microsoft Corporation
c:\windows\winsxs\x86_microsoft.windows.common-
controls_6595b64144ccf1df_6.0.100.0_x-ww_8417450b\comctl32.dll
sxs 5.2.3694.0 (dnsrv.021010-1930) 719.00 KB (736,256 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\sxs.dll
winscard 5.2.3694.0 (dnsrv.021010-1930) 94.00 KB (96,256
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\winscard.dll

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wtsapi32 5.2.3694.0 (dnsvr.021010-1930) 17.00 KB (17,408 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wtsapi32.dll

winmm 5.2.3694.0 (dnsvr.021010-1930) 162.00 KB (165,888 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\winmm.dll

rsaenh 5.2.3694.0 (dnsvr.021010-1930) 178.13 KB (182,400 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\rsaenh.dll

wldap32 5.2.3694.0 (dnsvr.021010-1930) 167.00 KB (171,008 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wldap32.dll

cscdll 5.2.3694.0 (dnsvr.021010-1930) 92.00 KB (94,208 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\cscdll.dll

wlnotify 5.2.3694.0 (dnsvr.021010-1930) 85.50 KB (87,552 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wlnotify.dll

winspool 5.2.3694.0 (dnsvr.021010-1930) 134.50 KB (137,728 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\winspool.drv

mpr 5.2.3694.0 (dnsvr.021010-1930) 53.50 KB (54,784 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\mpr.dll

shell32 6.00.3694.0 (dnsvr.021010-1930) 7.70 MB (8,072,192 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\shell32.dll

comctl32 5.82 (dnsvr.021010-1930) 561.00 KB (574,464 bytes) 10/17/2002 7:07 AM Microsoft Corporation
c:\windows\winsxs\x86_microsoft.windows.common-controls_6595b64144ccf1df_5.82.0.0_x-ww_8a69ba05\comctl32.dll

uxtheme 6.00.3694.0 (dnsvr.021010-1930) 190.50 KB (195,072 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\uxtheme.dll

mprapi 5.2.3694.0 (dnsvr.021010-1930) 79.50 KB (81,408 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\mprapi.dll

activeds 5.2.3694.0 (dnsvr.021010-1930) 185.50 KB (189,952 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\activeds.dll

adslsdp 5.2.3694.0 (dnsvr.021010-1930) 138.50 KB (141,824 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\adslsdp.dll

credui 5.2.3694.0 (dnsvr.021010-1930) 158.50 KB (162,304 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\credui.dll

atl 3.05.2224 100.50 KB (102,912 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\atl.dll

oleaut32 5.2.3694.0 485.00 KB (496,640 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\oleaut32.dll

rtutils 5.2.3694.0 (dnsvr.021010-1930) 31.00 KB (31,744 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\rtutils.dll

samlib 5.2.3694.0 (dnsvr.021010-1930) 41.50 KB (42,496 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\samlib.dll

cscui 5.2.3694.0 (dnsvr.021010-1930) 305.00 KB (312,320 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\cscui.dll

clbcatq 2001.12.4624.0 (dnsvr.021010-1930) 490.50 KB (502,272 bytes) 10/17/2002 2:25 PM Microsoft Corporation
c:\windows\system32\clbcatq.dll

comres 2001.12.4624.0 (dnsvr.021010-1930) 778.00 KB (796,672 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\comres.dll

ntmarta 5.2.3694.0 (dnsvr.021010-1930) 108.50 KB (111,104 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ntmarta.dll

wbemprox 5.2.3694.0 (dnsvr.021010-1930) 18.50 KB (18,944 bytes) 10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\wbemprox.dll

wbemcomn 5.2.3694.0 (dnsvr.021010-1930) 195.00 KB (199,680 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wbem\wbemcomn.dll

wbemsvc 5.2.3694.0 (dnsvr.021010-1930) 42.00 KB (43,008 bytes) 10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\wbemsvc.dll

fastprox 5.2.3694.0 (dnsvr.021010-1930) 442.00 KB (452,608 bytes) 10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\fastprox.dll

msvcpx60 6.05.2144.0 388.00 KB (397,312 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\msvcpx60.dll

ntdsapi 5.2.3694.0 (dnsvr.021010-1930) 67.00 KB (68,608 bytes) 10/17/2002 5:54 PM Microsoft Corporation
c:\windows\system32\ntdsapi.dll

dnsapi 5.2.3694.0 (dnsvr.021010-1930) 145.00 KB (148,480 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\dnsapi.dll

services 5.2.3694.0 (dnsvr.021010-1930) 97.00 KB (99,328 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\services.exe

scsvr 5.2.3694.0 (dnsvr.021010-1930) 318.50 KB (326,144 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\scsvr.dll

authz 5.2.3694.0 (dnsvr.021010-1930) 61.00 KB (62,464 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\authz.dll

umpnpgmr 5.2.3694.0 (dnsvr.021010-1930) 117.00 KB (119,808 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\umpnpgmr.dll

ncobjapi 5.2.3694.0 (dnsvr.021010-1930) 32.00 KB (32,768 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ncobjapi.dll

eventlog 5.2.3694.0 (dnsvr.021010-1930) 56.50 KB (57,856 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\eventlog.dll

lsass 5.2.3694.0 (dnsvr.021010-1930) 13.00 KB (13,312 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\lsass.exe

lsasrv 5.2.3694.0 (dnsvr.021010-1930) 722.00 KB (739,328 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\lsasrv.dll

samsrv 5.2.3694.0 (dnsvr.021010-1930) 412.50 KB (422,400 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\samsrv.dll

cryptdll 5.2.3694.0 (dnsvr.021010-1930) 31.00 KB (31,744 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\cryptdll.dll

```

msprivs 5.2.3694.0 (dnsrv.021010-1930) 45.50 KB (46,592 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\msprivs.dll
kerberos 5.2.3694.0 (dnsrv.021010-1930) 305.00 KB (312,320
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\kerberos.dll
msvl_0 5.2.3694.0 (dnsrv.021010-1930) 115.00 KB (117,760 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\msvl_0.dll
netlogon 5.2.3694.0 (dnsrv.021010-1930) 392.50 KB (401,920
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\netlogon.dll
w32time 5.2.3694.0 (dnsrv.021010-1930) 203.50 KB (208,384 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\w32time.dll
iphlpapi 5.2.3694.0 (dnsrv.021010-1930) 77.00 KB (78,848
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\iphlpapi.dll
schannel 5.2.3694.0 (dnsrv.021010-1930) 146.50 KB (150,016
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\schannel.dll
wdigest 5.2.3694.0 (dnsrv.021010-1930) 61.00 KB (62,464 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wdigest.dll
rassfm 5.2.3694.0 (dnsrv.021010-1930) 20.50 KB (20,992 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\rassfm.dll
kdcsvc 5.2.3694.0 (dnsrv.021010-1930) 202.50 KB (207,360 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\kdcsvc.dll
ntdsa 5.2.3694.0 (dnsrv.021010-1930) 1.43 MB (1,501,696 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ntdsa.dll
ntdsatq 5.2.3694.0 (dnsrv.021010-1930) 28.00 KB (28,672 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ntdsatq.dll
mswsock 5.2.3694.0 (dnsrv.021010-1930) 227.50 KB (232,960 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\mswsock.dll
esent 5.2.3694.0 (dnsrv.021010-1930) 926.00 KB (948,224 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\esent.dll
scecli 5.2.3694.0 (dnsrv.021010-1930) 181.00 KB (185,344 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\scecli.dll
wshhcpip 5.2.3694.0 (dnsrv.021010-1930) 18.00 KB (18,432
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wshhcpip.dll
pstorsvc 5.2.3694.0 (dnsrv.021010-1930) 24.50 KB (25,088
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\pstorsvc.dll
psbase 5.2.3694.0 (dnsrv.021010-1930) 83.00 KB (84,992 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\psbase.dll
dssenh 5.2.3694.0 (dnsrv.021010-1930) 132.13 KB (135,296 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\dssenh.dll

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svchost 5.2.3694.0 (dnsrv.021010-1930) 12.00 KB (12,288 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\svchost.exe
rpcss 5.2.3694.0 (dnsrv.021010-1930) 211.50 KB (216,576 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\rpcss.dll
termsrv 5.2.3694.0 (dnsrv.021010-1930) 220.00 KB (225,280 bytes)
10/17/2002 2:25 PM Microsoft Corporation
c:\windows\system32\termsrv.dll
icaapi 5.2.3694.0 (dnsrv.021010-1930) 10.00 KB (10,240 bytes)
10/17/2002 2:25 PM Microsoft Corporation
c:\windows\system32\icaapi.dll
mstlsapi 5.2.3694.0 (dnsrv.021010-1930) 104.00 KB (106,496
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\mstlsapi.dll
rdpwsx 5.2.3694.0 (dnsrv.021010-1930) 80.13 KB (82,056 bytes)
10/17/2002 2:25 PM Microsoft Corporation
c:\windows\system32\rdpwsx.dll
gnconmgr 4.2.0.75 168.05 KB (172,079 bytes) 10/18/2002
8:48 PM Giganet Incorporated c:\windows\system32\gnconmgr.exe
vipl 4.2.0.75 80.00 KB (81,920 bytes) 10/19/2002 8:58 AM
Giganet Incorporated c:\windows\system32\vipl.dll
wkssvc 5.2.3694.0 (dnsrv.021010-1930) 121.00 KB (123,904 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wkssvc.dll
dmserver 5.2.3694.0 (dnsrv.021010-1930) 24.00 KB (24,576
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\dmserver.dll
es 2001.12.4624.0 (dnsrv.021010-1930) 220.00 KB (225,280 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\es.dll
srvsvc 5.2.3694.0 (dnsrv.021010-1930) 78.00 KB (79,872 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\srvsvc.dll
seclogon 5.2.3694.0 (dnsrv.021010-1930) 16.00 KB (16,384
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\seclogon.dll
sens 5.2.3694.0 (dnsrv.021010-1930) 34.00 KB (34,816 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\sens.dll
wmisvc 5.2.3694.0 (dnsrv.021010-1930) 129.00 KB (132,096 bytes)
10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\wmisvc.dll
vssapi 5.2.3694.0 (dnsrv.021010-1930) 520.00 KB (532,480 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\vssapi.dll
comsvcs 2001.12.4624.0 (dnsrv.021010-1930) 1.11 MB (1,163,776 bytes)
10/17/2002 2:25 PM Microsoft Corporation
c:\windows\system32\comsvcs.dll
wiarpc 5.2.3694.0 (dnsrv.021010-1930) 30.00 KB (30,720 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wiarpc.dll
netman 5.2.3694.0 (dnsrv.021010-1930) 195.00 KB (199,680 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\netman.dll
rasapi32 5.2.3694.0 (dnsrv.021010-1930) 222.00 KB (227,328
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\rasapi32.dll

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rasman 5.2.3694.0 (dnsvr.021010-1930) 57.00 KB (58,368 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\rasman.dll
tapi32 5.2.3694.0 (dnsvr.021010-1930) 173.00 KB (177,152 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\tapi32.dll
wzcsvc 5.2.3694.0 (dnsvr.021010-1930) 272.50 KB (279,040 bytes)
10/10/2002 3:48 PM Microsoft Corporation
c:\windows\system32\wzcsvc.dll
wmi 5.2.3694.0 (dnsvr.021010-1930) 6.50 KB (6,656 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wmi.dll
dhcpcsvc 5.2.3694.0 (dnsvr.021010-1930) 96.50 KB (98,816
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\dhcpcsvc.dll
wzcsapi 5.2.3694.0 (dnsvr.021010-1930) 24.00 KB (24,576 bytes)
10/10/2002 3:48 PM Microsoft Corporation
c:\windows\system32\wzcsapi.dll
netshell 5.2.3694.0 (dnsvr.021010-1930) 1.65 MB (1,726,976
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\netshell.dll
clusapi 5.2.3694.0 (dnsvr.021010-1930) 56.50 KB (57,856 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\clusapi.dll
hnetcfg 5.2.3694.0 (dnsvr.021010-1930) 243.50 KB (249,344 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\hnetcfg.dll
wininet 6.00.3694.0 (dnsvr.021010-1930) 570.00 KB (583,680 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wininet.dll
wbemcore 5.2.3694.0 (dnsvr.021010-1930) 453.50 KB (464,384
bytes) 10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\wbemcore.dll
esscli 5.2.3694.0 (dnsvr.021010-1930) 232.50 KB (238,080 bytes)
10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\esscli.dll
wmiutils 5.2.3694.0 (dnsvr.021010-1930) 89.50 KB (91,648
bytes) 10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\wmiutils.dll
repdrvfs 5.2.3694.0 (dnsvr.021010-1930) 165.00 KB (168,960
bytes) 10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\repdrvfs.dll
wmiprvsd 5.2.3694.0 (dnsvr.021010-1930) 405.50 KB (415,232
bytes) 10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\wmiprvsd.dll
wbemess 5.2.3694.0 (dnsvr.021010-1930) 255.00 KB (261,120 bytes)
10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\wbemess.dll
ncprov 5.2.3694.0 (dnsvr.021010-1930) 43.00 KB (44,032 bytes)
10/17/2002 2:24 PM Microsoft Corporation
c:\windows\system32\wbem\ncprov.dll
rasdlg 5.2.3694.0 (dnsvr.021010-1930) 640.50 KB (655,872 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\rasdlg.dll
rasadhlp 5.2.3694.0 (dnsvr.021010-1930) 6.50 KB (6,656 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\rasadhlp.dll

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ntlsapi 5.2.3694.0 (dnsvr.021010-1930) 7.50 KB (7,680 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ntlsapi.dll
pchsvc 5.2.3694.0 (dnsvr.021010-1930) 33.50 KB (34,304 bytes)
10/17/2002 2:29 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchsvc.dll
esconmgr 6.0.3.25 265.05 KB (271,412 bytes) 8/19/2002 5:53
PM Unisys Corporation c:\windows\system32\esconmgr.exe
explorer 6.00.3694.0 (dnsvr.021010-1930) 994.00 KB (1,017,856
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\explorer.exe
browseui 6.00.3694.0 (dnsvr.021010-1930) 1,004.50 KB
(1,028,608 bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\browseui.dll
shdocvw 6.00.3694.0 (dnsvr.021010-1930) 1.29 MB (1,350,144 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\shdocvw.dll
apphelp 5.2.3694.0 (dnsvr.021010-1930) 116.50 KB (119,296 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\apphelp.dll
themeui 6.00.3694.0 (dnsvr.021010-1930) 360.50 KB (369,152 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\themeui.dll
msimg32 5.2.3694.0 (dnsvr.021010-1930) 4.50 KB (4,608 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\msimg32.dll
linkinfo 5.2.3694.0 (dnsvr.021010-1930) 16.00 KB (16,384
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\linkinfo.dll
ntshruil 6.00.3694.0 (dnsvr.021010-1930) 138.00 KB (141,312 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ntshruil.dll
urlmon 6.00.3694.0 (dnsvr.021010-1930) 449.00 KB (459,776 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\urlmon.dll
webcheck 6.00.3694.0 (dnsvr.021010-1930) 258.00 KB (264,192
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\webcheck.dll
wsock32 5.2.3694.0 (dnsvr.021010-1930) 21.50 KB (22,016 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wsock32.dll
stobject 5.2.3694.0 (dnsvr.021010-1930) 118.50 KB (121,344
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\stobject.dll
batmeter 6.00.3694.0 (dnsvr.021010-1930) 29.50 KB (30,208
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\batmeter.dll
powrprof 6.00.3694.0 (dnsvr.021010-1930) 14.00 KB (14,336
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\powrprof.dll
printui 5.2.3694.0 (dnsvr.021010-1930) 529.50 KB (542,208 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\printui.dll
cfgmgr32 5.2.3694.0 (dnsvr.021010-1930) 17.00 KB (17,408
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\cfgmgr32.dll
drprov 5.2.3694.0 (dnsvr.021010-1930) 12.00 KB (12,288 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\drprov.dll

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ntlanman 5.2.3694.0 (dnssrv.021010-1930) 39.00 KB (39,936
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\ntlanman.dll
netui0 5.2.3694.0 (dnssrv.021010-1930) 73.50 KB (75,264 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\netui0.dll
netui1 5.2.3694.0 (dnssrv.021010-1930) 177.00 KB (181,248 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\netui1.dll
davclnt 5.2.3694.0 (dnssrv.021010-1930) 23.50 KB (24,064 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\davclnt.dll
shdoclc 6.00.3694.0 (dnssrv.021010-1930) 521.00 KB (533,504 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\shdoclc.dll
browselc 6.00.3694.0 (dnssrv.021010-1930) 61.50 KB (62,976
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\browselc.dll
zipfldr 6.00.3694.0 (dnssrv.021010-1930) 315.50 KB (323,072 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\zipfldr.dll
sqlmangr 2000.080.0731.00 72.57 KB (74,308 bytes)
10/24/2002 6:53 PM Microsoft Corporation c:\program
files\microsoft sql server\80\tools\bin\sqlmangr.exe
sqlunirl 2000.080.0728.00 176.56 KB (180,800 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\sqlunirl.dll
comdlg32 6.00.3694.0 (dnssrv.021010-1930) 257.00 KB (263,168
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\comdlg32.dll
w95scm 2000.080.0731.00 48.56 KB (49,728 bytes) 10/24/2002
6:53 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\w95scm.dll
odbc32 3.525.1014.0 212.00 KB (217,088 bytes) 10/11/2002 5:00 AM
Microsoft Corporation c:\windows\system32\odbc32.dll
sqlsvc 2000.080.0731.00 92.56 KB (94,784 bytes) 10/24/2002
6:53 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\sqlsvc.dll
odbcbc 2000.085.1014.00 24.00 KB (24,576 bytes) 10/11/2002
5:00 AM Microsoft Corporation c:\windows\system32\odbcbc.dll
sqlresld 2000.080.0382.00 28.56 KB (29,248 bytes)
10/24/2002 6:53 PM Microsoft Corporation c:\program
files\microsoft sql server\80\tools\bin\sqlresld.dll
odbcint 3.525.1014.0 92.00 KB (94,208 bytes) 10/11/2002 5:00 AM
Microsoft Corporation c:\windows\system32\odbcint.dll
resutils 5.2.3694.0 (dnssrv.021010-1930) 60.00 KB (61,440
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\resutils.dll
mfc42u 6.05.2224.0 960.00 KB (983,040 bytes) 10/11/2002 5:00 AM
Microsoft Corporation c:\windows\system32\mfc42u.dll
sqlsvc 2000.080.0194.00 24.00 KB (24,576 bytes) 10/24/2002
6:53 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\resources\1033\sqlsvc.rll
sqlmangr 2000.080.0194.00 96.00 KB (98,304 bytes)
10/24/2002 6:53 PM Microsoft Corporation c:\program
files\microsoft sql server\80\tools\bin\resources\1033\sqlmangr.rll

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netrap 5.2.3694.0 (dnssrv.021010-1930) 11.00 KB (11,264 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\netrap.dll
wpabaln 5.2.3694.0 (dnssrv.021010-1930) 31.00 KB (31,744 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\wpabaln.exe
cmd 5.2.3694.0 (dnssrv.021010-1930) 253.00 KB (259,072 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\cmd.exe
sqlservr 2000.080.0731.00 7.09 MB (7,434,280 bytes)
11/28/2002 10:10 AM Microsoft Corporation
c:\sql80\sqlbuilts\sql_11_26_02\11_26_02_alloc3\sqlservr.exe
opends60 2000.080.0194.00 24.06 KB (24,639 bytes)
10/24/2002 6:52 PM Microsoft Corporation
c:\sql80\mssql\bin\opends60.dll
ums 2000.080.0731.00 52.55 KB (53,808 bytes) 10/24/2002
6:52 PM Microsoft Corporation c:\sql80\mssql\bin\ums.dll
sqlsort 2000.080.0731.00 576.56 KB (590,396 bytes) 10/24/2002
6:52 PM Microsoft Corporation c:\sql80\mssql\bin\sqlsort.dll
msvcirt 7.0.3694.0 (dnssrv.021010-1930) 50.00 KB (51,200 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\msvcirt.dll
sqllevn70 2000.080.0731.00 28.00 KB (28,672 bytes)
10/24/2002 6:52 PM Microsoft Corporation
c:\sql80\mssql\bin\resources\1033\sqllevn70.rll
xolehlp 2001.12.4624.0 (dnssrv.021010-1930) 10.00 KB (10,240 bytes)
10/17/2002 2:25 PM Microsoft Corporation
c:\windows\system32\xolehlp.dll
msdtcprx 2001.12.4624.0 (dnssrv.021010-1930) 402.00 KB (411,648
bytes) 10/17/2002 2:25 PM Microsoft Corporation
c:\windows\system32\msdtcprx.dll
mtxclu 2001.12.4624.0 (dnssrv.021010-1930) 76.00 KB (77,824 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\mtxclu.dll
winrnr 5.2.3694.0 (dnssrv.021010-1930) 15.00 KB (15,360 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\winrnr.dll
ssnetlib 2000.080.0731.00 80.56 KB (82,492 bytes)
10/24/2002 6:52 PM Microsoft Corporation
c:\sql80\mssql\bin\ssnetlib.dll
ssnmpn70 2000.080.0534.00 24.56 KB (25,148 bytes)
10/24/2002 6:52 PM Microsoft Corporation
c:\sql80\mssql\bin\ssnmpn70.dll
security 5.2.3694.0 (dnssrv.021010-1930) 5.00 KB (5,120 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\security.dll
ssmslpcn 2000.080.0731.00 28.56 KB (29,244 bytes)
10/24/2002 6:52 PM Microsoft Corporation
c:\sql80\mssql\bin\ssmslpcn.dll
ssmsgnet 2000.080.0382.00 32.56 KB (33,340 bytes)
10/24/2002 6:53 PM Microsoft Corporation
c:\sql80\mssql\bin\ssmsgnet.dll
isqlw 2000.080.0731.00 344.56 KB (352,828 bytes) 10/24/2002
6:52 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\isqlw.exe
sqlgui 2000.080.0731.00 444.56 KB (455,232 bytes) 10/24/2002
6:53 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\sqlgui.dll

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imm32 5.2.3694.0 (dnsvr.021010-1930) 105.00 KB (107,520 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\imm32.dll
sqlqry 2000.080.0731.00 392.56 KB (401,984 bytes) 10/24/2002
6:52 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\sqlqry.dll
pfutil80 2000.080.0731.00 272.56 KB (279,104 bytes)
10/24/2002 6:53 PM Microsoft Corporation c:\program
files\microsoft sql server\80\tools\bin\pfutil80.dll
semsfc 2000.080.0731.00 228.56 KB (234,048 bytes) 10/24/2002
6:53 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\semsfc.dll
pfcInt80 2000.080.0731.00 404.56 KB (414,272 bytes)
10/24/2002 6:53 PM Microsoft Corporation c:\program
files\microsoft sql server\80\tools\bin\pfcInt80.dll
sqlgui 2000.080.0194.00 56.00 KB (57,344 bytes) 10/24/2002
6:53 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\resources\1033\sqlgui.rll
semsfc 2000.080.0194.00 24.00 KB (24,576 bytes) 10/24/2002
6:53 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\resources\1033\semsfc.rll
pfcInt80 2000.080.0194.00 28.00 KB (28,672 bytes)
10/24/2002 6:53 PM Microsoft Corporation c:\program
files\microsoft sql server\80\tools\bin\resources\1033\pfcInt80.rll

pfutil80 2000.080.0382.00 144.00 KB (147,456 bytes)
10/24/2002 6:53 PM Microsoft Corporation c:\program
files\microsoft sql server\80\tools\bin\resources\1033\pfutil80.rll

sqlqry 2000.080.0194.00 180.00 KB (184,320 bytes) 10/24/2002
6:52 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\resources\1033\sqlqry.rll
isqlw 2000.080.0382.00 240.00 KB (245,760 bytes) 10/24/2002
6:52 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\resources\1033\isqlw.rll
odbccp32 3.525.1014.0 100.00 KB (102,400 bytes) 10/11/2002
5:00 AM Microsoft Corporation c:\windows\system32\odbccp32.dll
sqllex 2000.080.0194.00 148.06 KB (151,616 bytes) 10/24/2002
6:53 PM Microsoft Corporation c:\program files\microsoft sql
server\80\tools\bin\sqllex.dll
sqlsrv32 2000.085.1014.00 380.00 KB (389,120 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\sqlsrv32.dll
sqlsrv32 2000.085.1014.00 88.00 KB (90,112 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\sqlsrv32.rll
dbnetlib 2000.085.1014 68.00 KB (69,632 bytes) 10/11/2002
5:00 AM Microsoft Corporation c:\windows\system32\dbnetlib.dll
dbmslpcn 2000.080.0731.00 28.56 KB (29,244 bytes)
10/24/2002 6:52 PM Microsoft Corporation
c:\windows\system32\dbmslpcn.dll
helpctr 5.2.3694.0 (dnsvr.021010-1930) 721.00 KB (738,304 bytes)
10/17/2002 2:29 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpctr.exe
hcappres 5.2.3694.0 (dnsvr.021010-1930) 6.50 KB (6,656 bytes)
10/17/2002 2:29 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\hcappres.dll

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itss 5.2.3694.0 (dnsvr.021010-1930) 119.50 KB (122,368 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\itss.dll
msxml3 8.40.9127.0 1.06 MB (1,107,456 bytes) 10/11/2002 5:00 AM
Microsoft Corporation c:\windows\system32\msxml3.dll
pchshell 5.2.3694.0 (dnsvr.021010-1930) 94.50 KB (96,768
bytes) 10/17/2002 2:29 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\pchshell.dll
mlang 6.00.3694.0 (dnsvr.021010-1930) 568.50 KB (582,144 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\mlang.dll
mshtml 6.00.3694.0 (dnsvr.021010-1930) 2.58 MB (2,707,968 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
msimtf 5.2.3694.0 (dnsvr.021010-1930) 146.50 KB (150,016 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\msimtf.dll
msctf 5.2.3694.0 (dnsvr.021010-1930) 276.50 KB (283,136 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\msctf.dll
jscript 5.6.0.8028 412.00 KB (421,888 bytes) 10/11/2002 5:00 AM
Microsoft Corporation c:\windows\system32\jscript.dll
msls31 3.10.349.0 136.50 KB (139,776 bytes) 10/11/2002 5:00 AM
Microsoft Corporation c:\windows\system32\msls31.dll
mshtml 6.00.3694.0 (dnsvr.021010-1930) 428.00 KB (438,272
bytes) 10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\mshtml.dll
vbscript 5.6.0.8028 384.00 KB (393,216 bytes) 10/11/2002
5:00 AM Microsoft Corporation c:\windows\system32\vbscript.dll
mfc42 6.05.2224.0 960.00 KB (983,040 bytes) 10/11/2002 5:00 AM
Microsoft Corporation c:\windows\system32\mfc42.dll
msinfo 5.2.3694.0 (dnsvr.021010-1930) 358.50 KB (367,104 bytes)
10/17/2002 2:29 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\msinfo.dll
riched32 5.2.3694.0 (dnsvr.021010-1930) 3.00 KB (3,072 bytes)
10/11/2002 5:00 AM Microsoft Corporation
c:\windows\system32\riched32.dll
riched20 5.31.23.1218 396.50 KB (406,016 bytes) 10/11/2002
5:00 AM Microsoft Corporation c:\windows\system32\riched20.dll
helpsvc 5.2.3694.0 (dnsvr.021010-1930) 686.50 KB (702,976 bytes)
10/17/2002 2:29 PM Microsoft Corporation
c:\windows\pchealth\helpctr\binaries\helpsvc.exe

```

[Services]

Display Name	Name	State	Start	Mode	Service Type	Path	Error
Control Start	Name	Tag ID					
Alerter	Alerter	Stopped	Disabled		Share Process	c:\windows\system32\svchost.exe -k localservice	Normal NT
AUTHORITY\LocalService 0							
Application Layer Gateway Service				ALG	Stopped Manual Own Process	c:\windows\system32\alg.exe	Normal NT AUTHORITY\LocalService 0
Application Management AppMgmt Stopped Manual Share Process							
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem 0							
Windows Audio	AudioSrv	Stopped	Disabled		Share Process	c:\windows\system32\svchost.exe -k netsvcs	Normal LocalSystem 0


```

Background Intelligent Transfer Service BITS Stopped Manual Share
Process c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Computer Browser Browser Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Indexing Service CiSvc Stopped Manual Share Process
c:\windows\system32\cisvc.exe Normal LocalSystem 0
ClipBook ClipSrv Stopped Disabled Own Process
c:\windows\system32\clipsrv.exe Normal LocalSystem 0

COM+ System Application COMSysApp Stopped Manual Own Process
c:\windows\system32\dllhost.exe /processid:{02d4b3f1-fd88-11d1-
960d-00805fc79235} Normal LocalSystem 0
Cryptographic Services CryptSvc Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Distributed File System Dfs Stopped Manual Own Process
c:\windows\system32\dfsrv.exe Normal LocalSystem 0

DHCP Client Dhcp Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k networkservice Normal NT
AUTHORITY\NetworkService 0
Logical Disk Manager Administrative Service dmadm Stopped Manual Share
Process c:\windows\system32\dmadmin.exe /com Normal LocalSystem 0

Logical Disk Manager dmserver Running Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
DNS Client Dnscache Stopped Manual Share Process
c:\windows\system32\svchost.exe -k networkservice Normal NT
AUTHORITY\NetworkService 0
Error Reporting Service ERSvc Stopped Manual Share Process
c:\windows\system32\svchost.exe -k winerr Ignore LocalSystem
0
Console Manager Network Connection Co-Installer ESCOINST
Stopped Disabled Own Process
c:\windows\system32\escoinst.dll Normal LocalSystem 0

Console Manager ESCONMGR Running Auto Own Process
c:\windows\system32\esconmgr.exe Normal LocalSystem 0

Event Log Eventlog Running Auto Share Process
c:\windows\system32\services.exe Normal LocalSystem 0

COM+ Event System EventSystem Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
cLAN Connection Manager GniConMgr Running Auto Own Process
c:\windows\system32\gnconmgr.exe Normal LocalSystem 0

Help and Support helpsvc Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Human Interface Device Access HidServ Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
HTTP SSL HTTPFilter Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0

```

```

IMAPI CD-Burning COM Service ImapiService Stopped Disabled Own
Process c:\windows\system32\imapi.exe Normal LocalSystem 0
InterSite Messaging IsmServ Stopped Disabled Own Process
c:\windows\system32\ismsserv.exe Normal LocalSystem 0

Kerberos Key Distribution Center kdc Stopped Disabled Share
Process c:\windows\system32\lsass.exe Normal LocalSystem 0
Server lanmanserver Running Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Workstation lanmanworkstation Running Auto Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
License Logging LicenseService Stopped Manual Own Process
c:\windows\system32\llssrv.exe Normal NT
AUTHORITY\NetworkService 0
TCP/IP NetBIOS Helper LmHosts Stopped Manual Share Process
c:\windows\system32\svchost.exe -k localservice Normal NT
AUTHORITY\LocalService 0
Messenger Messenger Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
NetMeeting Remote Desktop Sharing mnmsrvc Stopped Disabled Own
Process c:\windows\system32\mnmsrvc.exe Normal LocalSystem 0

Distributed Transaction Coordinator MSDTC Running Auto Own Process
c:\windows\system32\msdtc.exe Normal NT AUTHORITY\NetworkService
0
Windows Installer MSIServer Stopped Manual Share Process
c:\windows\system32\msiexec.exe /v Normal LocalSystem 0

MSSQLSERVER MSSQLSERVER Stopped Manual Own Process
c:\sql80\mssql\bin\sqlservr.exe Normal LocalSystem 0

MSSQLServerADHelper MSSQLServerADHelper Stopped Manual Own Process
c:\program files\microsoft sql server\80\tools\bin\sqladhlp.exe
Normal LocalSystem 0
Network DDE NetDDE Stopped Disabled Share Process
c:\windows\system32\netdde.exe Normal LocalSystem 0

Network DDE DSDM NetDDEdsdm Stopped Disabled Share Process
c:\windows\system32\netdde.exe Normal LocalSystem 0

Net Logon Netlogon Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Network Connections Netman Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Network Location Awareness (NLA) Nla Running Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0
File Replication NtFrs Stopped Manual Own Process
c:\windows\system32\ntfrs.exe Ignore LocalSystem 0
NT LM Security Support Provider NtLmSsp Stopped Manual Share Process
c:\windows\system32\lsass.exe Normal LocalSystem 0
Removable Storage NtmsSvc Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0

```

Plug and Play	PlugPlay	Running	Auto	Share Process			
	c:\windows\system32\services.exe			Normal	LocalSystem	0	
IPSEC Services	PolicyAgent	Stopped	Manual	Share Process			
	c:\windows\system32\lsass.exe	Normal		LocalSystem	0		
Protected Storage	ProtectedStorage	Running	Auto	Share Process			
	c:\windows\system32\lsass.exe	Normal		LocalSystem	0		
Remote Access	Auto Connection Manager	RasAuto	Stopped	Manual	Share Process		
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Remote Access	Connection Manager	RasMan	Stopped	Manual	Share Process		
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Remote Desktop	Help Session Manager	RDSessMgr	Stopped	Manual	Own		
Process	c:\windows\system32\sessmgr.exe		Normal	LocalSystem	0		
Routing and Remote	Access	RemoteAccess	Stopped	Disabled	Share		
Process	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Remote Registry	RemoteRegistry	Running	Auto	Share Process			
	c:\windows\system32\svchost.exe	-k regsvc	Normal	NT			
AUTHORITY\LocalService							
Remote Procedure Call (RPC)	Locator	RpcLocator	Stopped	Manual	Own		
Process	c:\windows\system32\locator.exe		Normal	NT			
AUTHORITY\NetworkService							
Remote Procedure Call (RPC)	RpcSs	Running	Auto	Share Process			
	c:\windows\system32\svchost.exe	-k rpcss	Normal	LocalSystem	0		
Resultant Set of Policy	Provider	RSOPProv	Stopped	Manual	Share		
Process	c:\windows\system32\rsopprov.exe		Normal	LocalSystem	0		
Special Administration	Console Helper	sacsvr	Stopped	Manual	Share Process		
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Security Accounts Manager	SamSs	Running	Auto	Share Process			
	c:\windows\system32\lsass.exe	Normal		LocalSystem	0		
Smart Card	SCardSvr	Stopped	Manual	Share Process			
	c:\windows\system32\scardsvr.exe		Ignore	NT			
AUTHORITY\LocalService							
Task Scheduler	Schedule	Stopped	Manual	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Secondary Logon	seclogon	Running	Auto	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Ignore	LocalSystem	0		
System Event Notification	SENS	Running	Auto	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Shell Hardware Detection	ShellHWDetection	Running	Auto	Share			
Process	c:\windows\system32\svchost.exe	-k netsvcs	Ignore	LocalSystem	0		
Print Spooler	Spooler	Stopped	Manual	Own Process			
	c:\windows\system32\spoolsv.exe		Normal	LocalSystem	0		
SQLSERVERAGENT	SQLSERVERAGENT	Stopped	Manual	Own Process			
	c:\sql80\mssql\bin\sqlagent.exe		Normal	LocalSystem	0		

Windows Image Acquisition (WIA)	stisvc	Stopped	Disabled	Share			
Process	c:\windows\system32\svchost.exe	-k imgsvc	Normal	NT			
AUTHORITY\LocalService							
Microsoft Software Shadow Copy Provider	swprv	Stopped	Manual	Own			
Process	c:\windows\system32\svchost.exe	-k swprv	Normal	LocalSystem	0		
Performance Logs and Alerts	SysmonLog	Stopped	Manual	Own Process			
	c:\windows\system32\smlogsvc.exe		Normal	NT			
Authority\NetworkService							
Telephony	TapiSrv	Stopped	Manual	Share Process			
	c:\windows\system32\svchost.exe	-k tapisrv	Normal	LocalSystem	0		
Terminal Services	TermService	Running	Manual	Share Process			
	c:\windows\system32\svchost.exe	-k termsvcs	Normal	LocalSystem	0		
Themes	Themes	Stopped	Disabled	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Telnet	TlntSvr	Stopped	Disabled	Own Process			
	c:\windows\system32\tlntsvr.exe		Normal	NT			
AUTHORITY\LocalService							
Distributed Link Tracking Server	TrkSvr	Stopped	Disabled	Share			
Process	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Distributed Link Tracking Client	TrkWks	Stopped	Manual	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Terminal Services Session Directory	Tssdis	Stopped	Disabled	Own			
Process	c:\windows\system32\tssdis.exe		Normal	LocalSystem	0		
Upload Manager	uploadmgr	Stopped	Disabled	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Uninterruptible Power Supply	UPS	Stopped	Manual	Own Process			
	c:\windows\system32\ups.exe		Normal	NT	AUTHORITY\LocalService		
Virtual Disk Service	vds	Stopped	Manual	Own Process			
	c:\windows\system32\vds.exe		Normal	LocalSystem	0		
Volume Shadow Copy	VSS	Stopped	Manual	Own Process			
	c:\windows\system32\vssvc.exe		Normal	LocalSystem	0		
Windows Time	W32Time	Stopped	Manual	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
WebClient	WebClient	Stopped	Manual	Share Process			
	c:\windows\system32\svchost.exe	-k localservice	Normal	NT			
AUTHORITY\LocalService							
WinHTTP Web Proxy Auto-Discovery Service	WinHttpAutoProxySvc	Stopped	Manual	Share Process			
	c:\windows\system32\svchost.exe	-k localservice	Normal	NT	AUTHORITY\LocalService	0	
Windows Management Instrumentation	winmgmt	Running	Auto	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Ignore	LocalSystem	0		
Portable Media Serial Number	WmdmPmSp	Stopped	Manual	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		
Windows Management Instrumentation Driver Extensions	Wmi	Stopped	Manual	Share Process			
	c:\windows\system32\svchost.exe	-k netsvcs	Normal	LocalSystem	0		

```

WMI Performance Adapter      WmiApSrv      Stopped Manual Own Process
c:\windows\system32\wbem\wmiapsrv.exe Normal LocalSystem 0

Automatic Updates          wuauclt      Stopped Manual Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0

Wireless Configuration WZCSCV Stopped Disabled Share Process
c:\windows\system32\svchost.exe -k netsvcs Normal LocalSystem
0

```

[Program Groups]

```

Group Name Name User Name
Accessories Default User:Accessories Default User
Accessories\Accessibility Default User:Accessories\Accessibility
Default User
Accessories\Entertainment Default User:Accessories\Entertainment
Default User
Startup Default User:Startup Default User
Accessories All Users:Accessories All Users
Accessories\Accessibility All Users:Accessories\Accessibility All
Users
Accessories\Communications All Users:Accessories\Communications All
Users
Accessories\Entertainment All Users:Accessories\Entertainment All
Users
Accessories\System Tools All Users:Accessories\System Tools All
Users
Administrative Tools All Users:Administrative Tools All Users

Debugging Tools for Windows All Users:Debugging Tools for Windows All
Users
GigaNet All Users:GigaNet All Users
Microsoft SQL Server All Users:Microsoft SQL Server All Users

Microsoft SQL Server - Switch All Users:Microsoft SQL Server - Switch
All Users
Startup All Users:Startup All Users
Accessories NT AUTHORITY\SYSTEM:Accessories NT AUTHORITY\SYSTEM

```

```

Accessories\Accessibility NT
AUTHORITY\SYSTEM:Accessories\Accessibility NT AUTHORITY\SYSTEM
Accessories\Entertainment NT
AUTHORITY\SYSTEM:Accessories\Entertainment NT AUTHORITY\SYSTEM
Startup NT AUTHORITY\SYSTEM:Startup NT AUTHORITY\SYSTEM
Accessories MV-LE030P1\Administrator:Accessories MV-
LE030P1\Administrator
Accessories\Accessibility MV-
LE030P1\Administrator:Accessories\Accessibility MV-
LE030P1\Administrator
Accessories\Entertainment MV-
LE030P1\Administrator:Accessories\Entertainment MV-
LE030P1\Administrator
Administrative Tools MV-LE030P1\Administrator:Administrative Tools
MV-LE030P1\Administrator
Startup MV-LE030P1\Administrator:Startup MV-LE030P1\Administrator

```

[Startup Programs]

```

Program Command User Name Location
desktop desktop.ini NT AUTHORITY\SYSTEM Startup
desktop desktop.ini MV-LE030P1\Administrator Startup
desktop desktop.ini .DEFAULT Startup
desktop desktop.ini All Users Common Startup
IDW Logging Tool c:\windows\system32\idwlog.exe -3 All Users
Common Startup
Service Manager c:\progra~1\microso~1\80\tools\binn\sqlmangr.exe /n
All Users Common Startup

```

[OLE Registration]

```

Object Local Server
Sound (OLE2) sndrec32.exe
Media Clip mplay32.exe
Video Clip mplay32.exe /avi
MIDI Sequence mplay32.exe /mid
Sound Not Available
Media Clip Not Available
Windows Media Player 7 Not Available
WordPad Document "%programfiles%\windows nt\accessories\wordpad.exe"

Windows Media Services DRM Storage object Not Available
Bitmap Image mspaint.exe

```

[Windows Error Reporting]

[Internet Settings]

[Internet Explorer]

[Following are sub-categories of this main category]
[Summary]

```

Item Value
Version 6.0.3694.0
Build 63694
Application Path C:\Program Files\Internet Explorer
Language English (United States)
Active Printer Not Available

```

```

Cipher Strength 128-bit
Content Advisor Disabled
IEAK Install No

```

[File Versions]

```

File Version Size Date Path Company
actxprxy.dll 6.0.3694.0 92 KB 10/11/2002 4:00:00 AM
Microsoft Corporation
advpack.dll 6.0.3694.0 94 KB 10/11/2002 4:00:00 AM
Microsoft Corporation
asctrls.ocx 6.0.3694.0 90 KB 10/11/2002 4:00:00 AM
Microsoft Corporation

```

```

browsecl.dll 6.0.3694.0 62 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
browseui.dll 6.0.3694.0 1,005 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
cdfview.dll 6.0.3694.0 142 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
comctl32.dll 5.82.3694.0 561 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
dxtrans.dll 6.3.3694.0 185 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
dxtmsft.dll 6.3.3694.0 347 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iecont.dll <File Missing> Not Available Not Available Not Available
iecontlc.dll <File Missing> Not Available Not Available Not Available
iedkcs32.dll 16.0.3694.0 296 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iepeers.dll 6.0.3694.0 230 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
iesetup.dll 6.0.3694.0 57 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
ieuinit.inf Not Available 19 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Not Available
iexplore.exe 6.0.3694.0 90 KB 10/11/2002 4:00:00 AM C:\Program
Files\Internet Explorer Microsoft Corporation
imgutil.dll 6.0.3694.0 31 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inetcpl.cpl 6.0.3694.0 294 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inetcplc.dll 6.0.3694.0 108 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
inseng.dll 6.0.3694.0 71 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mlang.dll 6.0.3694.0 569 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msencode.dll 2000.7.25.0 92 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Not Available
mshta.exe 6.0.3694.0 27 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.dll 6.0.3694.0 2,645 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.tlb 6.0.3694.0 1,319 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtml.ed.dll 6.0.3694.0 428 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mshtmlr.dll 6.0.3694.0 55 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msident.dll 6.0.3694.0 47 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msidntld.dll 6.0.3694.0 15 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msieftp.dll 6.0.3694.0 230 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
msrating.dll 6.0.3694.0 132 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
mstime.dll 6.0.3694.0 491 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation

```

```

occache.dll 6.0.3694.0 89 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
proctexe.ocx 6.3.3694.0 78 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Intel Corporation
sendmail.dll 6.0.3694.0 52 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdoclc.dll 6.0.3694.0 521 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shdocvw.dll 6.0.3694.0 1,319 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shfolder.dll 6.0.3694.0 24 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
shlwapi.dll 6.0.3694.0 267 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
tdc.ocx 1.3.0.3130 57 KB 10/11/2002 4:00:00 AM C:\WINDOWS\system32
Microsoft Corporation
url.dll 6.0.3694.0 36 KB 10/11/2002 4:00:00 AM C:\WINDOWS\system32
Microsoft Corporation
urlmon.dll 6.0.3694.0 449 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
webcheck.dll 6.0.3694.0 258 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation
wininet.dll 6.0.3694.0 570 KB 10/11/2002 4:00:00 AM
C:\WINDOWS\system32 Microsoft Corporation

```

[Connectivity]

```

Item Value
Connection Preference Never dial

```

LAN Settings

```

AutoConfigProxy Not Available
AutoProxyDetectMode Disabled
AutoConfigURL
Proxy Disabled
ProxyServer
ProxyOverride

```

[Cache]

```

[ Following are sub-categories of this main category ]
[Summary]

```

```

Item Value
Page Refresh Type Automatic
Temporary Internet Files Folder C:\Documents and
Settings\NetworkService\Local Settings\Temporary Internet Files
Total Disk Space Not Available
Available Disk Space Not Available
Maximum Cache Size Not Available
Available Cache Size Not Available

```

[List of Objects]

```

Program File Status CodeBase
No cached object information available

```

[Content]

[Following are sub-categories of this main category]
[Summary]

Item	Value
Content Advisor	Disabled

[Personal Certificates]

Issued To	Issued By	Validity	Signature	Algorithm
No personal certificate information available				

[Other People Certificates]

Issued To	Issued By	Validity	Signature	Algorithm
No other people certificate information available				

[Publishers]

Name
No publisher information available

[Security]

Zone	Security Level
My Computer	Custom
Local intranet	Medium-low
Trusted sites	Low
Internet	Medium
Restricted sites	High

Windows Datacenter Server Registry Information

Software\GigaNet

Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\cLAN Management Console]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\cLAN Management Console\1.00.000]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\0]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\0\BeginModify]
@="10:05:56"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\0\Fabric]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\0\LastModified]
@="10:05:56"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\0\NodeList]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\0\NodeList\Node0]
"Name"="MV-LE030P1"
"NICName"="gnivia0"
"Address"="0090FA001C0F"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n2"
"NodeNumber"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\0\NodeList\Node2]
"Name"="CLIENT4"
"NICName"="nic0"
"Address"="0090FA001D14"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n1"
"NodeNumber"=dword:00000002

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\1]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\1\BeginModify]
@="10:05:56"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\1\Fabric]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\1\LastModified]
@="10:05:56"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\1\NodeList]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\1\NodeList\Node0]
"Name"="MV-LE030P1"
"NICName"="gnivial"
"Address"="0090FA001C8C"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n2"
"NodeNumber"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\1\NodeList\Node2]
"Name"="CLIENT8"
"NICName"="nic0"
"Address"="0090FA001D12"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n1"
"NodeNumber"=dword:00000002

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\2]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\2\BeginModify]
@="10:05:56"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\2\Fabric]

```
[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\2\LastModified]
@="10:05:56"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\2\NodeList]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\2\NodeList\Node0]
"Name"="MV-LE030P1"
"NICName"="gnivia2"
"Address"="0090FA001C5D"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n1"
"NodeNumber"=dword:00000002

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\2\NodeList\Node1]
"Name"="CLIENT1"
"NICName"="nic0"
"Address"="0090FA00136E"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n2"
"NodeNumber"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\3]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\3\BeginModify]
@="10:05:55"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\3\Fabric]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\3\LastModified]
@="10:05:55"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\3\NodeList]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\3\NodeList\Node0]
"Name"="MV-LE030P1"
"NICName"="gnivia3"
"Address"="0090FA001C34"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n2"
"NodeNumber"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\3\NodeList\Node2]
"Name"="CLIENT2"
"NICName"="nic0"
"Address"="0090FA001CBB"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n1"
"NodeNumber"=dword:00000002

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\4]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\4\BeginModify]
@="10:05:55"
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\4\Fabric]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\4\LastModified]
@="10:05:55"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\4\NodeList]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\4\NodeList\Node0]
"Name"="MV-LE030P1"
"NICName"="gnivia4"
"Address"="0090FA001C15"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n2"
"NodeNumber"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\4\NodeList\Node2]
"Name"="CLIENT3"
"NICName"="nic0"
"Address"="0090FA001CB5"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n1"
"NodeNumber"=dword:00000002

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\5]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\5\BeginModify]
@="10:05:55"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\5\Fabric]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\5\LastModified]
@="10:05:55"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\5\NodeList]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\5\NodeList\Node0]
"Name"="MV-LE030P1"
"NICName"="gnivia5"
"Address"="0090FA00159A"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n2"
"NodeNumber"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\5\NodeList\Node2]
"Name"="CLIENT7"
"NICName"="nic0"
"Address"="0090FA001D1D"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n1"
"NodeNumber"=dword:00000002

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\6]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\6\BeginModify]
@="10:05:56"
```

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[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\6\Fabric]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\6\LastModified]
@="10:05:56"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\6\NodeList]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\6\NodeList\Node0]
"Name"="MV-LE030P1"
"NICName"="gnivia6"
"Address"="0090FA001C45"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n2"
"NodeNumber"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\6\NodeList\Node2]
"Name"="CLIENT6"
"NICName"="nic0"
"Address"="0090FA001CD7"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n1"
"NodeNumber"=dword:00000002

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\7]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\7\BeginModify]
@="10:05:56"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\7\Fabric]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\7\LastModified]
@="10:05:56"

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\7\NodeList]

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\7\NodeList\Node0]
"Name"="MV-LE030P1"
"NICName"="gnivia7"
"Address"="0090FA0014BC"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n2"
"NodeNumber"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\7\NodeList\Node2]
"Name"="CLIENT5"
"NICName"="nic0"
"Address"="0090FA001D11"
"MediaType"=""
"State"=dword:00000001
"SwitchPort"="n1"
"NodeNumber"=dword:00000002

[HKEY_LOCAL_MACHINE\SOFTWARE\GigaNet\GniConMgrMgmt2\LastModified]
@="07:19:04"
```

Software\Microsoft\MSSQLServer

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer]

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client]
"SharedMemoryOn"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\ConnectTo]
"DSQUERY"="DBNETLIB"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\DB-Lib]
"AutoAnsiToOem"="ON"
"UseIntlSettings"="ON"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib]
"ProtocolOrder"=hex(7):74,00,63,00,70,00,00,00,6e,00,70,00,00,00,00,00
"Encrypt"=dword:00000000

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib\LastConnect]
"MV-LE030P1"="-1040187384:lpc:MV-LE030P1"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib\Np]
"DefaultPipe"="sql\query"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib\rpc]
"RPCProtocols"=hex(7):6e,00,6c,00,72,00,70,00,63,00,00,00,6e,00,61,00,63,00,5f,00,6e,00,70,00,00,00,6e,00,61,00,63,00,6e,00,5f,00,69,00,70,00,5f,00,74,00,63,00,70,00,00,00,6e,00,61,00,63,00,6e,00,5f,00,73,00,70,00,78,00,00,00,00,00
"DefaultPort"=dword:00000599

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib\Tcp]
"DefaultPort"=dword:00000599

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\SuperSocketNetLib\Via]

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer]
"ListenOn"=hex(7):53,00,53,00,4d,00,53,00,53,00,48,00,37,00,30,00,00,00,53,00,4e,00,45,00,54,00,4c,00,49,00,42,00,00,00,00,00
"ResourceMgrID"="{1BDD8E80-91D5-41A5-9E10-EE1B83916AD1}"
"SetHostName"=dword:00000000
"AuditLevel"=dword:00000000
>LoginMode"=dword:00000002
```

```

"Tapeloadwaittime"=dword:fffffff
"DefaultLogin"="guest"
"Map_"=""
"Map#"=""
"Map$"=""
"BackupDirectory"="c:\\sql80\\MSSQL\\BACKUP"
"DefaultDomain"="MV-LE030P1"
"DefaultCollationName"="Latin1_General_BIN"
"uptime_pid"=dword:0000400
"uptime_time_utc"=hex:22,5a,9d,ea,00,9b,c2,01

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\CurrentVersion]
"checksum"=hex:37,39,32,32,63,31,35,38,61,65,37,64,34,63,64,37,35,30,64,61,30,34,62,37,64,63,33,37,61,31,64,30,66,38,33,63,38,61,63,65,32,39,63,38,62,30,30,38,31,36,64,32,38,32,63,61,34,38,31,33,34,36,32,39,38,66,33,38,65,31,33,63,34,39,39,63,32,34,63,30,64,34,64,37,66,65,31,37,31,63,32,61,37,66,30,34,39,34,30,31,65,66,61,36,33,65,34,33,34,36,39,38,37,36,65,32,65,64,34,33,37,36,34,32,65,61,36,35,65,64,33,30,35,62,34,39,30,61,63,37,38,64,37,63,30,61,38,38,30,65,32,32,38,62,39,63,61,64,39,00
"RegisteredOwner"="TRACKS"
"SerialNumber"=dword:81fd0040
"CurrentVersion"="8.00.194"
"Language"=dword:0000409
"CSDVersionNumber"=dword:00000300
"CSDVersion"="8.00.731"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\Parameters]
"SQLArg0"="-dc:\\sql80\\MSSQL\\data\\master.mdf"
"SQLArg1"="-ec:\\sql80\\MSSQL\\log\\ERRORLOG"
"SQLArg2"="-lc:\\sql80\\MSSQL\\data\\mastlog.ldf"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\RPCNetLib]
"Security"=""

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocketNetLib]
"ProtocolList"=hex(7):6e,00,70,00,00,00,76,00,69,00,61,00,00,00,00,00,00
"Encrypt"=dword:00000000

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocketNetLib\Np]
"PipeName"="\\\\.\\pipe\\sql\\query"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocketNetLib\Tcp]
"TcpHideFlag"=dword:00000000
"TcpPort"="1433"

"TcpDynamicPorts"=""

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\MSSQLServer\SuperSocketNetLib\Via]
"Vendor"="Giganet"
"ListenInfo"="0:1424[0x0000f000],1:1428[0xf0000000],2:1421[0x000000f],3:1422[0x000000f0],4:1423[0x0000f00],5:1427[0x0f000000],6:1426[0x00f00000],7:1425[0x000f0000]"
"RecognizedVendors"=hex(7):47,00,69,00,67,00,61,00,6e,00,65,00,74,00,00,00,53,50,65,00,72,00,76,00,65,00,72,00,4e,00,65,00,74,00,20,00,49,00,49,00,00,00,51,00,4c,00,6f,00,67,00,69,00,63,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\ADSDSOObject]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\DB2OLEDB]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\Microsoft.Jet.OLEDB.4.0]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSDAORA]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSDASQL]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSIDXS]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSQLImpProv]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\MSSEARCHSQL]
"AllowInProcess"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Providers\SQLOLEDB]
"AllowInProcess"=dword:00000001
"DisallowAdhocAccess"=dword:00000000

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Setup]
"SQLPath"="c:\\sql80\\MSSQL"
"SQLDataRoot"="c:\\sql80\\MSSQL"
"SourcePath"="C:\\SQL80\\SQLbuilds\\SQL_731_02\\SP3"
"firststart"=dword:00000000
"Scripts"=hex(7):73,00,70,00,33,00,5f,00,73,00,65,00,72,00,76,00,5f,00,75,00,6e,00,69,00,2e,00,73,00,71,00,6c,00,00,00,38,00,30,00,73,00,70,00,33,00,2d,00,53,00,72,00,76,00,65,00,72,00,4e,00,65,00,74,00,20,00,49,00,49,00,00,00,51,00,4c,00,6f,00,67,00,69,00,63,00,00,00,00,00

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00,74,00,6f,00,6f,00,6c,00,73,00,2e,00,73,00,71,00,6c,00,00,00,72,00,65,00
,\
70,00,6c,00,73,00,79,00,73,00,2e,00,73,00,71,00,6c,00,00,00,72,00,65,00,70
,\
00,6c,00,63,00,6f,00,6d,00,2e,00,73,00,71,00,6c,00,00,00,72,00,65,00,70,00
,\
6c,00,74,00,72,00,61,00,6e,00,2e,00,73,00,71,00,6c,00,00,00,72,00,65,00,70
,\
00,6c,00,6d,00,65,00,72,00,67,00,2e,00,73,00,71,00,6c,00,00,00,72,00,65,00
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6d,00,6f,00,76,00,65,00,5f,00,6f,00,6c,00,64,00,5f,00,6d,00,73,00,78,00,5f
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00,61,00,63,00,63,00,6f,00,75,00,6e,00,74,00,73,00,2e,00,73,00,71,00,6c,00
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00,00,73,00,70,00,5f,00,76,00,75,00,70,00,67,00,72,00,61,00,64,00,65,00,5f
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00,72,00,65,00,70,00,6c,00,69,00,63,00,61,00,74,00,69,00,6f,00,6e,00,3a,00
,\
40,00,6c,00,6f,00,67,00,69,00,6e,00,3d,00,4e,00,27,00,73,00,61,00,27,00,2c
,\
00,40,00,70,00,61,00,73,00,73,00,77,00,6f,00,72,00,64,00,3d,00,4e,00,27,00
,\
27,00,2c,00,40,00,76,00,65,00,72,00,5f,00,6f,00,6c,00,64,00,3d,00,31,00,39
,\
00,34,00,00,00,00,00,00
"EnableErrorReporting"=dword:00000000

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\SQLServerAgent]
"JobHistoryMaxRowsPerJob"=dword:00000064
"RestartServer"=dword:00000001
"DownloadedMaxRows"=dword:00000064
"JobHistoryMaxRows"=dword:000003e8
"ErrorLoggingLevel"=dword:00000003
"NonAlertableErrors"="1204,4002"
"MSXServerName"=""
"ServerHost"=""
"WorkingDirectory"="c:\sql80\MSSQL\JOBS"
"ErrorLogFile"="c:\sql80\MSSQL\LOG\SQLAGENT.OUT"
"SysAdminOnly"=dword:00000001

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\SQLServerAgent\Subsystems]
"CmdExec"="c:\sql80\MSSQL\BINN\SQLCMDSS.DLL,NULL,CmdExecStart,CmdEvent,CmdExecStop,10"
"Snapshot"="c:\sql80\MSSQL\BINN\SQLREPSS.DLL,C:\Program Files\Microsoft SQL Server\80\COM\SNAPSHOT.EXE,ReplStart,ReplEvent,ReplStop,100"

```

```

"Distribution"="c:\sql80\MSSQL\BINN\SQLREPSS.DLL,C:\Program Files\Microsoft SQL Server\80\COM\DISTRIB.EXE,ReplStart,ReplEvent,ReplStop,100"
"Merge"="c:\sql80\MSSQL\BINN\SQLREPSS.DLL,C:\Program Files\Microsoft SQL Server\80\COM\REPLMERG.EXE,ReplStart,ReplEvent,ReplStop,100"
"ActiveScripting"="c:\sql80\MSSQL\BINN\SQLATXSS.DLL,NULL,ActiveScriptStart,ActiveScriptEvent,ActiveScriptStop,10"
"QueueReader"="c:\sql80\MSSQL\BINN\SQLREPSS.DLL,C:\Program Files\Microsoft SQL Server\80\COM\QRDRSVC.EXE,ReplStart,ReplEvent,ReplStop,100"
"LogReader"="c:\sql80\MSSQL\BINN\SQLREPSS.DLL,C:\Program Files\Microsoft SQL Server\80\COM\LOGREAD.EXE,ReplStart,ReplEvent,ReplStop,25"

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Tracking]
"{E07FDDA4-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDA5-5A21-11d2-9DAD-00C04F79D434}"=""
"{6DC86044-0C71-11d3-9E18-00C04F79D434}"=""
"{E07FDDA8-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDA9-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDAA-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDAC-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDAD-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDAF-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDB2-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDBE-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDC0-5A21-11d2-9DAD-00C04F79D434}"=""
"{E07FDDBF-5A21-11d2-9DAD-00C04F79D434}"=""

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Tracking\Shortcuts]
"Enterprise Manager"=""
"Query Analyzer"=""
"Profiler"=""
"Client Network Utility"=""
"Configure SQL XML Support in IIS"=""
"Import and Export Data"=""
"Service Manager"=""
"Server Network Utility"=""
"Books Online"=""

```

CurrentControlSet\Control\Session Manager\I/O System

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```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\I/O System]
"CountOperations"=dword:00000000

```

CurrentControlSet\Services\Dasd

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```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dasd]

```

```
"Type"=dword:00000001
"Start"=dword:00000000
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,4
4,00,\
52,00,49,00,56,00,45,00,52,00,53,00,5c,00,64,00,61,00,73,00,64,00,2e,00,73
,\
00,79,00,73,00,00,00
"DisplayName"="IntelliFibre Fabric Disk Driver (dasd)"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dasd\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00
,02,\
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00
,\
00,00,02,00,60,00,04,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00
,\
05,12,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,05,20,00,00,00
,\
20,02,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,05,0b,00,00,00,00
,\
00,18,00,fd,01,02,00,01,02,00,00,00,00,05,20,00,00,23,02,00,00,01,01
,\
00,00,00,00,00,05,12,00,00,01,01,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Dasd\Enum]
"0"="Root\LEGACY_DASD\0000"
"Count"=dword:00000087
"NextInstance"=dword:00000087
"1"="SCSI\Disk&Ven_DGC RAID_10 0841\1&1a590e2c&0&C3530240600
10650000000000000000"
"2"="SCSI\Disk&Ven_DGC RAID_10 0841\1&1a590e2c&0&C3530240600
10650000000000000000"
"3"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
10650000000000000000A000"
"4"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
106500000000000000009000"
"5"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
106500000000000000008000"
"6"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
106500000000000000007000"
"7"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
106500000000000000006000"
"8"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
106500000000000000005000"
"9"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
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"17"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5243FB4060
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"40"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5243FB4060
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"105"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&512103406
8010650000000000000000A000"
"106"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&BC0B03406
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"107"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&512103406
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"109"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&C35302406
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"124"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&512103406
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"125"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&586001406
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```

```

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"131"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&BC0B03406
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"132"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&586001406
00106500000000000000000000"
"133"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&5F4303406
00106500000000000000000000"
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00106500000000000000000000"

```

CurrentControlSet\Services\GniConMgr

Windows Registry Editor Version 5.00

```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniConMgr]
"Type"=dword:00000010
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):25,00,53,00,79,00,73,00,74,00,65,00,6d,00,52,00,6f,00,6
f,00,\
74,00,25,00,5c,00,73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,47
,\
00,6e,00,43,00,6f,00,6e,00,4d,00,67,00,72,00,2e,00,65,00,78,00,65,00,00,00
"DisplayName"="cLAN Connection Manager"
"Group"="TDI"
"DependOnService"=hex(7):47,00,6e,00,69,00,56,00,49,00,41,00,00,00,00,00
"DependOnGroup"=hex(7):00,00
"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniConMgr\Parameters]
"NicName"="GniVIA"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniConMgr\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00
,02,\
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,00,01,00,00
,\
00,00,02,00,60,00,04,00,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00
,\
05,12,00,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,00,05,20,00,00,00
,\
20,02,00,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,00,05,0b,00,00,00,00
,\
00,18,00,fd,01,02,00,01,02,00,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01
,\

```

00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniConMgr\Enum]
"0"="Root\\LEGACY_GNICONMGR\\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001
```

CurrentControlSet\Services\GNINDIS

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GNINDIS]
"Type"=dword:00000001
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"Tag"=dword:0000000d
"ImagePath"=hex(2):73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,44,00,\
```

```
52,00,49,00,56,00,45,00,52,00,53,00,5c,00,67,00,6e,00,69,00,6e,00,64,00,69,\
00,73,00,2e,00,73,00,79,00,73,00,00,00
"DisplayName"="cLAN NDIS Driver"
"Group"="NDIS"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GNINDIS\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00,02,\
```

```
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,00,01,00,00,\
```

```
00,00,02,00,60,00,04,00,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00,\
```

```
05,12,00,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,00,05,20,00,00,00,\
```

```
20,02,00,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,00,05,0b,00,00,00,00,\
```

```
00,18,00,fd,01,02,00,01,02,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01,\
00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GNINDIS\Enum]
"0"="PCI\\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\\3&172e68dd&0&18"
"Count"=dword:00000008
"NextInstance"=dword:00000008
"1"="PCI\\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\\3&20fea912&0&18"
"2"="PCI\\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\\3&23c0707c&0&18"
"3"="PCI\\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\\3&146ca173&0&18"
"4"="PCI\\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\\3&a985f74&0&18"
"5"="PCI\\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\\3&72aa75c&0&18"
"6"="PCI\\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\\3&3bcef44&0&18"
"7"="PCI\\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\\3&1145a0b8&0&18"
```

CurrentControlSet\Services\GniVIA

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniVIA]
"Type"=dword:00000001
"Start"=dword:00000002
"ErrorControl"=dword:00000001
"Tag"=dword:00000008
"ImagePath"=hex(2):73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,44,00,\
```

```
52,00,49,00,56,00,45,00,52,00,53,00,5c,00,47,00,6e,00,69,00,56,00,49,00,41,\
00,2e,00,73,00,79,00,73,00,00,00
"DisplayName"="cLAN VIA Driver"
"Group"="PNP_TDI"
```

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniVIA\Linkage]
"Bind"=hex(7):5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c,00,7b,00,45,00,36,\
```

```
00,39,00,38,00,32,00,32,00,30,00,31,00,2d,00,45,00,30,00,36,00,33,00,2d,00,\
```

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34,00,36,00,36,00,34,00,2d,00,39,00,36,00,32,00,39,00,2d,00,36,00,35,00,38,\
```

```
00,33,00,30,00,43,00,31,00,46,00,45,00,31,00,38,00,39,00,7d,00,00,00,5c,00,\
```

```
44,00,65,00,76,00,69,00,63,00,65,00,5c,00,7b,00,44,00,36,00,43,00,46,00,38,\
```

```
00,32,00,36,00,36,00,2d,00,34,00,42,00,46,00,44,00,2d,00,34,00,36,00,34,00,\
```

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43,00,2d,00,38,00,41,00,34,00,33,00,2d,00,32,00,38,00,35,00,37,00,46,00,33,\
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00,35,00,32,00,38,00,37,00,30,00,37,00,7d,00,00,00,5c,00,44,00,65,00,76,00,\
```

```
69,00,63,00,65,00,5c,00,7b,00,34,00,46,00,45,00,38,00,35,00,39,00,44,00,30,\
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```
00,2d,00,36,00,38,00,32,00,33,00,2d,00,34,00,39,00,39,00,41,00,2d,00,41,00,\
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41,00,41,00,36,00,2d,00,31,00,33,00,37,00,38,00,34,00,39,00,30,00,41,00,38,\
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```
00,31,00,31,00,38,00,7d,00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65,00,\
```

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2d,00,46,00,35,00,38,00,42,00,45,00,41,00,31,00,43,00,35,00,37,00,31,00,30, ,\	00,38,00,39,00,7d,00,22,00,00,00,22,00,7b,00,44,00,36,00,43,00,46,00,38,00, ,\
00,7d,00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c,00,7b,00,46,00, ,\	32,00,36,00,36,00,2d,00,34,00,42,00,46,00,44,00,2d,00,34,00,36,00,34,00,43, ,\
39,00,45,00,44,00,30,00,32,00,30,00,37,00,2d,00,45,00,31,00,32,00,43,00,2d, ,\	00,2d,00,38,00,41,00,34,00,33,00,2d,00,32,00,38,00,35,00,37,00,46,00,33,00, ,\
00,34,00,41,00,41,00,32,00,2d,00,39,00,34,00,44,00,37,00,2d,00,39,00,39,00, ,\	35,00,32,00,38,00,37,00,30,00,37,00,7d,00,22,00,00,00,22,00,7b,00,34,00,46, ,\
42,00,46,00,38,00,39,00,35,00,34,00,35,00,30,00,43,00,39,00,7d,00,00,00,5c, ,\	00,45,00,38,00,35,00,39,00,44,00,30,00,2d,00,36,00,38,00,32,00,33,00,2d,00, ,\
00,44,00,65,00,76,00,69,00,63,00,65,00,5c,00,7b,00,45,00,32,00,30,00,31,00, ,\	34,00,39,00,39,00,41,00,2d,00,41,00,41,00,41,00,36,00,2d,00,31,00,33,00,37, ,\
34,00,44,00,45,00,31,00,2d,00,35,00,34,00,30,00,31,00,2d,00,34,00,31,00,39, ,\	00,38,00,34,00,39,00,30,00,41,00,38,00,31,00,31,00,38,00,7d,00,22,00,00,00, ,\
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39,00,36,00,34,00,31,00,35,00,42,00,45,00,7d,00,00,00,5c,00,44,00,65,00,76, ,\	00,45,00,44,00,2d,00,34,00,37,00,33,00,43,00,2d,00,41,00,31,00,37,00,42,00, ,\
00,69,00,63,00,65,00,5c,00,7b,00,42,00,46,00,46,00,43,00,42,00,42,00,33,00, ,\	2d,00,46,00,35,00,38,00,42,00,45,00,41,00,31,00,43,00,35,00,37,00,31,00,30, ,\
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00,5c,00,7b,00,32,00,42,00,32,00,44,00,41,00,30,00,32,00,41,00,2d,00,33,00, ,\	35,00,30,00,43,00,39,00,7d,00,22,00,00,00,22,00,7b,00,45,00,32,00,30,00,31, ,\
36,00,30,00,41,00,2d,00,34,00,44,00,42,00,46,00,2d,00,39,00,36,00,35,00,44, ,\	00,34,00,44,00,45,00,31,00,2d,00,35,00,34,00,30,00,31,00,2d,00,34,00,31,00, ,\
00,2d,00,38,00,38,00,32,00,37,00,36,00,38,00,30,00,41,00,41,00,38,00,39,00, ,\	39,00,36,00,2d,00,39,00,38,00,42,00,42,00,2d,00,45,00,37,00,38,00,33,00,32, ,\
43,00,7d,00,00,00,00,00	
"Route"=hex(7):22,00,7b,00,45,00,36,00,39,00,38,00,32,00,32,00,30,00,31,00, ,2d,\	00,39,00,36,00,34,00,31,00,35,00,42,00,45,00,7d,00,22,00,00,00,22,00,7b,00, ,\

42,00,46,00,46,00,43,00,42,00,42,00,33,00,33,00,2d,00,36,00,45,00,32,00,31, ,\	00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c,00,47,00,6e,00,69,00, ,\
00,2d,00,34,00,34,00,45,00,37,00,2d,00,38,00,37,00,44,00,37,00,2d,00,31,00, ,\	56,00,49,00,41,00,5f,00,7b,00,32,00,36,00,32,00,43,00,30,00,42,00,39,00,42, ,\
30,00,44,00,35,00,38,00,43,00,34,00,37,00,42,00,46,00,38,00,35,00,7d,00,22, ,\	00,2d,00,44,00,39,00,45,00,44,00,2d,00,34,00,37,00,33,00,43,00,2d,00,41,00, ,\
00,00,00,22,00,7b,00,32,00,42,00,32,00,44,00,41,00,30,00,32,00,41,00,2d,00, ,\	31,00,37,00,42,00,2d,00,46,00,35,00,38,00,42,00,45,00,41,00,31,00,43,00,35, ,\
33,00,36,00,30,00,41,00,2d,00,34,00,44,00,42,00,46,00,2d,00,39,00,36,00,35, ,\	00,37,00,31,00,30,00,7d,00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65,00, ,\
00,44,00,2d,00,38,00,38,00,32,00,37,00,36,00,38,00,30,00,41,00,41,00,38,00, ,\	5c,00,47,00,6e,00,69,00,56,00,49,00,41,00,5f,00,7b,00,46,00,39,00,45,00,44, ,\
39,00,43,00,7d,00,22,00,00,00,00,00	
"Export"=hex(7):5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c,00,47,00,6e,0 0,69,\	00,30,00,32,00,30,00,37,00,2d,00,45,00,31,00,32,00,43,00,2d,00,34,00,41,00, ,\
00,56,00,49,00,41,00,5f,00,7b,00,45,00,36,00,39,00,38,00,32,00,32,00,30,00, ,\	41,00,32,00,2d,00,39,00,34,00,44,00,37,00,2d,00,39,00,39,00,42,00,46,00,38, ,\
31,00,2d,00,45,00,30,00,36,00,33,00,2d,00,34,00,36,00,36,00,34,00,2d,00,39, ,\	00,39,00,35,00,34,00,35,00,30,00,43,00,39,00,7d,00,00,00,5c,00,44,00,65,00, ,\
00,36,00,32,00,39,00,2d,00,36,00,35,00,38,00,33,00,30,00,43,00,31,00,46,00, ,\	76,00,69,00,63,00,65,00,5c,00,47,00,6e,00,69,00,56,00,49,00,41,00,5f,00,7b, ,\
45,00,31,00,38,00,39,00,7d,00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65, ,\	00,45,00,32,00,30,00,31,00,34,00,44,00,45,00,31,00,2d,00,35,00,34,00,30,00, ,\
00,5c,00,47,00,6e,00,69,00,56,00,49,00,41,00,5f,00,7b,00,44,00,36,00,43,00, ,\	31,00,2d,00,34,00,31,00,39,00,36,00,2d,00,39,00,38,00,42,00,42,00,2d,00,45, ,\
46,00,38,00,32,00,36,00,36,00,2d,00,34,00,42,00,46,00,44,00,2d,00,34,00,36, ,\	00,37,00,38,00,33,00,32,00,39,00,36,00,34,00,31,00,35,00,42,00,45,00,7d,00, ,\
00,34,00,43,00,2d,00,38,00,41,00,34,00,33,00,2d,00,32,00,38,00,35,00,37,00, ,\	00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c,00,47,00,6e,00,69,00,56, ,\
46,00,33,00,35,00,32,00,38,00,37,00,30,00,37,00,7d,00,00,00,5c,00,44,00,65, ,\	00,49,00,41,00,5f,00,7b,00,42,00,46,00,46,00,43,00,42,00,42,00,33,00,33,00, ,\
00,76,00,69,00,63,00,65,00,5c,00,47,00,6e,00,69,00,56,00,49,00,41,00,5f,00, ,\	2d,00,36,00,45,00,32,00,31,00,2d,00,34,00,34,00,45,00,37,00,2d,00,38,00,37, ,\
7b,00,34,00,46,00,45,00,38,00,35,00,39,00,44,00,30,00,2d,00,36,00,38,00,32, ,\	00,44,00,37,00,2d,00,31,00,30,00,44,00,35,00,38,00,43,00,34,00,37,00,42,00, ,\
00,33,00,2d,00,34,00,39,00,39,00,41,00,2d,00,41,00,41,00,41,00,36,00,2d,00, ,\	46,00,38,00,35,00,7d,00,00,00,5c,00,44,00,65,00,76,00,69,00,63,00,65,00,5c, ,\
31,00,33,00,37,00,38,00,34,00,39,00,30,00,41,00,38,00,31,00,31,00,38,00,7d, ,\	00,47,00,6e,00,69,00,56,00,49,00,41,00,5f,00,7b,00,32,00,42,00,32,00,44,00, ,\

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41,00,30,00,32,00,41,00,2d,00,33,00,36,00,30,00,41,00,2d,00,34,00,44,00,42
,\
00,46,00,2d,00,39,00,36,00,35,00,44,00,2d,00,38,00,38,00,32,00,37,00,36,00
,\
 38,00,30,00,41,00,41,00,38,00,39,00,43,00,7d,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniVIA\Parameters]
@=""
"MaxNumberNics"=dword:00000008

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniVIA\Performance]
"Open"="OpenNicPerformanceData"
"Close"="CloseNicPerformanceData"
"Collect"="CollectNicPerformanceData"
"Library"="gni_perf.dll"
"PerfIniFile"="gni_perf.ini"
"Last Counter"=dword:00000ac0
"Last Help"=dword:00000acl
"First Counter"=dword:00000a82
"First Help"=dword:00000a83
"WbemAdapFileSignature"=hex:72,b9,f5,07,e0,89,b7,ad,6b,a0,4e,41,53,fb,b4,b
a
"WbemAdapFileTime"=hex:fa,88,34,87,4f,76,c2,01
"WbemAdapFileSize"=dword:0000c000
"WbemAdapStatus"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniVIA\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00
,02,\
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00
,\
00,00,02,00,60,00,04,00,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00,00
,\
05,12,00,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,00,05,20,00,00,00
,\
20,02,00,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,00,05,0b,00,00,00,00
,\
00,18,00,fd,01,02,00,01,02,00,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01
,\
 00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\GniVIA\Enum]
"0"="Root\LEGACY_GNIVIA\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

```

CurrentControlSet\Services\IfIp

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```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp]
"Type"=dword:00000001
"Start"=dword:00000000
"ErrorControl"=dword:00000001
"Tag"=dword:00000006
"ImagePath"=hex(2):73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,4
4,00,\
52,00,49,00,56,00,45,00,52,00,53,00,5c,00,49,00,66,00,49,00,70,00,2e,00,73
,\
 00,79,00,73,00,00,00
"DisplayName"="IntelliFibre Fabric Bus Enumerator (ifIp)"
"Group"="Boot Bus Extender"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00
,02,\
00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00
,\
00,00,02,00,60,00,04,00,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00,00
,\
05,12,00,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,00,00,05,20,00,00,00
,\
20,02,00,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,00,05,0b,00,00,00,00
,\
00,18,00,fd,01,02,00,01,02,00,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01
,\
 00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\IfIp\Enum]
"0"="Root\SYSTEM\0002"
"Count"=dword:00000001
"NextInstance"=dword:00000001

CurrentControlSet\Services\ifxp

Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp]
"Type"=dword:00000001
"Start"=dword:00000000
"ErrorControl"=dword:00000001
"Tag"=dword:00000021
"ImagePath"=hex(2):73,00,79,00,73,00,74,00,65,00,6d,00,33,00,32,00,5c,00,4
4,00,\
52,00,49,00,56,00,45,00,52,00,53,00,5c,00,69,00,66,00,78,00,70,00,2e,00,73
,\
 00,79,00,73,00,00,00
"DisplayName"="Unisys IntelliFibre Fibre Channel Adapter Driver(ifXp)"

```



```

"Group"="SCSI Miniport"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Parameters]

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Parameters\PnpInterface]
"5"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,01,00,00,\
,00,00,02,00,60,00,04,00,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00,\
,05,12,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,00,05,20,00,00,00,\
,20,02,00,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,00,05,0b,00,00,00,00,\
,00,18,00,fd,01,02,00,01,02,00,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01,\
,00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\ifxp\Enum]
"0"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&25ea3ec6&0&0000"
"Count"=dword:00000009
"NextInstance"=dword:00000009
"1"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&2cf6f8ed&0&0000"
"2"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&145af944&0&0000"
"3"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&101f93c3&0&0000"
"4"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&39122baf&0&0000"
"5"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&32dc1527&0&0000"
"6"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&3798f592&0&0000"
"7"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&102fa53&0&0000"
"8"="PCI\VEN_11AB&DEV_4620&SUBSYS_C0FC1018&REV_12\4&297b89&0&0000"

```

CurrentControlSet\Services\MSSQLSERVER

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```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER]
"Type"=dword:00000010
"Start"=dword:00000003
"ErrorControl"=dword:00000001
"ImagePath"=hex(2):63,00,3a,00,5c,00,73,00,71,00,6c,00,38,00,30,00,5c,00,4d,00,\
,53,00,53,00,51,00,4c,00,5c,00,62,00,69,00,6e,00,6e,00,5c,00,73,00,71,00,6c,\
,00,73,00,65,00,72,00,76,00,72,00,2e,00,65,00,78,00,65,00,00,00
"DisplayName"="MSSQLSERVER"

```

```

"ObjectName"="LocalSystem"

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Linkage]
"Export"=hex(7):4d,00,53,00,53,00,51,00,4c,00,53,00,45,00,52,00,56,00,45,00,52,\
,00,00,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Performance]
"Library"="c:\sql80\MSSQL\BINN\SQLCTR80.DLL"
"Collect"="CollectSQLPerformanceData"
"Open"="OpenSQLPerformanceData"
"Close"="CloseSQLPerformanceData"
"PerfIniFile"="sqlctr.ini"
"Last Counter"=dword:00000bdc
"Last Help"=dword:00000bdd
"First Counter"=dword:00000ac8
"First Help"=dword:00000ac9
"WbemAdapFileSignature"=hex:d6,a0,b9,c1,d1,85,78,63,4f,31,8b,f2,18,51,1a,5d
"WbemAdapFileTime"=hex:36,aa,14,39,c9,7b,c2,01
"WbemAdapFileSize"=dword:0000803b
"WbemAdapStatus"=dword:00000000

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Security]
"Security"=hex:01,00,14,80,90,00,00,00,9c,00,00,00,14,00,00,00,30,00,00,00,1c,00,01,00,00,00,02,80,14,00,ff,01,0f,00,01,01,00,00,00,00,00,01,00,00,\
,00,00,02,00,60,00,04,00,00,00,00,00,14,00,fd,01,02,00,01,01,00,00,00,00,00,\
,05,12,00,00,00,00,18,00,ff,01,0f,00,01,02,00,00,00,00,00,05,20,00,00,00,\
,20,02,00,00,00,00,14,00,8d,01,02,00,01,01,00,00,00,00,00,05,0b,00,00,00,00,\
,00,18,00,fd,01,02,00,01,02,00,00,00,00,00,05,20,00,00,00,23,02,00,00,01,01,\
,00,00,00,00,00,05,12,00,00,00,01,01,00,00,00,00,00,05,12,00,00,00

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\MSSQLSERVER\Enum]
"0"="Root\LEGACY_MSSQLSERVER\0000"
"Count"=dword:00000001
"NextInstance"=dword:00000001

```

CurrentControlSet\Services\PartMgr

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```

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PartMgr]
"DisplayName"="Partition Manager"

```

"ErrorControl"=dword:00000001
"Group"="System Bus Extender"
"Start"=dword:00000000
"Tag"=dword:00000005
"Type"=dword:00000001

[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PartMgr\Enum]
"0"="Root\LEGACY_PARTMGR\0000"
"Count"=dword:00000088
"NextInstance"=dword:00000088
"1"="SCSI\Disk&Ven_UNISYS&Prod_036434ST336752LC&Rev_4D00\4&b87a6ac&0&000"
"
"2"="SCSI\Disk&Ven_DGC RAID_10 0841\1&1a590e2c&0&C3530240600
01065000000000000001000"
"3"="SCSI\Disk&Ven_DGC RAID_10 0841\1&1a590e2c&0&C3530240600
010650000000000000000000"
"4"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
01065000000000000000A000"
"5"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
010650000000000000009000"
"6"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
010650000000000000008000"
"7"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
010650000000000000007000"
"8"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
010650000000000000006000"
"9"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
010650000000000000005000"
"10"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB140340680
010650000000000000004000"
"11"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004060
01065000000000000000D000"
"12"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004060
01065000000000000000C000"
"13"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004060
01065000000000000000B000"
"14"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004060
010650000000000000003000"
"15"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004060
010650000000000000002000"
"16"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004060
010650000000000000001000"
"17"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004060
010650000000000000000000"
"18"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5243FB4060
01065000000000000000D000"
"19"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB14034060
01065000000000000000D000"
"20"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5243FB4060
01065000000000000000C000"
"21"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB14034060
01065000000000000000C000"
"22"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5243FB4060
01065000000000000000B000"
"23"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB14034060
01065000000000000000B000"
"24"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&8042034068
01065000000000000000A000"

"25"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&8042034068
0106500000000000009000"
"26"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&8042034068
0106500000000000008000"
"27"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&8042034068
0106500000000000007000"
"28"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&F3F0014068
010650000000000000A000"
"29"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&8042034068
0106500000000000006000"
"30"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&F3F0014068
0106500000000000009000"
"31"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&8042034068
0106500000000000005000"
"32"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&F3F0014068
0106500000000000008000"
"33"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&8042034068
0106500000000000004000"
"34"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&F3F0014068
0106500000000000007000"
"35"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004068
010650000000000000A000"
"36"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5243FB4060
0106500000000000003000"
"37"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&F3F0014068
0106500000000000006000"
"38"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB14034060
0106500000000000003000"
"39"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004068
0106500000000000009000"
"40"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5F43034068
010650000000000000A000"
"41"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5243FB4060
0106500000000000002000"
"42"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&F3F0014068
0106500000000000005000"
"43"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB14034060
0106500000000000002000"
"44"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004068
0106500000000000008000"
"45"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5F43034068
0106500000000000009000"
"46"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5243FB4060
0106500000000000001000"
"47"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&F3F0014068
0106500000000000004000"
"48"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB14034060
0106500000000000001000"
"49"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&B6A3004068
0106500000000000007000"
"50"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5F43034068
0106500000000000008000"
"51"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5860014068
010650000000000000A000"
"52"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&5243FB4060
0106500000000000000000"
"53"="SCSI\Disk&Ven_DGC RAID_0 0841\1&1a590e2c&0&DB14034060
0106500000000000000000"


```

"112"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&BC0B03406 [ Following are sub-categories of this main category ]
801065000000000000000006000"
"113"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&C35302406 [System Summary]
801065000000000000000006000"
"114"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&512103406 Item Value
80106500000000000000007000" OS Name Microsoft Windows 2000 Server
"115"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&BC0B03406 Version 5.0.2195 Service Pack 3 Build 2195
80106500000000000000005000" OS Manufacturer Microsoft Corporation
"116"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&C35302406 System Name CLIENT1
801065000000000000000005000" System Manufacturer UNISYS Corp.
"117"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&512103406 System Model ES3020L
801065000000000000000006000" System Type X86-based PC
"118"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&BC0B03406 Processor x86 Family 15 Model 2 Stepping 4 GenuineIntel ~2392 Mhz
80106500000000000000004000" Processor x86 Family 15 Model 2 Stepping 4 GenuineIntel ~2392 Mhz
"119"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&C35302406 BIOS Version 06/04/02
80106500000000000000004000" Windows Directory C:\\WINNT
"120"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&512103406 System Directory C:\\WINNT\\System32
80106500000000000000005000" Boot Device \\Device\\Harddisk0\\Partition1
"121"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&586001406 Locale United States
001065000000000000000002000" User Name CLIENT1\\Administrator
"122"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&5F4303406 Time Zone Pacific Standard Time
00106500000000000000003000" Total Physical Memory 1,048,048 KB
"123"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&BC0B03406 Available Physical Memory 887,988 KB
00106500000000000000003000" Total Virtual Memory 4,093,092 KB
"124"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&C35302406 Available Virtual Memory 3,867,196 KB
80106500000000000000003000" Page File Space 3,045,044 KB
"125"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&512103406 Page File C:\\pagefile.sys
80106500000000000000004000"
"126"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&586001406 [Hardware Resources]
00106500000000000000002000"
"127"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&5F4303406 [ Following are sub-categories of this main category ]
00106500000000000000002000"
"128"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&BC0B03406 [Conflicts/Sharing]
00106500000000000000002000"
"129"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&C35302406 Resource Device
80106500000000000000002000" IRQ 7 PCI Device
"130"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&586001406 IRQ 7 Standard OpenHCD USB Host Controller
00106500000000000000001000"
"131"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&5F4303406 [DMA]
00106500000000000000001000"
"132"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&BC0B03406 Channel Device Status
00106500000000000000001000" 4 Direct memory access controller OK
"133"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&586001406 2 Standard floppy disk controller OK
00106500000000000000000000"
"134"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&5F4303406 [Forced Hardware]
00106500000000000000000000"
"135"="SCSI\\Disk&Ven_DGC RAID_0 0841\\1&1a590e2c&0&BC0B03406 Device PNP Device ID
00106500000000000000000000" No Forced Hardware

[I/O]

Address Range Device Status
0x0000-0x03AF PCI bus OK
0x0000-0x03AF Direct memory access controller OK
0x03B0-0x03DF PCI bus OK
0x03B0-0x03DF ATI Technologies Inc. RAGE XL PCI OK
0x03E0-0x0FFF PCI bus OK
0xE000-0xEFFF PCI bus OK
0xECF8-0xECFF PCI Device OK

```

Windows 2000 Server Client Configuration Information
(common to 8 clients except for System Name, IP Address & MAC Address)

System Information report written at: 11/18/2002 12:18:19 AM
[System Information]

```

0xECE8-0xECEF PCI Device OK
0xEC80-0xECBF PCI Device OK
0xECF4-0xECF7 PCI Device OK
0xE800-0xE8FF ATI Technologies Inc. RAGE XL PCI OK
0x03C0-0x03DF ATI Technologies Inc. RAGE XL PCI OK
0x0080-0x009F Direct memory access controller OK
0x00C0-0x00DF Direct memory access controller OK
0x00F0-0x00FF Numeric data processor OK
0x0020-0x003F Programmable interrupt controller OK
0x00A0-0x00BF Programmable interrupt controller OK
0x04D0-0x04D1 Programmable interrupt controller OK
0x0061-0x0061 System speaker OK
0x0040-0x005F System timer OK
0x03F0-0x03F5 Standard floppy disk controller OK
0x03F7-0x03F7 Standard floppy disk controller OK
0x0060-0x0060 Standard 101/102-Key or Microsoft Natural PS/2 Keyboard OK
0x0064-0x0064 Standard 101/102-Key or Microsoft Natural PS/2 Keyboard OK
0x03F8-0x03FF Communications Port (COM1) OK
0x02F8-0x02FF Communications Port (COM2) OK
0x0070-0x007F System CMOS/real time clock OK
0x0814-0x085B System board OK
0x0820-0x083F System board OK
0x08A0-0x08AF System board OK
0x0C00-0x0CD7 System board OK
0x0F50-0x0F58 System board OK
0x08B0-0x08BF Standard Dual Channel PCI IDE Controller OK
0x01F0-0x01F7 Primary IDE Channel OK
0x03F6-0x03F6 Primary IDE Channel OK
0x0170-0x0177 Secondary IDE Channel OK
0x0376-0x0376 Secondary IDE Channel OK
0x0A79-0x0A79 ISAPNP Read Data Port OK
0x0279-0x0279 ISAPNP Read Data Port OK
0x02F4-0x02F7 ISAPNP Read Data Port OK
0xC000-0xCFFF PCI bus OK
0xC000-0xCFFF PCI standard PCI-to-PCI bridge OK
0xCC00-0xCFFF Adaptec AIC-7899 Ultra160/m PCI SCSI Card OK
0xC800-0xC8FF Adaptec AIC-7899 Ultra160/m PCI SCSI Card OK
0xD000-0xDFFF PCI bus OK

```

[IRQs]

```

IRQ Number Device
9 Microsoft ACPI-Compliant System
11 PCI Device
10 PCI Device
7 PCI Device
7 Standard OpenHCD USB Host Controller
13 Numeric data processor
6 Standard floppy disk controller
1 Standard 101/102-Key or Microsoft Natural PS/2 Keyboard
12 PS/2 Compatible Mouse
4 Communications Port (COM1)
3 Communications Port (COM2)
8 System CMOS/real time clock
14 Primary IDE Channel
30 Adaptec AIC-7899 Ultra160/m PCI SCSI Card
31 Adaptec AIC-7899 Ultra160/m PCI SCSI Card

```

```

28 Broadcom NetXtreme Gigabit Ethernet #2
29 Broadcom NetXtreme Gigabit Ethernet
16 cLAN Host Adapter

```

[Memory]

```

Range Device Status
0xA0000-0xBFFFF PCI bus OK
0xA0000-0xBFFFF ATI Technologies Inc. RAGE XL PCI OK
0xD0000-0xE7FFF PCI bus OK
0xFD000000-0xFEBFFFFFF PCI bus OK
0xFD000000-0xFEBFFFFFF ATI Technologies Inc. RAGE XL PCI OK
0xFEB80000-0xFEB80FFF PCI Device OK
0xFE102000-0xFE102FFF PCI Device OK
0xFEB00000-0xFEB7FFFF PCI Device OK
0xFE101000-0xFE101FFF ATI Technologies Inc. RAGE XL PCI OK
0x0000-0x9FFFF System board OK
0x100000-0x3FFFFFF System board OK
0xF0000-0xFFFF System board OK
0xFEC00000-0xFEC0FFFF System board OK
0xFEE00000-0xFEE0FFFF System board OK
0xFFE00000-0xFFFFFFFF System board OK
0xFE100000-0xFE100FFF Standard OpenHCD USB Host Controller OK
0xF9000000-0xFADFFFFF PCI bus OK
0xFAC00000-0xFADFFFFF PCI standard PCI-to-PCI bridge OK
0xFACFF000-0xFACFFFFFF Adaptec AIC-7899 Ultra160/m PCI SCSI Card OK
0xFACFE000-0xFACFEFFF Adaptec AIC-7899 Ultra160/m PCI SCSI Card OK
0xFAE00000-0xFAFFFFFF PCI bus OK
0xFAF10000-0xFAF1FFFF Broadcom NetXtreme Gigabit Ethernet #2 OK
0xFAF00000-0xFAF0FFFF Broadcom NetXtreme Gigabit Ethernet OK
0xFB000000-0xFC3FFFFFF PCI bus OK
0xFB000000-0xFC3FFFFFF cLAN Host Adapter OK
0xFC300000-0xFC31FFFF cLAN Host Adapter OK
0xFC000000-0xFC1FFFFF cLAN Host Adapter OK
0xFC320000-0xFC32FFFF cLAN Host Adapter OK

```

[Components]

[Following are sub-categories of this main category]

[Multimedia]

[Following are sub-categories of this main category]

[Audio Codecs]

Codec	Manufacturer	Description	Status	File	Version	Size
c:\winnt\system32\msg723.acm	Microsoft Corporation		OK			
C:\WINNT\System32\MSG723.ACM	4.4.3385				106.77 KB	(109,328 bytes)
c:\winnt\system32\iac25_32.ax	Intel Corporation					
C:\WINNT\System32\IAC25_32.AX	2.05.53	Indeo® audio software			195.00 KB	(199,680 bytes)
c:\winnt\system32\tssoft32.acm	DSP GROUP, INC.		OK			
C:\WINNT\System32\TSSOFT32.ACM	1.01				9.27 KB	(9,488 bytes)
12/7/1999 4:00:00 AM						

```

c:\winnt\system32\lhacm.acm Microsoft Corporation OK
C:\WINNT\System32\LHACM.ACM 4.4.3385 33.27 KB (34,064
bytes) 11/14/2002 8:47:10 PM
c:\winnt\system32\msgsm32.acm Microsoft Corporation OK
C:\WINNT\System32\MSGSM32.ACM 5.00.2134.1 22.27 KB (22,800
bytes) 12/7/1999 4:00:00 AM
c:\winnt\system32\msg711.acm Microsoft Corporation OK
C:\WINNT\System32\MSG711.ACM 5.00.2134.1 10.27 KB (10,512
bytes) 12/7/1999 4:00:00 AM
c:\winnt\system32\imaadp32.acm Microsoft Corporation OK
C:\WINNT\System32\IMAADP32.ACM 5.00.2134.1 16.27 KB
(16,656 bytes) 12/7/1999 4:00:00 AM
c:\winnt\system32\msadp32.acm Microsoft Corporation OK
C:\WINNT\System32\MSADP32.ACM 5.00.2134.1 14.77 KB (15,120
bytes) 12/7/1999 4:00:00 AM

```

[Video Codecs]

Codec	Manufacturer	Description	Status	File	Version	Size
		Creation Date				
c:\winnt\system32\ir50_32.dll	Intel Corporation	Indeo® video 5.10	OK	C:\WINNT\System32\IR50_32.DLL	R.5.10.15.2.55	737.50 KB
		12/7/1999 4:00:00 AM				
(755,200 bytes)						
c:\winnt\system32\msh263.drv	Microsoft Corporation		OK			
		C:\WINNT\System32\MSH263.DRV	4.4.3385	252.27 KB (258,320		
bytes)		11/14/2002 8:46:41 PM				
c:\winnt\system32\msh261.drv	Microsoft Corporation		OK			
		C:\WINNT\System32\MSH261.DRV	4.4.3385	163.77 KB (167,696		
bytes)		11/14/2002 8:47:09 PM				
c:\winnt\system32\msvidc32.dll	Microsoft Corporation		OK			
		C:\WINNT\System32\MSVIDC32.DLL	5.00.2134.1	27.27 KB		
(27,920 bytes)		12/7/1999 4:00:00 AM				
c:\winnt\system32\ir32_32.dll	Intel(R) Corporation		OK			
		C:\WINNT\System32\IR32_32.DLL	Not Available	194.50 KB (199,168		
bytes)		12/7/1999 4:00:00 AM				
c:\winnt\system32\msrle32.dll	Microsoft Corporation		OK			
		C:\WINNT\System32\MSRLE32.DLL	5.00.2134.1	10.77 KB (11,024		
bytes)		12/7/1999 4:00:00 AM				
c:\winnt\system32\iccvid.dll	Radius Inc.		OK			
		C:\WINNT\System32\ICCVID.DLL	1.10.0.6	108.00 KB (110,592		
bytes)		12/7/1999 4:00:00 AM				

[CD-ROM]

```

Item Value
Drive D:
Description CD-ROM Drive
Media Loaded False
Media Type CD-ROM
Name TEAC CD-224E
Manufacturer (Standard CD-ROM drives)
Status OK
Transfer Rate Not Available
SCSI Target ID 0
PNP Device ID IDE\CDROMTEAC_CD-
224E_____K.9A_____\5&3125DC91&0&0.0.0

```

[Sound Device]

```

Item Value
No sound devices

```

[Display]

```

Item Value
Name ATI Technologies Inc. RAGE XL PCI
PNP Device ID
PCI\VEN_1002&DEV_4752&SUBSYS_01211028&REV_27\3&13C0B0C5&0&70
Adapter Type ATI RAGE XL PCI, ATI Technologies Inc. compatible
Adapter Description ATI Technologies Inc. RAGE XL PCI
Adapter RAM 8.00 MB (8,388,608 bytes)
Installed Drivers atidrab.dll
Driver Version 5.00.2179.1
INF File display.inf (atirage3 section)
Color Planes 1
Color Table Entries 65536
Resolution 1024 x 768 x 60 hertz
Bits/Pixel 16

```

[Infrared]

```

Item Value
No infrared devices

```

[Input]

[Following are sub-categories of this main category]

[Keyboard]

```

Item Value
Description Standard 101/102-Key or Microsoft Natural PS/2 Keyboard
Name Enhanced (101- or 102-key)
Layout 00000409
PNP Device ID ACPI\PNP0303\4&25F73A82&0
NumberOfFunctionKeys 12

```

[Pointing Device]

```

Item Value
Hardware Type PS/2 Compatible Mouse
Number of Buttons 5
Status OK
PNP Device ID ACPI\PNP0F13\4&25F73A82&0
Power Management Supported False
Double Click Threshold 6
Handedness Right Handed Operation

```

[Modem]

```

Item Value
No modems

```

[Network]

[Following are sub-categories of this main category]

[Adapter]

Item Value
Name [00000000] RAS Async Adapter
Adapter Type Not Available
Product Name RAS Async Adapter
Installed True
PNP Device ID Not Available
Last Reset 11/17/2002 11:19:12 AM
Index 0
Service Name AsyncMac
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled False
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Service Name Not Available

Name [00000001] WAN Miniport (L2TP)
Adapter Type Not Available
Product Name WAN Miniport (L2TP)
Installed True
PNP Device ID ROOT\MS_L2TPMINIPORT\0000
Last Reset 11/17/2002 11:19:12 AM
Index 1
Service Name Rasl2tp
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled False
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Service Name Rasl2tp
Driver c:\winnt\system32\drivers\rasl2tp.sys (52112, 5.00.2195.4052)

Name [00000002] WAN Miniport (PPTP)
Adapter Type Wide Area Network (WAN)
Product Name WAN Miniport (PPTP)
Installed True
PNP Device ID ROOT\MS_PPTPMINIPORT\0000
Last Reset 11/17/2002 11:19:12 AM
Index 2
Service Name PptpMiniport
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled False
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 50:50:54:50:30:30

Service Name PptpMiniport
Driver c:\winnt\system32\drivers\raspptp.sys (47888, 5.00.2195.4080)

Name [00000003] Direct Parallel
Adapter Type Not Available
Product Name Direct Parallel
Installed True
PNP Device ID ROOT\MS_PTMINIPORT\0000
Last Reset 11/17/2002 11:19:12 AM
Index 3
Service Name Raspti
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled False
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Service Name Raspti
Driver c:\winnt\system32\drivers\raspti.sys (16880, 5.00.2146.1)

Name [00000004] WAN Miniport (IP)
Adapter Type Not Available
Product Name WAN Miniport (IP)
Installed True
PNP Device ID ROOT\MS_NDISWANIP\0000
Last Reset 11/17/2002 11:19:12 AM
Index 4
Service Name NdisWan
IP Address Not Available
IP Subnet Not Available
Default IP Gateway Not Available
DHCP Enabled False
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address Not Available
Service Name NdisWan
Driver c:\winnt\system32\drivers\ndiswan.sys (93104, 5.00.2195.5241)

Name [00000005] Broadcom NetXtreme Gigabit Ethernet
Adapter Type Ethernet 802.3
Product Name Broadcom NetXtreme Gigabit Ethernet
Installed True
PNP Device ID PCI\VEN_14E4&DEV_1645&SUBSYS_01211028&REV_15\3&172E68DD&0&40
Last Reset 11/17/2002 11:19:12 AM
Index 5
Service Name b57w2k
IP Address 192.1.1.1
IP Subnet 255.255.255.0
Default IP Gateway Not Available
DHCP Enabled False
DHCP Server Not Available
DHCP Lease Expires Not Available
DHCP Lease Obtained Not Available
MAC Address 00:06:5B:8C:9B:81
Service Name b57w2k

IRQ Number 29
 Driver c:\winnt\system32\drivers\b57w2k.sys (77438, 2.67.0.0)
 Name [00000006] Broadcom NetXtreme Gigabit Ethernet
 Adapter Type Ethernet 802.3
 Product Name Broadcom NetXtreme Gigabit Ethernet
 Installed True
 PNP Device ID PCI\VEN_14E4&DEV_1645&SUBSYS_01211028&REV_15\3&172E68DD&0&30
 Last Reset 11/17/2002 11:19:12 AM
 Index 6
 Service Name b57w2k
 IP Address 192.168.91.1
 IP Subnet 255.255.255.0
 Default IP Gateway Not Available
 DHCP Enabled False
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 00:06:5B:8C:9B:80
 Service Name b57w2k
 IRQ Number 28
 Driver c:\winnt\system32\drivers\b57w2k.sys (77438, 2.67.0.0)

Name [00000007] cLAN Host Adapter
 Adapter Type Ethernet 802.3
 Product Name cLAN Host Adapter
 Installed True
 PNP Device ID PCI\VEN_135B&DEV_0001&SUBSYS_00000000&REV_00\3&1070020&0&30
 Last Reset 11/17/2002 11:19:12 AM
 Index 7
 Service Name GNINDIS
 IP Address Not Available
 IP Subnet Not Available
 Default IP Gateway Not Available
 DHCP Enabled True
 DHCP Server Not Available
 DHCP Lease Expires Not Available
 DHCP Lease Obtained Not Available
 MAC Address 00:90:FA:00:13:6E
 Service Name GNINDIS
 IRQ Number 16
 Driver c:\winnt\system32\drivers\gnindis.sys (22726, 4.2.0.75)

[Protocol]

Item Value
 Name MSAFD Tcpi [TCP/IP]
 ConnectionlessService False
 GuaranteesDelivery True
 GuaranteesSequencing True
 MaximumAddressSize 16 bytes
 MaximumMessageSize 0 bytes
 MessageOriented False
 MinimumAddressSize 16 bytes
 PseudoStreamOriented False
 SupportsBroadcasting False
 SupportsConnectData False

SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData True
 SupportsGracefulClosing True
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD Tcpi [UDP/IP]
 ConnectionlessService True
 GuaranteesDelivery False
 GuaranteesSequencing False
 MaximumAddressSize 16 bytes
 MaximumMessageSize 65467 bytes
 MessageOriented True
 MinimumAddressSize 16 bytes
 PseudoStreamOriented False
 SupportsBroadcasting True
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting True

Name RSVP UDP Service Provider
 ConnectionlessService True
 GuaranteesDelivery False
 GuaranteesSequencing False
 MaximumAddressSize 16 bytes
 MaximumMessageSize 65467 bytes
 MessageOriented True
 MinimumAddressSize 16 bytes
 PseudoStreamOriented False
 SupportsBroadcasting True
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption True
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting True

Name RSVP TCP Service Provider
 ConnectionlessService False
 GuaranteesDelivery True
 GuaranteesSequencing True
 MaximumAddressSize 16 bytes
 MaximumMessageSize 0 bytes
 MessageOriented False
 MinimumAddressSize 16 bytes
 PseudoStreamOriented False
 SupportsBroadcasting False
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption True
 SupportsExpeditedData True
 SupportsGracefulClosing True
 SupportsGuaranteedBandwidth False

SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{6068FEFB-8F6F-49EA-8ECB-28BBB90120D0}] SEQPACKET 4
ConnectionlessService False
GuaranteesDelivery True
GuaranteesSequencing True
MaximumAddressSize 20 bytes
MaximumMessageSize 64000 bytes
MessageOriented True
MinimumAddressSize 20 bytes
PseudoStreamOriented False
SupportsBroadcasting False
SupportsConnectData False
SupportsDisconnectData False
SupportsEncryption False
SupportsExpeditedData False
SupportsGracefulClosing False
SupportsGuaranteedBandwidth False
SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{6068FEFB-8F6F-49EA-8ECB-28BBB90120D0}] DATAGRAM 4
ConnectionlessService True
GuaranteesDelivery False
GuaranteesSequencing False
MaximumAddressSize 20 bytes
MaximumMessageSize 64000 bytes
MessageOriented True
MinimumAddressSize 20 bytes
PseudoStreamOriented False
SupportsBroadcasting True
SupportsConnectData False
SupportsDisconnectData False
SupportsEncryption False
SupportsExpeditedData False
SupportsGracefulClosing False
SupportsGuaranteedBandwidth False
SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{3D55F2FD-CE2E-4072-8B10-42A97A6EA309}] SEQPACKET 3
ConnectionlessService False
GuaranteesDelivery True
GuaranteesSequencing True
MaximumAddressSize 20 bytes
MaximumMessageSize 64000 bytes
MessageOriented True
MinimumAddressSize 20 bytes
PseudoStreamOriented False
SupportsBroadcasting False
SupportsConnectData False
SupportsDisconnectData False
SupportsEncryption False
SupportsExpeditedData False
SupportsGracefulClosing False
SupportsGuaranteedBandwidth False
SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{3D55F2FD-CE2E-4072-8B10-42A97A6EA309}] DATAGRAM 3
ConnectionlessService True
GuaranteesDelivery False
GuaranteesSequencing False
MaximumAddressSize 20 bytes
MaximumMessageSize 64000 bytes
MessageOriented True
MinimumAddressSize 20 bytes
PseudoStreamOriented False
SupportsBroadcasting True
SupportsConnectData False
SupportsDisconnectData False
SupportsEncryption False
SupportsExpeditedData False
SupportsGracefulClosing False
SupportsGuaranteedBandwidth False
SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{9D20D885-9BA8-490D-AABB-1A03BEA0A5B9}] SEQPACKET 0
ConnectionlessService False
GuaranteesDelivery True
GuaranteesSequencing True
MaximumAddressSize 20 bytes
MaximumMessageSize 64000 bytes
MessageOriented True
MinimumAddressSize 20 bytes
PseudoStreamOriented False
SupportsBroadcasting False
SupportsConnectData False
SupportsDisconnectData False
SupportsEncryption False
SupportsExpeditedData False
SupportsGracefulClosing False
SupportsGuaranteedBandwidth False
SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{9D20D885-9BA8-490D-AABB-1A03BEA0A5B9}] DATAGRAM 0
ConnectionlessService True
GuaranteesDelivery False
GuaranteesSequencing False
MaximumAddressSize 20 bytes
MaximumMessageSize 64000 bytes
MessageOriented True
MinimumAddressSize 20 bytes
PseudoStreamOriented False
SupportsBroadcasting True
SupportsConnectData False
SupportsDisconnectData False
SupportsEncryption False
SupportsExpeditedData False
SupportsGracefulClosing False
SupportsGuaranteedBandwidth False
SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{429130B1-6084-46AD-A1DE-D9C2C11E8C8B}] SEQPACKET 1

ConnectionlessService False
 GuaranteesDelivery True
 GuaranteesSequencing True
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting False
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{429130B1-6084-46AD-A1DE-D9C2C11E8C8B}] DATAGRAM 1

ConnectionlessService True
 GuaranteesDelivery False
 GuaranteesSequencing False
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting True
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{338997ED-371A-4B63-9093-DFA4D717C2D5}] SEQPACKET 2

ConnectionlessService False
 GuaranteesDelivery True
 GuaranteesSequencing True
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting False
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

Name MSAFD NetBIOS [\Device\NetBT_Tcpip_{338997ED-371A-4B63-9093-DFA4D717C2D5}] DATAGRAM 2

ConnectionlessService True
 GuaranteesDelivery False

GuaranteesSequencing False
 MaximumAddressSize 20 bytes
 MaximumMessageSize 64000 bytes
 MessageOriented True
 MinimumAddressSize 20 bytes
 PseudoStreamOriented False
 SupportsBroadcasting True
 SupportsConnectData False
 SupportsDisconnectData False
 SupportsEncryption False
 SupportsExpeditedData False
 SupportsGracefulClosing False
 SupportsGuaranteedBandwidth False
 SupportsMulticasting False

[WinSock]

Item Value
 File c:\winnt\system32\winsock.dll
 Version 3.10
 Size 2.80 KB (2,864 bytes)

File c:\winnt\system32\wsock32.dll
 Version 5.00.2195.4874
 Size 21.27 KB (21,776 bytes)

[Ports]

[Following are sub-categories of this main category]

[Serial]

Item Value
 Name COM1
 Status OK
 PNP Device ID ACPI\PNP0501\1
 Maximum Input Buffer Size 0
 Maximum Output Buffer Size False
 Settable Baud Rate True
 Settable Data Bits True
 Settable Flow Control True
 Settable Parity True
 Settable Parity Check True
 Settable Stop Bits True
 Settable RLSD True
 Supports RLSD True
 Supports 16 Bit Mode False
 Supports Special Characters False
 Baud Rate 9600
 Bits/Byte 8
 Stop Bits 1
 Parity None
 Busy 0
 Abort Read/Write on Error 0
 Binary Mode Enabled -1
 Continue Xmit on XOff 0
 CTS Outflow Control 0

```

Discard NULL Bytes      0
DSR Outflow Control    0
DSR Sensitivity         0
DTR Flow Control Type  Enable
EOF Character           0
Error Replace Character  0
Error Replacement Enabled 0
Event Character         0
Parity Check Enabled   0
RTS Flow Control Type  Enable
XOff Character 19
XOffXmit Threshold     512
XOn Character 17
XOnXmit Threshold      2048
XOnXoff InFlow Control 0
XOnXoff OutFlow Control 0
IRQ Number              4
I/O Port                0x03F8-0x03FF
Driver c:\winnt\system32\drivers\serial.sys (62512, 5.00.2195.5080)

```

```

Name      COM2
Status    OK
PNP Device ID  ACPI\PNP0501\2
Maximum Input Buffer Size  0
Maximum Output Buffer Size  False
Settable Baud Rate      True
Settable Data Bits      True
Settable Flow Control   True
Settable Parity         True
Settable Parity Check   True
Settable Stop Bits      True
Settable RLSD           True
Supports RLSD           True
Supports 16 Bit Mode    False
Supports Special Characters  False
Baud Rate               9600
Bits/Byte               8
Stop Bits               1
Parity None
Busy 0
Abort Read/Write on Error 0
Binary Mode Enabled    -1
Continue Xmit on XOff  0
CTS Outflow Control    0
Discard NULL Bytes     0
DSR Outflow Control    0
DSR Sensitivity         0
DTR Flow Control Type  Enable
EOF Character           0
Error Replace Character  0
Error Replacement Enabled 0
Event Character         0
Parity Check Enabled   0
RTS Flow Control Type  Enable
XOff Character 19
XOffXmit Threshold     512
XOn Character 17
XOnXmit Threshold      2048
XOnXoff InFlow Control 0

```

```

XOnXoff OutFlow Control 0
IRQ Number              3
I/O Port                0x02F8-0x02FF
Driver c:\winnt\system32\drivers\serial.sys (62512, 5.00.2195.5080)

```

[Parallel]

```

Item Value
No parallel port information

```

[Storage]

[Following are sub-categories of this main category]

[Drives]

```

Item Value
Drive A:
Description 3 1/2 Inch Floppy Drive

```

```

Drive C:
Description Local Fixed Disk
Compressed False
File System NTFS
Size 16.95 GB (18,202,509,312 bytes)
Free Space 13.68 GB (14,684,045,312 bytes)
Volume Name
Volume Serial Number C0E2039E
Partition Disk #0, Partition #0
Partition Size 16.95 GB (18,202,512,384 bytes)
Starting Offset 32256 bytes
Drive Description Disk drive
Drive Manufacturer (Standard disk drives)
Drive Model FUJITSU MAN3184MC SCSI Disk Device
Drive BytesPerSector 512
Drive MediaLoaded True
Drive MediaType Fixed hard disk media
Drive Partitions 1
Drive SCSIbus 0
Drive SCSILogicalUnit 0
Drive SCSIPort 2
Drive SCSTargetId 0
Drive SectorsPerTrack 63
Drive Size 18202544640 bytes
Drive TotalCylinders 2213
Drive TotalSectors 35551845
Drive TotalTracks 564315
Drive TracksPerCylinder 255

```

[SCSI]

```

Item Value
Name Adaptec AIC-7899 Ultra160/m PCI SCSI Card
Caption Adaptec AIC-7899 Ultra160/m PCI SCSI Card
Driver adpul60m
Status OK

```

PNP Device ID
 PCI\VEN_9005&DEV_00CF&SUBSYS_01211028&REV_01\4&22300438&0&3040
 Device ID
 PCI\VEN_9005&DEV_00CF&SUBSYS_01211028&REV_01\4&22300438&0&3040
 Device Map Not Available
 Index Not Available
 Max Number Controlled Not Available
 IRQ Number 30
 I/O Port 0xCC00-0xCCFF
 Driver c:\winnt\system32\drivers\adpu160m.sys (64432, v3.10a)

Name Adaptec AIC-7899 Ultra160/m PCI SCSI Card
 Caption Adaptec AIC-7899 Ultra160/m PCI SCSI Card
 Driver adpu160m
 Status OK

PNP Device ID
 PCI\VEN_9005&DEV_00CF&SUBSYS_01211028&REV_01\4&22300438&0&3140
 Device ID
 PCI\VEN_9005&DEV_00CF&SUBSYS_01211028&REV_01\4&22300438&0&3140
 Device Map Not Available
 Index Not Available
 Max Number Controlled Not Available
 IRQ Number 31
 I/O Port 0xC800-0xC8FF
 Driver c:\winnt\system32\drivers\adpu160m.sys (64432, v3.10a)

[Printing]

Name Port Name Server Name
 No printing information

[Problem Devices]

Device PNP Device ID Error Code
 PCI Device
 PCI\VEN_1028&DEV_000C&SUBSYS_000C1028&REV_00\3&13C0B0C5&0&20
 28
 PCI Device
 PCI\VEN_1028&DEV_0008&SUBSYS_00081028&REV_00\3&13C0B0C5&0&21
 28
 PCI Device
 PCI\VEN_1028&DEV_000D&SUBSYS_000D1028&REV_00\3&13C0B0C5&0&22
 28

[USB]

Device PNP Device ID
 Standard OpenHCD USB Host Controller
 PCI\VEN_1166&DEV_0220&SUBSYS_02201166&REV_05\3&13C0B0C5&0&7A
 USB Root Hub USB\ROOT_HUB\4&1A0F8909&0

[Software Environment]

[Following are sub-categories of this main category]

[Drivers]

Name	Description	File	Type	Started	Start	Mode	State	Status
abiosdsk	Error Control	Accept Pause	Accept Stop	Not Available	Kernel Driver	False	False	
abp480n5	Abiosdsk	Not Available	Kernel Driver	False	False	False	False	
acpi	Microsoft ACPI Driver	c:\winnt\system32\drivers\acpi.sys	Kernel Driver	True	Boot	Running	OK	Normal
acpiec	ACPIEC	c:\winnt\system32\drivers\acpiec.sys	Kernel Driver	False	True	True	False	False
adpu160m	adpu160m	c:\winnt\system32\drivers\adpu160m.sys	Kernel Driver	True	Boot	Running	OK	Normal
afd	AFD Networking Support Environment	c:\winnt\system32\drivers\afd.sys	Kernel Driver	True	Auto	Auto	True	Auto
aha154x	Aha154x	Not Available	Kernel Driver	False	Disabled	Disabled	False	False
aic116x	aic116x	Not Available	Kernel Driver	False	Disabled	Disabled	False	False
aic78u2	aic78u2	Not Available	Kernel Driver	False	Disabled	Disabled	False	False
aic78xx	aic78xx	Not Available	Kernel Driver	False	Disabled	Disabled	False	False
ami0nt	ami0nt	Not Available	Kernel Driver	False	Disabled	Disabled	False	False
amsint	amsint	Not Available	Kernel Driver	False	Disabled	Disabled	False	False
asc	asc	Not Available	Kernel Driver	False	Disabled	Disabled	False	False
asc3350p	asc3350p	Not Available	Kernel Driver	False	False	False	False	False
asc3550	asc3550	Not Available	Kernel Driver	False	Disabled	Disabled	False	False
asynctmac	RAS Asynchronous Media Driver	c:\winnt\system32\drivers\asynctmac.sys	Kernel Driver	False	False	False	False	False
atapi	Standard IDE/ESDI Hard Disk Controller	c:\winnt\system32\drivers\atapi.sys	Kernel Driver	True	Boot	Boot	True	True
atdisk	Atdisk	Not Available	Kernel Driver	False	Disabled	Disabled	False	False
atirage3	atirage3	c:\winnt\system32\drivers\atimpab.sys	Kernel Driver	True	Manual	Running	OK	Ignore
atmarpc	ATM ARP Client Protocol	c:\winnt\system32\drivers\atmarpc.sys	Kernel Driver	False	Manual	Manual	False	Manual
audstub	Audio Stub Driver	c:\winnt\system32\drivers\audstub.sys	Kernel Driver	True	Manual	Running	OK	Normal
b57w2k	Broadcom NetXtreme Gigabit Ethernet	c:\winnt\system32\drivers\b57w2k.sys	Kernel Driver	True	Manual	Manual	True	Manual
beep	Beep	c:\winnt\system32\drivers\beep.sys	Kernel Driver	True	System	Running	OK	Normal
buslogic	BusLogic	Not Available	Kernel Driver	False	False	False	False	False
cd20xrnt	cd20xrnt	Not Available	Kernel Driver	False	False	False	False	False
cdaudio	Cdaudio	c:\winnt\system32\drivers\cdaudio.sys	Kernel Driver	False	System	Stopped	OK	Ignore

```

cdfs Cdfs c:\winnt\system32\drivers\cdfs.sys File System Driver
True Disabled Running OK Normal False True
cdrom CD-ROM Driver c:\winnt\system32\drivers\cdrom.sys Kernel Driver
True System Running OK Normal False True
changer Changer Not Available Kernel Driver False System Stopped OK
Ignore False False
cpqarray Cpqarray Not Available Kernel Driver False
Disabled Stopped OK Normal False False
cpqarray2 cpqarray2 Not Available Kernel Driver False
Disabled Stopped OK Normal False False
cpqfcalm cpqfcalm Not Available Kernel Driver False
Disabled Stopped OK Normal False False
cpqfws2e cpqfws2e Not Available Kernel Driver False
Disabled Stopped OK Normal False False
dac960nt dac960nt Not Available Kernel Driver False
Disabled Stopped OK Normal False False
deckzpsx deckzpsx Not Available Kernel Driver False
Disabled Stopped OK Normal False False
dfsdriver DfsDriver c:\winnt\system32\drivers\dfs.sys File
System Driver True Boot Running OK Normal False True
disk Disk Driver c:\winnt\system32\drivers\disk.sys Kernel Driver
True Boot Running OK Normal False True
diskperf Diskperf c:\winnt\system32\drivers\diskperf.sys
Kernel Driver True Boot Running OK Normal False True
dmboot dmboot c:\winnt\system32\drivers\dmboot.sys Kernel Driver False
Disabled Stopped OK Normal False False
dmio Logical Disk Manager Driver c:\winnt\system32\drivers\dmio.sys
Kernel Driver True Boot Running OK Normal False True
dmload dmload c:\winnt\system32\drivers\dmload.sys Kernel Driver True
Boot Running OK Normal False True
efs EFS c:\winnt\system32\drivers\efs.sys File System Driver
True Disabled Running OK Normal False True
fastfat Fastfat c:\winnt\system32\drivers\fastfat.sys File System Driver
True Disabled Running OK Normal False True
fdl6_700 Fdl6_700 Not Available Kernel Driver False
Disabled Stopped OK Normal False False
fdc Floppy Disk Controller Driver c:\winnt\system32\drivers\fdc.sys
Kernel Driver True Manual Running OK Normal False True
fips Fips c:\winnt\system32\drivers\fips.sys Kernel Driver True
Auto Running OK Normal False True
fireport fireport Not Available Kernel Driver False
Disabled Stopped OK Normal False False
flashpnt flashpnt Not Available Kernel Driver False
Disabled Stopped OK Normal False False
flpydisk Floppy Disk Driver
c:\winnt\system32\drivers\flpydisk.sys Kernel Driver True
Manual Running OK Normal False True
ftdisk Volume Manager Driver c:\winnt\system32\drivers\ftdisk.sys Kernel
Driver True Boot Running OK Normal False True
gnindis cLAN NDIS Driver c:\winnt\system32\drivers\gnindis.sys Kernel
Driver True Auto Running OK Normal False True
gnivia cLAN VIA Driver c:\winnt\system32\drivers\gnivia.sys Kernel
Driver True Auto Running OK Normal False True
gpc Generic Packet Classifier c:\winnt\system32\drivers\msgpc.sys
Kernel Driver True Manual Running OK Normal False True
i8042prt i8042 Keyboard and PS/2 Mouse Port Driver
c:\winnt\system32\drivers\i8042prt.sys Kernel Driver True
System Running OK Normal False True

```

```

ini910u ini910u Not Available Kernel Driver False Disabled
Stopped OK Normal False False
intelide IntelIde Not Available Kernel Driver False
Disabled Stopped OK Normal False False
ipfilterdriver IP Traffic Filter Driver
c:\winnt\system32\drivers\ipfltdrv.sys Kernel Driver False
Manual Stopped OK Normal False False
ipinip IP in IP Tunnel Driver c:\winnt\system32\drivers\ipinip.sys Kernel
Driver False Manual Stopped OK Normal False False
ipnat IP Network Address Translator c:\winnt\system32\drivers\ipnat.sys
Kernel Driver False Manual Stopped OK Normal False False
ipsec IPSEC driver c:\winnt\system32\drivers\ipsec.sys Kernel Driver
False Manual Stopped OK Normal False False
ipsraidn ipsraidn Not Available Kernel Driver False
Disabled Stopped OK Normal False False
irenum IR Enumerator Service c:\winnt\system32\drivers\irenum.sys Kernel
Driver False Manual Stopped OK Normal False False
isapnp PnP ISA/EISA Bus Driver c:\winnt\system32\drivers\isapnp.sys
Kernel Driver True Boot Running OK Critical False
True
kbdclass Keyboard Class Driver
c:\winnt\system32\drivers\kbdclass.sys Kernel Driver True
System Running OK Normal False True
ksecdd KSecDD c:\winnt\system32\drivers\ksecdd.sys Kernel Driver True
Boot Running OK Normal False True
lbrtfdc lbrtfdc Not Available Kernel Driver False System Stopped OK
Ignore False False
lp6nds35 lp6nds35 Not Available Kernel Driver False
Disabled Stopped OK Normal False False
mnmdd mnmdd c:\winnt\system32\drivers\mnmdd.sys Kernel Driver True
System Running OK Ignore False True
modem Modem c:\winnt\system32\drivers\modem.sys Kernel Driver False
Manual Stopped OK Ignore False False
mouclass Mouse Class Driver
c:\winnt\system32\drivers\mouclass.sys Kernel Driver True
System Running OK Normal False True
mountmgr MountMgr c:\winnt\system32\drivers\mountmgr.sys
Kernel Driver True Boot Running OK Normal False True
mraid35x mraid35x Not Available Kernel Driver False
Disabled Stopped OK Normal False False
mrxsmb MRXSMB c:\winnt\system32\drivers\mrxsmb.sys File System Driver
True System Running OK Normal False True
msfs Msfs c:\winnt\system32\drivers\msfs.sys File System Driver
True System Running OK Normal False True
mskssrv Microsoft Streaming Service Proxy
c:\winnt\system32\drivers\mskssrv.sys Kernel Driver False Manual
Stopped OK Normal False False
mspclock Microsoft Streaming Clock Proxy
c:\winnt\system32\drivers\mspclock.sys Kernel Driver False
Manual Stopped OK Normal False False
mspqm Microsoft Streaming Quality Manager Proxy
c:\winnt\system32\drivers\mspqm.sys Kernel Driver False Manual
Stopped OK Normal False False
mup Mup c:\winnt\system32\drivers\mup.sys File System Driver
True Boot Running OK Normal False True
ncrc710 Ncrc710 Not Available Kernel Driver False Disabled
Stopped OK Normal False False
ndis NDIS System Driver c:\winnt\system32\drivers\ndis.sys Kernel
Driver True Boot Running OK Normal False True

```

ndistapi	Remote Access NDIS TAPI Driver	c:\winnt\system32\drivers\ndistapi.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
ndiswan	Remote Access NDIS WAN Driver	c:\winnt\system32\drivers\ndiswan.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
ndproxy	NDIS Proxy	c:\winnt\system32\drivers\ndproxy.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
netbios	NetBIOS Interface	c:\winnt\system32\drivers\netbios.sys	File System Driver	True	System	Running OK	Normal	False	True
netbt	NetBios over Tcpip	c:\winnt\system32\drivers\netbt.sys	Kernel Driver	True	System	Running OK	Normal	False	True
netdetect	NetDetect	c:\winnt\system32\drivers\netdetect.sys	Kernel Driver	False	Manual	Stopped OK	Normal	False	False
npfs	Npfs	c:\winnt\system32\drivers\npfs.sys	File System Driver	True	System	Running OK	Normal	False	True
ntfs	Ntfs	c:\winnt\system32\drivers\ntfs.sys	File System Driver	True	Disabled	Running OK	Normal	False	True
null	Null	c:\winnt\system32\drivers\null.sys	Kernel Driver	True	System	Running OK	Normal	False	True
nwlkflt	IPX Traffic Filter Driver	c:\winnt\system32\drivers\nwlkflt.sys	Kernel Driver	False	Manual	Stopped OK	Normal	False	False
nwlkfwd	IPX Traffic Forwarder Driver	c:\winnt\system32\drivers\nwlkfwd.sys	Kernel Driver	False	Manual	Stopped OK	Normal	False	False
openhci	Microsoft USB Open Host Controller Driver	c:\winnt\system32\drivers\openhci.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
parallel	Parallel	c:\winnt\system32\drivers\parallel.sys	Kernel Driver	False	Auto	Stopped OK	Ignore	False	False
parport	Parport	c:\winnt\system32\drivers\parport.sys	Kernel Driver	False	Auto	Stopped OK	Ignore	False	False
partmgr	PartMgr	c:\winnt\system32\drivers\partmgr.sys	Kernel Driver	True	Boot	Running OK	Normal	False	True
parvdm	ParVdm	c:\winnt\system32\drivers\parvdm.sys	Kernel Driver	False	Auto	Stopped OK	Ignore	False	False
pci	PCI Bus Driver	c:\winnt\system32\drivers\pci.sys	Kernel Driver	True	Boot	Running OK	Critical	False	True
pcidump	PCIDump	Not Available	Kernel Driver	False	System	Stopped OK	Ignore	False	False
pciide	PCIIde	c:\winnt\system32\drivers\pciide.sys	Kernel Driver	True	Boot	Running OK	Normal	False	True
pcmcia	Pcmcia	c:\winnt\system32\drivers\pcmcia.sys	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
pdcomp	PDCOMP	Not Available	Kernel Driver	False	Manual	Stopped OK	Ignore	False	False
pdframe	PDFRAME	Not Available	Kernel Driver	False	Manual	Stopped OK	Ignore	False	False
pdreli	PDRELI	Not Available	Kernel Driver	False	Manual	Stopped OK	Ignore	False	False
pdrframe	PDRFRAME	Not Available	Kernel Driver	False	Manual	Stopped OK	Ignore	False	False
pptpminiport	WAN Miniport (PPTP)	c:\winnt\system32\drivers\rasppptp.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
ptilink	Direct Parallel Link Driver	c:\winnt\system32\drivers\ptilink.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True

ql1080	ql1080	Not Available	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
ql10wnt	Ql10wnt	Not Available	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
ql1240	ql1240	Not Available	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
ql2100	ql2100	Not Available	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
rasacd	Remote Access Auto Connection Driver	c:\winnt\system32\drivers\rasacd.sys	Kernel Driver	True	System	Running OK	Normal	False	True
rasl2tp	WAN Miniport (L2TP)	c:\winnt\system32\drivers\rasl2tp.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
raspti	Direct Parallel	c:\winnt\system32\drivers\raspti.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
rca	Microsoft Streaming Network Raw Channel Access	c:\winnt\system32\drivers\rca.sys	Kernel Driver	False	Manual	Stopped OK	Normal	False	False
rdbss	Rdbss	c:\winnt\system32\drivers\rdbss.sys	File System Driver	True	System	Running OK	Normal	False	True
rdpdr	Terminal Server Device Redirector Driver	c:\winnt\system32\drivers\rdpdr.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
rdpwd	RDPWD	c:\winnt\system32\drivers\rdpwd.sys	Kernel Driver	True	Manual	Running OK	Ignore	False	True
redbook	Digital CD Audio Playback Filter Driver	c:\winnt\system32\drivers\redbook.sys	Kernel Driver	False	System	Stopped OK	Normal	False	False
serenum	Serenum Filter Driver	c:\winnt\system32\drivers\serenum.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
serial	Serial port driver	c:\winnt\system32\drivers\serial.sys	Kernel Driver	True	System	Running OK	Ignore	False	True
sfloppy	Sfloppy	c:\winnt\system32\drivers\sfloppy.sys	Kernel Driver	False	System	Stopped OK	Ignore	False	False
sglfb	sglfb	Not Available	Kernel Driver	False	System	Stopped OK	Normal	False	False
simbad	Simbad	Not Available	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
sparrow	Sparrow	Not Available	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
spud	Special Purpose Utility Driver	c:\winnt\system32\drivers\spud.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
srv	Srv	c:\winnt\system32\drivers\srv.sys	File System Driver	True	Manual	Running OK	Normal	False	True
swenum	Software Bus Driver	c:\winnt\system32\drivers\swenum.sys	Kernel Driver	True	Manual	Running OK	Normal	False	True
symc810	symc810	Not Available	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
symc8xx	symc8xx	Not Available	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
sym_hi	sym_hi	Not Available	Kernel Driver	False	Disabled	Stopped OK	Normal	False	False
tcpip	TCP/IP Protocol Driver	c:\winnt\system32\drivers\tcpip.sys	Kernel Driver	True	System	Running OK	Normal	False	True
tdasync	TDASync	c:\winnt\system32\drivers\tdasync.sys	Kernel Driver	False	Manual	Stopped OK	Ignore	False	False
tdipx	TDIPX	c:\winnt\system32\drivers\tdipx.sys	Kernel Driver	False	Manual	Stopped OK	Ignore	False	False

```

tdnetb TDNETB c:\winnt\system32\drivers\tdnetb.sys Kernel Driver False
Manual Stopped OK Ignore False False
tdpipe TDDPIPE c:\winnt\system32\drivers\tdpipe.sys Kernel Driver False
Manual Stopped OK Ignore False False
tdspix TDSPX c:\winnt\system32\drivers\tdspix.sys Kernel Driver False
Manual Stopped OK Ignore False False
tdtcp TDTCP c:\winnt\system32\drivers\tdtcp.sys Kernel Driver True
Manual Running OK Ignore False True
termdd Terminal Device Driver c:\winnt\system32\drivers\termdd.sys Kernel
Driver True Auto Running OK Normal False True
tga tga Not Available Kernel Driver False System Stopped OK
Ignore False False
udfs Udfs c:\winnt\system32\drivers\udfs.sys File System Driver
False Disabled Stopped OK Normal False False
ultra66 ultra66 Not Available Kernel Driver False Disabled
Stopped OK Normal False False
update Microcode Update Driver c:\winnt\system32\drivers\update.sys
Kernel Driver True Manual Running OK Normal False True
usbhub Microsoft USB Standard Hub Driver
c:\winnt\system32\drivers\usbhub.sys Kernel Driver True Manual
Running OK Normal False True
vgasave VgaSave c:\winnt\system32\drivers\vga.sys Kernel Driver True
System Running OK Ignore False True
wanarp Remote Access IP ARP Driver c:\winnt\system32\drivers\wanarp.sys
Kernel Driver True Manual Running OK Normal False True
wdica WDICA Not Available Kernel Driver False Manual Stopped OK
Ignore False False

```

[Environment Variables]

```

Variable Value User Name
ComSpec %SystemRoot%\system32\cmd.exe <SYSTEM>
Os2LibPath %SystemRoot%\system32\os2\dll; <SYSTEM>
Path %SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;C:\P
rogram Files\Microsoft SQL Server\80\Tools\BINN <SYSTEM>
windir %SystemRoot% <SYSTEM>
OS Windows_NT <SYSTEM>
PROCESSOR_ARCHITECTURE x86 <SYSTEM>
PROCESSOR_LEVEL 15 <SYSTEM>
PROCESSOR_IDENTIFIER x86 Family 15 Model 2 Stepping 4, GenuineIntel
<SYSTEM>
PROCESSOR_REVISION 0204 <SYSTEM>
NUMBER_OF_PROCESSORS 2 <SYSTEM>
PATHEXT .COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH <SYSTEM>
TEMP %SystemRoot%\TEMP <SYSTEM>
TMP %SystemRoot%\TEMP <SYSTEM>
TEMP %USERPROFILE%\Local Settings\Temp CLIENT1\Administrator
TMP %USERPROFILE%\Local Settings\Temp CLIENT1\Administrator

```

[Jobs]

[Following are sub-categories of this main category]

[Print]

```

Document Size Owner Notify Status Time Submitted Start Time
Until Time Elapsed Time Pages Printed Job ID Priority

```

```

Parameters Driver Name Print Processor Host Print
Queue Data Type Name
Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown
Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown
Unknown
[Network Connections]
Local Name Remote Name Type Status User Name
No network connections information
[Running Tasks]
Name Path Process ID Priority Min Working Set Max
Working Set Start Time Version Size File Date
system idle process Not Available 0 0 Not Available Not
Available Not Available Unknown Unknown Unknown
system Not Available 8 8 0 1413120 Not Available
Unknown Unknown Unknown
smss.exe c:\winnt\system32\smss.exe 180 11 204800
1413120 11/17/2002 7:19:43 PM 5.00.2195.5382 44.77 KB (45,840
bytes) 12/7/1999 4:00:00 AM
csrss.exe Not Available 208 13 Not Available Not Available
11/17/2002 7:19:45 PM Unknown Unknown Unknown
winlogon.exe c:\winnt\system32\winlogon.exe 204 13 204800
1413120 11/17/2002 7:19:46 PM 5.00.2195.5386 174.77 KB (178,960
bytes) 11/14/2002 9:53:44 PM
services.exe c:\winnt\system32\services.exe 260 9 204800
1413120 11/17/2002 7:19:47 PM 5.00.2195.3940 86.77 KB (88,848
bytes) 12/7/1999 4:00:00 AM
lsass.exe c:\winnt\system32\lsass.exe 272 9 204800
1413120 11/17/2002 7:19:47 PM 5.00.2195.5430 32.77 KB (33,552
bytes) 12/7/1999 4:00:00 AM
termsrv.exe c:\winnt\system32\termsrv.exe 384 10 204800
1413120 11/17/2002 7:19:47 PM 5.00.2195.5276 138.77 KB (142,096
bytes) 11/14/2002 9:53:42 PM
gnconmgr.exe c:\winnt\system32\gnconmgr.exe 448 8 204800
1413120 11/17/2002 7:19:49 PM 4.2.0.75 168.05 KB (172,079
bytes) 11/17/2002 4:57:41 PM
svchost.exe c:\winnt\system32\svchost.exe 488 8 204800
1413120 11/17/2002 7:19:49 PM 5.00.2134.1 7.77 KB (7,952 bytes)
12/7/1999 4:00:00 AM
msdtc.exe c:\winnt\system32\msdtc.exe 512 8 204800
1413120 11/17/2002 7:19:49 PM 1999.9.3421.3 6.77 KB (6,928 bytes)
11/14/2002 12:44:42 PM
svchost.exe c:\winnt\system32\svchost.exe 640 8 204800
1413120 11/17/2002 7:19:50 PM 5.00.2134.1 7.77 KB (7,952 bytes)
12/7/1999 4:00:00 AM
mnmsrvc.exe c:\winnt\system32\mnmsrvc.exe 664 8 204800
1413120 11/17/2002 7:19:50 PM 4.4.3385 21.27 KB (21,776
bytes) 11/14/2002 8:47:09 PM
regsvc.exe c:\winnt\system32\regsvc.exe 680 8 204800
1413120 11/17/2002 7:19:50 PM 5.00.2195.3649 65.27 KB (66,832
bytes) 11/14/2002 9:53:37 PM
mstask.exe c:\winnt\system32\mstask.exe 700 8 204800
1413120 11/17/2002 7:19:50 PM 4.71.2195.1 115.77 KB (118,544
bytes) 11/14/2002 9:53:29 PM

```

```

winmgmt.exe c:\winnt\system32\wbem\winmgmt.exe 756 8 204800
1413120 11/17/2002 7:19:51 PM 1.50.1085.0070 192.08 KB (196,685
bytes) 11/14/2002 9:53:50 PM
explorer.exe c:\winnt\explorer.exe 928 8 204800 1413120
11/17/2002 7:19:53 PM 5.00.3502.5321 237.27 KB (242,960 bytes)
11/14/2002 9:53:45 PM
rhostsrvr.exe c:\rhost\rhostsrvr.exe 996 8 204800 1413120
11/17/2002 7:19:55 PM Not Available 54.50 KB (55,808 bytes)
10/8/2002 4:29:32 PM
cmd.exe c:\winnt\system32\cmd.exe 1020 8 204800 1413120
11/17/2002 7:19:56 PM 5.00.2195.4803 230.77 KB (236,304 bytes)
12/7/1999 4:00:00 AM
dllhost.exe Not Available 1132 8 Not Available Not Available
11/17/2002 7:21:30 PM Unknown Unknown Unknown
csrss.exe Not Available 2004 13 Not Available Not Available
11/18/2002 12:17:43 AM Unknown Unknown Unknown
winlogon.exe c:\winnt\system32\winlogon.exe 2028 13 204800
1413120 11/18/2002 12:17:43 AM 5.00.2195.5386 174.77 KB (178,960
bytes) 11/14/2002 9:53:44 PM
rdpclip.exe c:\winnt\system32\rdpclip.exe 2052 8 204800
1413120 11/18/2002 12:17:47 AM 5.00.2174.1 39.77 KB (40,720
bytes) 11/14/2002 12:44:44 PM
explorer.exe c:\winnt\explorer.exe 1324 8 204800 1413120
11/18/2002 12:17:47 AM 5.00.3502.5321 237.27 KB (242,960 bytes)
11/14/2002 9:53:45 PM
msinfo32.exe c:\program files\microsoft
shared\msinfo\msinfo32.exe 1112 8 204800 1413120 11/18/2002
12:17:53 AM 5.00.2134.1 15.77 KB (16,144 bytes) 11/14/2002
8:47:06 PM
rsvp.exe c:\winnt\system32\rsvp.exe 1984 8 204800
1413120 11/18/2002 12:18:06 AM 5.00.2167.1 172.77 KB (176,912
bytes) 12/7/1999 4:00:00 AM

```

[Loaded Modules]

Name	Version	Size	File Date	Manufacturer	Path
traffic.dll	5.00.2139.1	30.77 KB (31,504 bytes)			12/7/1999 4:00:00 AM
rsvp.exe	5.00.2167.1	172.77 KB (176,912 bytes)			12/7/1999 4:00:00 AM
wbemprox.dll	1.50.1085.0045	40.08 KB (41,040 bytes)			11/14/2002 9:53:50 PM
cabinet.dll	5.00.2147.1	54.77 KB (56,080 bytes)			12/7/1999 4:00:00 AM
msinfo32.dll	5.00.2195.4601	312.27 KB (319,760 bytes)			11/14/2002 9:53:51 PM
mfcd42u.dll	6.00.8665.0	972.05 KB (995,384 bytes)			12/7/1999 4:00:00 AM
msinfo32.exe	5.00.2134.1	15.77 KB (16,144 bytes)			11/14/2002 8:47:06 PM
rdpclip.exe	5.00.2174.1	39.77 KB (40,720 bytes)			11/14/2002 12:44:44 PM
cmd.exe	5.00.2195.4803	230.77 KB (236,304 bytes)			12/7/1999 4:00:00 AM
rhostsrvr.exe	Not Available	54.50 KB (55,808 bytes)			10/8/2002 4:29:32 PM

```

ntshrui.dll 5.00.2134.1 46.77 KB (47,888 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\ntshrui.dll
linkinfo.dll 5.00.2134.1 15.77 KB (16,144 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\linkinfo.dll
msi.dll 2.0.2600.1 1.90 MB (1,991,168 bytes) 11/14/2002 9:53:27 PM
Microsoft Corporation c:\winnt\system32\msi.dll
powrprof.dll 5.00.3502.5305 13.27 KB (13,584 bytes) 11/14/2002
9:53:36 PM Microsoft Corporation c:\winnt\system32\powrprof.dll
batmeter.dll 5.00.3502.5305 20.27 KB (20,752 bytes) 11/14/2002
9:53:10 PM Microsoft Corporation c:\winnt\system32\batmeter.dll
stobject.dll 5.00.2195.4455 79.27 KB (81,168 bytes) 11/14/2002
9:53:41 PM Microsoft Corporation c:\winnt\system32\stobject.dll
webcheck.dll 5.00.3315.3727 250.77 KB (256,784 bytes) 11/14/2002
9:53:44 PM Microsoft Corporation c:\winnt\system32\webcheck.dll
browseui.dll 5.00.3502.4373 791.27 KB (810,256 bytes) 11/14/2002
9:53:10 PM Microsoft Corporation c:\winnt\system32\browseui.dll
shdocvw.dll 5.00.3502.5400 1.05 MB (1,105,168 bytes) 11/14/2002
9:53:39 PM Microsoft Corporation c:\winnt\system32\shdocvw.dll
explorer.exe 5.00.3502.5321 237.27 KB (242,960 bytes) 11/14/2002
9:53:45 PM Microsoft Corporation c:\winnt\explorer.exe
netui1.dll 5.00.2134.1 210.27 KB (215,312 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\netui1.dll
netui0.dll 5.00.2195.4874 70.77 KB (72,464 bytes) 11/14/2002
9:53:32 PM Microsoft Corporation c:\winnt\system32\netui0.dll
ntlanman.dll 5.00.2195.5428 35.27 KB (36,112 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\ntlanman.dll
wshnetbs.dll 5.00.2134.1 7.77 KB (7,952 bytes) 12/7/1999 4:00:00 AM
Microsoft Corporation c:\winnt\system32\wshnetbs.dll
ntmarta.dll 5.00.2195.4836 99.77 KB (102,160 bytes) 11/14/2002
9:53:33 PM Microsoft Corporation c:\winnt\system32\ntmarta.dll
provthrd.dll 1.50.1085.0000 68.07 KB (69,708 bytes) 11/14/2002
8:46:58 PM Microsoft Corporation c:\winnt\system32\wbem\provthrd.dll
ntevt.dll 1.50.1085.0072 192.06 KB (196,671 bytes) 11/14/2002
9:53:49 PM Microsoft Corporation c:\winnt\system32\wbem\ntevt.dll
perfos.dll 5.00.2155.1 21.27 KB (21,776 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\perfos.dll
psapi.dll 5.00.2134.1 28.27 KB (28,944 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\psapi.dll
framedyn.dll 1.50.1085.0076 164.07 KB (168,009 bytes) 11/14/2002
9:53:48 PM Microsoft Corporation c:\winnt\system32\wbem\framedyn.dll
cimwin32.dll 1.50.1085.0073 1.04 MB (1,085,520 bytes) 11/14/2002
9:53:48 PM Microsoft Corporation c:\winnt\system32\wbem\cimwin32.dll
wbemsvc.dll 1.50.1085.0007 40.07 KB (41,036 bytes) 11/14/2002
9:53:50 PM Microsoft Corporation c:\winnt\system32\wbem\wbemsvc.dll
wbemess.dll 1.50.1085.0074 364.07 KB (372,804 bytes) 11/14/2002
9:53:50 PM Microsoft Corporation c:\winnt\system32\wbem\wbemess.dll
fastprox.dll 1.50.1085.0056 144.08 KB (147,536 bytes) 11/14/2002
9:53:48 PM Microsoft Corporation c:\winnt\system32\wbem\fastprox.dll
wbemcore.dll 1.50.1085.0085 628.07 KB (643,146 bytes) 11/14/2002
9:53:49 PM Microsoft Corporation c:\winnt\system32\wbem\wbemcore.dll
wbemcomn.dll 1.50.1085.0077 692.07 KB (708,675 bytes) 11/14/2002
9:53:49 PM Microsoft Corporation c:\winnt\system32\wbem\wbemcomn.dll
winmgmt.exe 1.50.1085.0070 192.08 KB (196,685 bytes) 11/14/2002
9:53:50 PM Microsoft Corporation c:\winnt\system32\wbem\winmgmt.exe
msidle.dll 5.00.2920.0000 6.27 KB (6,416 bytes) 12/7/1999 4:00:00 AM
Microsoft Corporation c:\winnt\system32\msidle.dll
mstask.exe 4.71.2195.1 115.77 KB (118,544 bytes) 11/14/2002
9:53:29 PM Microsoft Corporation c:\winnt\system32\mstask.exe

```


regsvcs.exe 5.00.2195.3649 65.27 KB (66,832 bytes) 11/14/2002
 9:53:37 PM Microsoft Corporation c:\winnt\system32\regsvcs.exe
 dcap32.dll 4.4.3385 35.77 KB (36,624 bytes) 11/14/2002
 8:47:09 PM Microsoft Corporation c:\program
 files\netmeeting\dcap32.dll
 msvfw32.dll 5.00.2134.1 113.77 KB (116,496 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\msvfw32.dll
 msacm32.dll 5.00.2134.1 65.27 KB (66,832 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\msacm32.dll
 nac.dll 4.4.3385 196.77 KB (201,488 bytes) 11/14/2002 8:47:08 PM
 Microsoft Corporation c:\program files\netmeeting\nac.dll
 callcont.dll 4.4.3385 383.77 KB (392,976 bytes) 11/14/2002
 9:53:56 PM Microsoft Corporation c:\program
 files\netmeeting\callcont.dll
 h323cc.dll 4.4.3385 39.27 KB (40,208 bytes) 11/14/2002
 8:47:08 PM Microsoft Corporation c:\program
 files\netmeeting\h323cc.dll
 nmasnt.dll 4.4.3385 8.77 KB (8,976 bytes) 11/14/2002 8:47:08 PM
 Microsoft Corporation c:\program files\netmeeting\nmasnt.dll
 nmas.dll 4.4.3385 207.27 KB (212,240 bytes) 11/14/2002
 8:47:08 PM Microsoft Corporation c:\program files\netmeeting\nmas.dll
 mst120.dll 4.4.3385 241.77 KB (247,568 bytes) 11/14/2002
 9:53:57 PM Microsoft Corporation c:\program
 files\netmeeting\mst120.dll
 nmcom.dll 4.4.3385 60.77 KB (62,224 bytes) 11/14/2002
 9:53:57 PM Microsoft Corporation c:\program
 files\netmeeting\nmcom.dll
 mnmsrvc.exe 4.4.3385 21.27 KB (21,776 bytes) 11/14/2002
 8:47:09 PM Microsoft Corporation c:\winnt\system32\mnmsrvc.exe
 rasdlg.dll 5.00.2195.5438 515.77 KB (528,144 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\rasdlg.dll
 netcfgx.dll 5.00.2195.4874 534.77 KB (547,600 bytes) 11/14/2002
 9:53:31 PM Microsoft Corporation c:\winnt\system32\netcfgx.dll
 rasmans.dll 5.00.2195.5436 149.27 KB (152,848 bytes) 11/14/2002
 9:53:36 PM Microsoft Corporation c:\winnt\system32\rasmans.dll
 wmi.dll 5.00.2191.1 6.27 KB (6,416 bytes) 12/7/1999 4:00:00 AM
 Microsoft Corporation c:\winnt\system32\wmi.dll
 netshell.dll 5.00.2195.5431 457.77 KB (468,752 bytes) 11/14/2002
 9:53:32 PM Microsoft Corporation c:\winnt\system32\netshell.dll
 netman.dll 5.00.2195.5282 89.27 KB (91,408 bytes) 11/14/2002
 9:53:32 PM Microsoft Corporation c:\winnt\system32\netman.dll
 sens.dll 5.00.2163.1 36.77 KB (37,648 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\sens.dll
 es.dll 2000.2.3497.0 225.27 KB (230,672 bytes) 11/14/2002 9:53:17 PM
 Microsoft Corporation c:\winnt\system32\es.dll
 mtxoci.dll 2000.2.3497.0 103.77 KB (106,256 bytes) 11/14/2002
 9:53:31 PM Microsoft Corporation c:\winnt\system32\mtxoci.dll
 resutils.dll 5.00.2195.5339 39.77 KB (40,720 bytes) 11/14/2002
 9:53:37 PM Microsoft Corporation c:\winnt\system32\resutils.dll
 clusapi.dll 5.00.2195.4678 54.27 KB (55,568 bytes) 11/14/2002
 9:53:12 PM Microsoft Corporation c:\winnt\system32\clusapi.dll
 msvcp50.dll 5.00.7051 552.50 KB (565,760 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\msvcp50.dll
 xolehlp.dll 1999.9.3421.3 17.27 KB (17,680 bytes) 11/14/2002
 12:44:42 PM Microsoft Corporation c:\winnt\system32\xolehlp.dll
 msdtclog.dll 2000.2.3497.0 86.77 KB (88,848 bytes) 11/14/2002
 9:53:25 PM Microsoft Corporation c:\winnt\system32\msdtclog.dll
 mtxcclu.dll 2000.2.3497.0 51.27 KB (52,496 bytes) 11/14/2002
 9:53:31 PM Microsoft Corporation c:\winnt\system32\mtxcclu.dll

msdtcprx.dll 2000.2.3497.0 683.77 KB (700,176 bytes) 11/14/2002
 9:53:25 PM Microsoft Corporation c:\winnt\system32\msdtcprx.dll
 txfaux.dll 2000.2.3497.0 383.27 KB (392,464 bytes) 11/14/2002
 9:53:42 PM Microsoft Corporation c:\winnt\system32\txfaux.dll
 msdtctcm.dll 2000.2.3497.0 1.08 MB (1,128,208 bytes) 11/14/2002
 9:53:25 PM Microsoft Corporation c:\winnt\system32\msdtctcm.dll
 msdtc.exe 1999.9.3421.3 6.77 KB (6,928 bytes) 11/14/2002 12:44:42
 PM Microsoft Corporation c:\winnt\system32\msdtc.exe
 rasadhlp.dll 5.00.2168.1 7.27 KB (7,440 bytes) 12/7/1999 4:00:00 AM
 Microsoft Corporation c:\winnt\system32\rasadhlp.dll
 winnrn.dll 5.00.2160.1 18.77 KB (19,216 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\winnrn.dll
 dhcpcsvc.dll 5.00.2195.4874 87.77 KB (89,872 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\dhcpcsvc.dll
 tapi32.dll 5.00.2182.1 123.27 KB (126,224 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\tapi32.dll
 rasman.dll 5.00.2195.5292 54.77 KB (56,080 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\rasman.dll
 rasapi32.dll 5.00.2195.5438 191.77 KB (196,368 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\rasapi32.dll
 icmp.dll 5.00.2134.1 7.27 KB (7,440 bytes) 12/7/1999 4:00:00 AM
 Microsoft Corporation c:\winnt\system32\icmp.dll
 iphlpapi.dll 5.00.2195.2 68.27 KB (69,904 bytes) 11/14/2002
 9:53:20 PM Microsoft Corporation c:\winnt\system32\iphlpapi.dll
 rnr20.dll 5.00.2195.4874 35.77 KB (36,624 bytes) 11/14/2002
 9:53:37 PM Microsoft Corporation c:\winnt\system32\rnr20.dll
 wshtcpip.dll 5.00.2195.4874 17.27 KB (17,680 bytes) 11/14/2002
 9:53:45 PM Microsoft Corporation c:\winnt\system32\wshtcpip.dll
 msafd.dll 5.00.2195.4874 103.27 KB (105,744 bytes) 11/14/2002
 9:53:24 PM Microsoft Corporation c:\winnt\system32\msafd.dll
 rpcss.dll 5.00.2195.5429 231.27 KB (236,816 bytes) 11/14/2002
 9:53:38 PM Microsoft Corporation c:\winnt\system32\rpcss.dll
 svchost.exe 5.00.2134.1 7.77 KB (7,952 bytes) 12/7/1999 4:00:00 AM
 Microsoft Corporation c:\winnt\system32\svchost.exe
 vipl.dll 4.2.0.75 80.00 KB (81,920 bytes) 11/17/2002
 4:57:41 PM Gigaset Incorporated c:\winnt\system32\vipl.dll
 gnconmgr.exe 4.2.0.75 168.05 KB (172,079 bytes) 11/17/2002
 4:57:41 PM Gigaset Incorporated c:\winnt\system32\gnconmgr.exe
 rdpwsx.dll 5.00.2195.5243 97.90 KB (100,248 bytes) 11/14/2002
 9:53:37 PM Microsoft Corporation c:\winnt\system32\rdpwsx.dll
 mstlsapi.dll 5.00.2195.3895 25.77 KB (26,384 bytes) 11/14/2002
 9:53:30 PM Microsoft Corporation c:\winnt\system32\mstlsapi.dll
 icaapi.dll 5.00.2195.3895 122.77 KB (125,712 bytes) 11/14/2002
 9:53:19 PM Microsoft Corporation c:\winnt\system32\icaapi.dll
 regapi.dll 5.00.2195.5201 35.27 KB (36,112 bytes) 11/14/2002
 9:53:37 PM Microsoft Corporation c:\winnt\system32\regapi.dll
 termsrv.exe 5.00.2195.5276 138.77 KB (142,096 bytes) 11/14/2002
 9:53:42 PM Microsoft Corporation c:\winnt\system32\termsrv.exe
 iissuba.dll 5.00.0984 9.77 KB (10,000 bytes) 12/7/1999 4:00:00 AM
 Microsoft Corporation c:\winnt\system32\iissuba.dll
 cryptnet.dll 5.131.2195.3992 41.77 KB (42,768 bytes)
 11/14/2002 9:53:13 PM Microsoft Corporation
 c:\winnt\system32\cryptnet.dll
 dsenh.dll 5.00.2195.3665 142.77 KB (146,192 bytes) 11/14/2002
 9:53:59 PM Microsoft Corporation c:\winnt\system32\dsenh.dll
 scecli.dll 5.00.2195.4874 109.27 KB (111,888 bytes) 11/14/2002
 9:53:38 PM Microsoft Corporation c:\winnt\system32\scecli.dll
 atl.dll 3.00.9435 73.06 KB (74,810 bytes) 11/14/2002 9:53:09 PM
 Microsoft Corporation c:\winnt\system32\atl.dll

certcli.dll 5.00.2195.3649 130.27 KB (133,392 bytes) 11/14/2002
 9:53:11 PM Microsoft Corporation c:\winnt\system32\certcli.dll
 esent.dll 6.0.3940.25 1.09 MB (1,137,936 bytes) 11/14/2002
 9:53:17 PM Microsoft Corporation c:\winnt\system32\esent.dll
 mswsock.dll 5.00.2195.4874 62.77 KB (64,272 bytes) 11/14/2002
 9:53:30 PM Microsoft Corporation c:\winnt\system32\mswsock.dll
 ntdsatq.dll 5.00.2195.5246 31.27 KB (32,016 bytes) 11/14/2002
 9:53:32 PM Microsoft Corporation c:\winnt\system32\ntdsatq.dll
 ntdsa.dll 5.00.2195.5438 1002.27 KB (1,026,320 bytes) 11/14/2002
 9:53:32 PM Microsoft Corporation c:\winnt\system32\ntdsa.dll
 kdcsvc.dll 5.00.2195.5246 141.77 KB (145,168 bytes) 11/14/2002
 9:53:22 PM Microsoft Corporation c:\winnt\system32\kdcsvc.dll
 sfmapi.dll 5.00.2134.1 38.77 KB (39,696 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\sfmapi.dll
 rtutils.dll 5.00.2168.1 43.77 KB (44,816 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\rtutils.dll
 adslldpc.dll 5.00.2195.5400 127.77 KB (130,832 bytes) 11/14/2002
 9:53:08 PM Microsoft Corporation c:\winnt\system32\adslldpc.dll
 activeds.dll 5.00.2195.5312 175.27 KB (179,472 bytes) 11/14/2002
 9:53:04 PM Microsoft Corporation c:\winnt\system32\activeds.dll
 mprapi.dll 5.00.2181.1 79.27 KB (81,168 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\mprapi.dll
 rassfm.dll 5.00.2195.4874 21.27 KB (21,776 bytes) 11/14/2002
 9:53:37 PM Microsoft Corporation c:\winnt\system32\rassfm.dll
 rsabase.dll 5.00.2195.3839 128.27 KB (131,344 bytes) 7/22/2002
 1:05:04 PM Microsoft Corporation c:\winnt\system32\rsabase.dll
 schannel.dll 5.00.2195.5284 139.27 KB (142,608 bytes) 5/4/2001
 1:05:02 PM Microsoft Corporation c:\winnt\system32\schannel.dll
 netlogon.dll 5.00.2195.5400 362.77 KB (371,472 bytes) 11/14/2002
 9:53:31 PM Microsoft Corporation c:\winnt\system32\netlogon.dll
 msv1_0.dll 5.00.2195.4745 112.27 KB (114,960 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\msv1_0.dll
 kerberos.dll 5.00.2195.5246 202.77 KB (207,632 bytes) 11/14/2002
 9:53:22 PM Microsoft Corporation c:\winnt\system32\kerberos.dll
 msprivs.dll 5.00.2154.1 41.50 KB (42,496 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\msprivs.dll
 samsrv.dll 5.00.2195.5201 374.27 KB (383,248 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\samsrv.dll
 lsasrv.dll 5.00.2195.5430 500.27 KB (512,272 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\lsasrv.dll
 lsass.exe 5.00.2195.5430 32.77 KB (33,552 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\lsass.exe
 ntlsap.dll 5.00.2195.4907 6.77 KB (6,928 bytes) 12/7/1999 4:00:00 AM
 Microsoft Corporation c:\winnt\system32\ntlsapi.dll
 wmicore.dll 5.00.2195.3649 72.27 KB (74,000 bytes) 11/14/2002
 9:53:44 PM Microsoft Corporation c:\winnt\system32\wmicore.dll
 browser.dll 5.00.2195.4874 48.77 KB (49,936 bytes) 11/14/2002
 9:53:10 PM Microsoft Corporation c:\winnt\system32\browser.dll
 seclogon.dll 5.00.2195.5201 17.27 KB (17,680 bytes) 11/14/2002
 9:53:38 PM Microsoft Corporation c:\winnt\system32\seclogon.dll
 psbase.dll 5.00.2195.4822 111.77 KB (114,448 bytes) 11/14/2002
 9:53:36 PM Microsoft Corporation c:\winnt\system32\psbase.dll
 cryptsvc.dll 5.00.2195.4368 73.27 KB (75,024 bytes) 11/14/2002
 9:53:13 PM Microsoft Corporation c:\winnt\system32\cryptsvc.dll
 cryptdll.dll 5.00.2135.1 41.27 KB (42,256 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\cryptdll.dll
 wkssvc.dll 5.00.2195.4874 95.27 KB (97,552 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\wkssvc.dll

srvsvc.dll 5.00.2195.5400 81.77 KB (83,728 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\srvsvc.dll
 cfgmgr32.dll 5.00.2134.1 16.77 KB (17,168 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\cfgmgr32.dll
 dmserver.dll 2195.3649.297.3 12.27 KB (12,560 bytes)
 11/14/2002 9:53:15 PM VERITAS Software Corp.
 c:\winnt\system32\dmserver.dll
 eventlog.dll 5.00.2195.5336 44.27 KB (45,328 bytes) 11/14/2002
 9:53:17 PM Microsoft Corporation c:\winnt\system32\eventlog.dll
 ntdsapi.dll 5.00.2195.4827 56.27 KB (57,616 bytes) 11/14/2002
 9:53:32 PM Microsoft Corporation c:\winnt\system32\ntdsapi.dll
 scesrv.dll 5.00.2195.5316 242.77 KB (248,592 bytes) 11/14/2002
 9:53:38 PM Microsoft Corporation c:\winnt\system32\scesrv.dll
 umpnpgm.dll 5.00.2182.1 86.27 KB (88,336 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\umpnpgm.dll
 services.exe 5.00.2195.3940 86.77 KB (88,848 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\services.exe
 lz32.dll 5.00.2134.1 9.77 KB (10,000 bytes) 12/7/1999 4:00:00 AM
 Microsoft Corporation c:\winnt\system32\lz32.dll
 version.dll 5.00.2134.1 15.77 KB (16,144 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\version.dll
 clbcatq.dll 2000.2.3497.0 497.77 KB (509,712 bytes) 11/14/2002
 9:53:12 PM Microsoft Corporation c:\winnt\system32\clbcatq.dll
 oleaut32.dll 2.40.4518 612.27 KB (626,960 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\oleaut32.dll
 csui.dll 5.00.2195.4104 233.77 KB (239,376 bytes) 11/14/2002
 9:53:13 PM Microsoft Corporation c:\winnt\system32\csui.dll
 rsaenh.dll 5.00.2195.3839 130.77 KB (133,904 bytes) 11/14/2002
 9:53:59 PM Microsoft Corporation c:\winnt\system32\rsaenh.dll
 mscat32.dll 5.131.2134.1 7.77 KB (7,952 bytes) 12/7/1999 4:00:00 AM
 Microsoft Corporation c:\winnt\system32\mscat32.dll
 ole32.dll 5.00.2195.5400 968.27 KB (991,504 bytes) 11/14/2002
 9:53:35 PM Microsoft Corporation c:\winnt\system32\ole32.dll
 imagehlp.dll 5.00.2195.5242 125.77 KB (128,784 bytes) 5/4/2001
 1:05:02 PM Microsoft Corporation c:\winnt\system32\imagehlp.dll
 wintrust.dll 5.131.2195.3775 162.27 KB (166,160 bytes)
 11/14/2002 9:53:44 PM Microsoft Corporation
 c:\winnt\system32\wintrust.dll
 winspool.drv 5.00.2195.5225 111.27 KB (113,936 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\winspool.drv
 msasn1.dll 5.00.2195.4067 51.27 KB (52,496 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\msasn1.dll
 crypt32.dll 5.131.2195.4558 464.27 KB (475,408 bytes)
 11/14/2002 9:53:13 PM Microsoft Corporation
 c:\winnt\system32\crypt32.dll
 winscard.dll 5.00.2134.1 77.27 KB (79,120 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\winscard.dll
 wlnotify.dll 5.00.2195.5377 54.27 KB (55,568 bytes) 11/14/2002
 9:53:44 PM Microsoft Corporation c:\winnt\system32\wlnotify.dll
 csddl.dll 5.00.2195.5434 98.77 KB (101,136 bytes) 11/14/2002
 9:53:13 PM Microsoft Corporation c:\winnt\system32\csddl.dll
 mpr.dll 5.00.2195.3649 53.77 KB (55,056 bytes) 11/14/2002 9:53:24 PM
 Microsoft Corporation c:\winnt\system32\mpr.dll
 shlwapi.dll 5.00.3502.5332 283.27 KB (290,064 bytes) 11/14/2002
 9:53:40 PM Microsoft Corporation c:\winnt\system32\shlwapi.dll
 shell32.dll 5.00.3502.5436 2.26 MB (2,374,416 bytes) 11/14/2002
 9:53:39 PM Microsoft Corporation c:\winnt\system32\shell32.dll
 msgina.dll 5.00.2195.4733 324.77 KB (332,560 bytes) 12/7/1999
 4:00:00 AM Microsoft Corporation c:\winnt\system32\msgina.dll

```

comctl32.dll 5.81 539.27 KB (552,208 bytes) 12/7/1999 4:00:00 AM
Microsoft Corporation c:\winnt\system32\comctl32.dll
setupapi.dll 5.00.2195.5400 553.77 KB (567,056 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\setupapi.dll
winmm.dll 5.00.2161.1 184.77 KB (189,200 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\winmm.dll
winsta.dll 5.00.2195.4655 36.77 KB (37,648 bytes) 11/14/2002
9:53:44 PM Microsoft Corporation c:\winnt\system32\winsta.dll
wsock32.dll 5.00.2195.4874 21.27 KB (21,776 bytes) 11/14/2002
9:53:45 PM Microsoft Corporation c:\winnt\system32\wsock32.dll
dnsapi.dll 5.00.2195.5354 131.27 KB (134,416 bytes) 11/14/2002
9:53:15 PM Microsoft Corporation c:\winnt\system32\dnsapi.dll
wldap32.dll 5.00.2195.5400 158.77 KB (162,576 bytes) 11/14/2002
9:53:44 PM Microsoft Corporation c:\winnt\system32\wldap32.dll
ws2help.dll 5.00.2134.1 17.77 KB (18,192 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\ws2help.dll
ws_32.dll 5.00.2195.4874 66.77 KB (68,368 bytes) 11/14/2002
9:53:44 PM Microsoft Corporation c:\winnt\system32\ws_32.dll
samlib.dll 5.00.2195.4827 49.77 KB (50,960 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\samlib.dll
netrap.dll 5.00.2134.1 11.27 KB (11,536 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\netrap.dll
netapi32.dll 5.00.2195.5427 305.27 KB (312,592 bytes) 11/14/2002
9:53:31 PM Microsoft Corporation c:\winnt\system32\netapi32.dll
profmap.dll 5.00.2181.1 29.27 KB (29,968 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\profmap.dll
secur32.dll 5.00.2195.4587 47.27 KB (48,400 bytes) 11/14/2002
9:53:38 PM Microsoft Corporation c:\winnt\system32\secur32.dll
sfc.dll 5.00.2195.3649 92.11 KB (94,320 bytes) 11/14/2002 9:53:38 PM
Microsoft Corporation c:\winnt\system32\sfc.dll
nddeapi.dll 5.00.2195.4509 15.77 KB (16,144 bytes) 11/14/2002
9:53:31 PM Microsoft Corporation c:\winnt\system32\nddeapi.dll
userenv.dll 5.00.2195.5425 363.77 KB (372,496 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\userenv.dll
user32.dll 5.00.2195.4314 395.77 KB (405,264 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\user32.dll
gdi32.dll 5.00.2195.5252 228.77 KB (234,256 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\gdi32.dll
rpcrt4.dll 5.00.2195.5419 440.27 KB (450,832 bytes) 11/14/2002
9:53:37 PM Microsoft Corporation c:\winnt\system32\rpcrt4.dll
advapi32.dll 5.00.2195.5385 358.77 KB (367,376 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\advapi32.dll
kernel32.dll 5.00.2195.5400 716.77 KB (733,968 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\kernel32.dll
msvcrt.dll 6.10.9359.0 284.05 KB (290,869 bytes) 7/22/2002
1:05:04 PM Microsoft Corporation c:\winnt\system32\msvcrt.dll
winlogon.exe 5.00.2195.5386 174.77 KB (178,960 bytes) 11/14/2002
9:53:44 PM Microsoft Corporation c:\winnt\system32\winlogon.exe
sfcfiles.dll 5.00.2195.5426 951.27 KB (974,096 bytes) 11/14/2002
9:53:38 PM Microsoft Corporation c:\winnt\system32\sfcfiles.dll
ntdll.dll 5.00.2195.5400 479.27 KB (490,768 bytes) 5/4/2001
1:05:02 PM Microsoft Corporation c:\winnt\system32\ntdll.dll
smss.exe 5.00.2195.5382 44.77 KB (45,840 bytes) 12/7/1999
4:00:00 AM Microsoft Corporation c:\winnt\system32\smss.exe

```

[Services]

```

Display Name Name State Start Mode Service Type Path Error
Control Start Name Tag ID

```

```

Alerter Alerter Stopped Manual Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
Application Management AppMgmt Stopped Manual Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
Background Intelligent Transfer Service BITS Stopped Manual Share
Process c:\winnt\system32\svchost.exe -k bitsgroup Normal LocalSystem
0
Computer Browser Browser Running Auto Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
Indexing Service cisvc Stopped Manual Share Process
c:\winnt\system32\cisvc.exe Normal LocalSystem 0
ClipBook ClipSrv Stopped Manual Own Process
c:\winnt\system32\clipsrv.exe Normal LocalSystem 0
Distributed File System Dfs Stopped Manual Own Process
c:\winnt\system32\dfssvc.exe Normal LocalSystem 0
DHCP Client Dhcp Stopped Manual Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
Logical Disk Manager Administrative Service dmadmin Stopped Manual Share
Process c:\winnt\system32\dmadmin.exe /com Normal LocalSystem 0
Logical Disk Manager dmserver Running Auto Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
DNS Client Dnscache Stopped Manual Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
Event Log Eventlog Running Auto Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
COM+ Event System EventSystem Running Manual Share Process
c:\winnt\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Fax Service Fax Stopped Manual Own Process
c:\winnt\system32\faxsvc.exe Normal LocalSystem 0
cLAN Connection Manager GniConMgr Running Auto Own Process
c:\winnt\system32\gnconmgr.exe Normal LocalSystem 0
IIS Admin Service IISADMIN Stopped Auto Share Process
c:\winnt\system32\inet_srv\inetinfo.exe Normal LocalSystem
0
InterSite Messaging IsmServ Stopped Disabled Own Process
c:\winnt\system32\ismserv.exe Normal LocalSystem 0
Kerberos Key Distribution Center kdc Stopped Disabled Share
Process c:\winnt\system32\lsass.exe Normal LocalSystem 0
Server lanmanserver Running Auto Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
Workstation lanmanworkstation Running Auto Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
License Logging Service LicenseService Stopped Manual Own Process
c:\winnt\system32\llssrv.exe Normal LocalSystem 0
TCP/IP NetBIOS Helper Service LmHosts Stopped Manual Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
Messenger Messenger Stopped Manual Share Process
c:\winnt\system32\services.exe Normal LocalSystem 0
NetMeeting Remote Desktop Sharing mnmsrv Running Auto Own Process
c:\winnt\system32\mnmsrv.exe Normal LocalSystem 0
Distributed Transaction Coordinator MSDTC Running Auto Own Process
c:\winnt\system32\msdtc.exe Normal LocalSystem 0
Windows Installer MSIServer Stopped Manual Share Process
c:\winnt\system32\msiexec.exe /v Normal LocalSystem 0
Network DDE NetDDE Stopped Manual Share Process
c:\winnt\system32\netdde.exe Normal LocalSystem 0
Network DDE DSDM NetDDEdsdm Stopped Manual Share Process
c:\winnt\system32\netdde.exe Normal LocalSystem 0

```

```

Net Logon      Netlogon      Stopped Manual Share Process
               c:\winnt\system32\lsass.exe Normal LocalSystem 0
Network Connections Netman Running Manual Share Process
               c:\winnt\system32\svchost.exe -k netsvcs Normal LocalSystem
0
File Replication NtFrs Stopped Manual Own Process
               c:\winnt\system32\ntfrs.exe Ignore LocalSystem 0
NT LM Security Support Provider NtLmSsp Stopped Manual Share Process
               c:\winnt\system32\lsass.exe Normal LocalSystem 0
Removable Storage NtmsSvc Stopped Manual Share Process
               c:\winnt\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Plug and Play PlugPlay Running Auto Share Process
               c:\winnt\system32\services.exe Normal LocalSystem 0
IPSEC Policy Agent PolicyAgent Stopped Manual Share Process
               c:\winnt\system32\lsass.exe Normal LocalSystem 0
Protected Storage ProtectedStorage Running Auto Share Process
               c:\winnt\system32\services.exe Normal LocalSystem 0
Remote Access Auto Connection Manager RasAuto Stopped Manual Share Process
               c:\winnt\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Remote Access Connection Manager RasMan Stopped Manual Share Process
               c:\winnt\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Routing and Remote Access RemoteAccess Stopped Disabled Share
Process c:\winnt\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Remote Registry Service RemoteRegistry Running Auto Own Process
               c:\winnt\system32\regsvc.exe Normal LocalSystem 0
Remote Procedure Call (RPC) Locator RpcLocator Stopped Manual Own
Process c:\winnt\system32\locator.exe Normal LocalSystem 0
Remote Procedure Call (RPC) RpcSs Running Auto Share Process
               c:\winnt\system32\svchost -k rpcss Normal LocalSystem 0
QoS RSVP RSVP Running Manual Own Process
               c:\winnt\system32\rsvp.exe -s Normal LocalSystem 0
Security Accounts Manager SamSs Running Auto Share Process
               c:\winnt\system32\lsass.exe Normal LocalSystem 0
Smart Card Helper SCardDrv Stopped Manual Share Process
               c:\winnt\system32\scardsvr.exe Ignore LocalSystem 0
Smart Card SCardSvr Stopped Manual Share Process
               c:\winnt\system32\scardsvr.exe Ignore LocalSystem 0
Task Scheduler Schedule Running Auto Share Process
               c:\winnt\system32\mstask.exe Normal LocalSystem 0
RunAs Service seclogon Running Auto Share Process
               c:\winnt\system32\services.exe Ignore LocalSystem 0
System Event Notification SENS Running Auto Share Process
               c:\winnt\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Internet Connection Sharing SharedAccess Stopped Manual Share Process
               c:\winnt\system32\svchost.exe -k netsvcs Normal LocalSystem
0
Print Spooler Spooler Stopped Manual Own Process
               c:\winnt\system32\spoolsv.exe Normal LocalSystem 0
Performance Logs and Alerts SysmonLog Stopped Manual Own Process
               c:\winnt\system32\smlogsvc.exe Normal LocalSystem 0
Telephony TapiSrv Stopped Disabled Share Process
               c:\winnt\system32\svchost.exe -k tapisrv Normal LocalSystem
0

```

```

Terminal Services TermService Running Auto Own Process
               c:\winnt\system32\termsrv.exe Normal LocalSystem 0
Telnet TlntSvr Stopped Manual Own Process
               c:\winnt\system32\tlntsvr.exe Normal LocalSystem 0
Distributed Link Tracking Server TrkSvr Stopped Manual Share Process
               c:\winnt\system32\services.exe Normal LocalSystem 0
Distributed Link Tracking Client TrkWks Stopped Manual Share Process
               c:\winnt\system32\services.exe Normal LocalSystem 0
Uninterruptible Power Supply UPS Stopped Manual Own Process
               c:\winnt\system32\ups.exe Normal LocalSystem 0
Utility Manager UtilMan Stopped Manual Own Process
               c:\winnt\system32\utilman.exe Normal LocalSystem 0
Windows Time W32Time Stopped Manual Share Process
               c:\winnt\system32\services.exe Normal LocalSystem 0
World Wide Web Publishing Service W3SVC Stopped Manual Share Process
               c:\winnt\system32\inet_srv\inetinfo.exe Normal LocalSystem
0
Windows Management Instrumentation WinMgmt Running Auto Own Process
               c:\winnt\system32\wbem\winmgmt.exe Ignore LocalSystem 0
Windows Management Instrumentation Driver Extensions Wmi Running Manual
Share Process c:\winnt\system32\services.exe Normal
LocalSystem 0
Automatic Updates wuauerv Stopped Manual Share Process
               c:\winnt\system32\svchost.exe -k wugroup Normal LocalSystem
0

```

[Program Groups]

```

Group Name      Name      User Name
Accessories      Default User:Accessories      Default User
Accessories\Accessibility      Default User:Accessories\Accessibility
Default User
Accessories\Entertainment      Default User:Accessories\Entertainment
Default User
Accessories\System Tools      Default User:Accessories\System Tools
Default User
Startup Default User:Startup      Default User
Accessories      All Users:Accessories      All Users
Accessories\Communications      All Users:Accessories\Communications      All
Users
Accessories\Entertainment      All Users:Accessories\Entertainment      All
Users
Accessories\System Tools      All Users:Accessories\System Tools      All
Users
Administrative Tools      All Users:Administrative Tools      All Users
Microsoft SQL Server      All Users:Microsoft SQL Server      All Users
Startup All Users:Startup      All Users
Accessories      CLIENT1\Administrator:Accessories      CLIENT1\Administrator
Accessories\Accessibility
CLIENT1\Administrator:Accessories\Accessibility
CLIENT1\Administrator
Accessories\Entertainment
CLIENT1\Administrator:Accessories\Entertainment
CLIENT1\Administrator
Accessories\System Tools      CLIENT1\Administrator:Accessories\System
Tools      CLIENT1\Administrator
Startup CLIENT1\Administrator:Startup      CLIENT1\Administrator

```

[Startup Programs]

Program Command User Name Location
 rhostsvr.exe c:\rhost\rhostsvr.exe -d\rhost -crhosthdlr.exe
 CLIENT1\Administrator Startup

[OLE Registration]

Object Local Server
 Sound (OLE2) sndrec32.exe
 Media Clip mplay32.exe
 Video Clip mplay32.exe /avi
 MIDI Sequence mplay32.exe /mid
 Sound Not Available
 Media Clip Not Available
 Image Document "C:\Program Files\Windows NT\Accessories\ImageVue\KodakImg.exe"
 WordPad Document "%ProgramFiles%\Windows NT\Accessories\WORDPAD.EXE"
 Windows Media Services DRM Storage object Not Available
 Bitmap Image mspaint.exe

[Internet Explorer 5]

[Following are sub-categories of this main category]

[Summary]

Item Value
 Version 5.00.3502.1000
 Build 53502.1000
 Product ID 51876-270-3062037-05739
 Application Path C:\Program Files\Internet Explorer
 Language English (United States)
 Active Printer Not Available

Cipher Strength 168-bit
 Content Advisor Disabled
 IEAK Install No

[File Versions]

File	Version	Size	Date	Path	Company
advapi32.dll	5.0.2195.5385	359 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
advpack.dll	5.0.3502.4373	87 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
browsei.c.dll	5.0.3502.4373	35 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
browseui.dll	5.0.3502.4373	791 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
ckcnv.exe	5.0.2189.1	9 KB	12/7/1999 4:00:00 AM	C:\WINNT\system32	Microsoft Corporation
comctl32.dll	5.81.3315.3727	539 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
crypt32.dll	5.131.2195.4558	464 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
enhsg.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
iemigrat.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available

iesetup.dll	5.0.3502.4373	57 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
iexplore.exe	5.0.2920.0	59 KB	12/7/1999 4:00:00 AM	C:\Program Files\Internet Explorer	Microsoft Corporation
imagehlp.dll	5.0.2195.5242	126 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
imgghelp.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
inseng.dll	5.0.3502.4373	72 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
jobexec.dll	5.0.0.147 KB	12/7/1999 4:00:00 AM		C:\WINNT\system32	Microsoft Corporation
jscrip.dll	5.1.0.5907	476 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
jsproxy.dll	5.0.2920.0	13 KB	12/7/1999 4:00:00 AM	C:\WINNT\system32	Microsoft Corporation
msaahtml.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
mshtml.dll	5.0.3502.5390	2284 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
msjava.dll	5.0.3805.0	924 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
msoss.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
msxml.dll	8.0.6730.0	494 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
occache.dll	5.0.3315.3727	86 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
ole32.dll	5.0.2195.5400	968 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
oleaut32.dll	2.40.4518.0	612 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
olepro32.dll	5.0.4518.0	160 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
rsabase.dll	5.0.2195.3839	128 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
rsaenh.dll	5.0.2195.3839	131 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
rsapi32.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
rsasig.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
schannel.dll	5.1.2195.0	139 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
shdoc401.dll	<File Missing>	Not Available	Not Available	Not Available	Not Available
shdocvw.dll	5.0.3502.5400	1079 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
shell32.dll	5.0.3502.5436	2319 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
shlwapi.dll	5.0.3502.5332	283 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
url.dll	5.0.3502.4510	82 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
urlmon.dll	5.0.3502.5400	442 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation
vbscript.dll	5.1.0.7426	428 KB	7/22/2002 12:05:04 PM	C:\WINNT\system32	Microsoft Corporation

```

webcheck.dll 5.0.3315.3727 251 KB 7/22/2002 12:05:04 PM
C:\WINNT\system32 Microsoft Corporation
win.com 5.0.2134.1 24 KB 12/7/1999 4:00:00 AM C:\WINNT\system32
Microsoft Corporation
wininet.dll 5.0.3502.4619 451 KB 7/22/2002 12:05:04 PM
C:\WINNT\system32 Microsoft Corporation
winsock.dll 3.10.0.103 3 KB 12/7/1999 4:00:00 AM
C:\WINNT\system32 Microsoft Corporation
wintrust.dll 5.131.2195.3775 162 KB 7/22/2002 12:05:04 PM
C:\WINNT\system32 Microsoft Corporation
wsock.vxd <File Missing> Not Available Not Available Not Available
Not Available
wsock32.dll 5.0.2195.4874 21 KB 7/22/2002 12:05:04 PM
C:\WINNT\system32 Microsoft Corporation
wsock32n.dll <File Missing> Not Available Not Available Not Available
Not Available

```

[Connectivity]

```

Item Value
Connection Preference Never dial
EnableHttp1.1 1
ProxyHttp1.1 0

```

LAN Settings

```

AutoConfigProxy wininet.dll
AutoProxyDetectMode Enabled
AutoConfigURL
Proxy Disabled
ProxyServer
ProxyOverride

```

[Cache]

[Following are sub-categories of this main category]

[Summary]

```

Item Value
Page Refresh Type Automatic
Temporary Internet Files Folder C:\Documents and
Settings\Administrator\CLIENT\Local Settings\Temporary Internet Files
Total Disk Space 17359 MB
Available Disk Space 14003 MB
Maximum Cache Size 542 MB
Available Cache Size 542 MB

```

[List of Objects]

```

Program File Status CodeBase
No cached object information available

```

[Content]

[Following are sub-categories of this main category]

[Summary]

```

Item Value
Content Advisor Disabled
[Personal Certificates]
Issued To Issued By Validity Signature Algorithm
Administrator Administrator 11/14/2002 to 10/21/2102 sha1RSA

```

[Other People Certificates]

```

Issued To Issued By Validity Signature Algorithm
No other people certificate information available

```

[Publishers]

```

Name
No publisher information available

```

[Security]

```

Zone Security Level
Local intranet Medium-low
Trusted sites Low
Internet Medium
Restricted sites High

```

Windows 2000 IP Configuration Information

(common to 8 clients except for Host Name, Physical Address and IP Address)

Windows 2000 IP Configuration

```

Host Name . . . . . : client1
Primary DNS Suffix . . . . . :
Node Type . . . . . : Broadcast

```

```

IP Routing Enabled. . . . . : No

```

```

WINS Proxy Enabled. . . . . : No

```

Ethernet adapter Admin:

```

Connection-specific DNS Suffix . :
Description . . . . . : Broadcom NetXtreme Gigabit

```

```

Ethernet #2
Physical Address. . . . . : 00-06-5B-8C-9B-80

```

```

DHCP Enabled. . . . . : No

```

```

IP Address. . . . . : 192.168.91.1
Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :

DNS Servers . . . . . :
NetBIOS over Tcpi. . . . . : Disabled

```

Ethernet adapter RTE:

```

Connection-specific DNS Suffix . :
Description . . . . . : Broadcom NetXtreme Gigabit
Ethernet
Physical Address. . . . . : 00-06-5B-8C-9B-81

DHCP Enabled. . . . . : No

IP Address. . . . . : 192.1.1.1

Subnet Mask . . . . . : 255.255.255.0

Default Gateway . . . . . :

DNS Servers . . . . . :
NetBIOS over Tcpi. . . . . : Disabled

```

Volume in drive C has no label.
Volume Serial Number is C0E2-039E

Directory of C:\inetpub\wwwroot

```

11/13/2002  03:34p           101,376 tpcc.dll
             1 File(s)       101,376 bytes
             0 Dir(s)   14,681,464,832 bytes free

```

Volume in drive C has no label.
Volume Serial Number is C0E2-039E

Directory of C:\inetpub\wwwroot

```

11/13/2002  03:24p           92,672 tpcc_com_all.dll
             1 File(s)       92,672 bytes
             0 Dir(s)   14,681,464,832 bytes free

```

Volume in drive C has no label.
Volume Serial Number is C0E2-039E

Directory of C:\inetpub\wwwroot

```

11/13/2002  03:24p           4,608 tpcc_com_ps.dll
             1 File(s)        4,608 bytes
             0 Dir(s)   14,681,464,832 bytes free

```

Component Services Configuration

```

COM+ Component TPCC.AllTxns Settings:
Transactions not supported
Enable object pooling
Minimum pool size 112
Maximum pool size 112
Creation timeout 120,000
Enable object construction
Enable just in time activation
Concurrency required

```

Internet Information Server Registry Parameters

```

\registry\machine\system\currentcontrolset\services\inetinfo
Parameters
ListenBackLog = REG_DWORD 0x00000019
DispatchEntries = REG_MULTI_SZ "LDAPsvc"
PoolThreadLimit = REG_DWORD 0x000000c8
ThreadTimeout = REG_DWORD 0x00015180
BandwidthLevel = REG_DWORD 0xffffffff
DisableMemoryCache = REG_DWORD 0x00000001
MemoryCacheSize = REG_DWORD 0x00000000
ObjectCacheTTL = REG_DWORD 0xffffffff

Performance
Library = infoctrs.dll
Open = OpenINFOPerformanceData
Close = CloseINFOPerformanceData
Collect = CollectINFOPerformanceData
WbemAdapFileTime = REG_BINARY 0x00000008 0x1160d800 0x01c231bb
WbemAdapFileSize = REG_DWORD 0x00002510
WbemAdapStatus = REG_DWORD 0x00000000
Last Counter = REG_DWORD 0x00000b7c
Last Help = REG_DWORD 0x00000b7d
First Counter = REG_DWORD 0x00000b3c
First Help = REG_DWORD 0x00000b3d
Library Validation Code = REG_BINARY 0x00000010 0x4d3ef59a
0x01c28c6b 0x00002510 0x00000000

```

MSSQL Server Registry Parameters

```

\registry\machine\software\microsoft\mssqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB, via: MV-LE030P1, 1421, 0

\registry\machine\software\microsoft\mssqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB, via: MV-LE030P1, 1422, 0

\registry\machine\software\microsoft\mssqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB, via: MV-LE030P1, 1423, 0

\registry\machine\software\microsoft\mssqlserver\client\connectto
DSQUERY = DBMSSOCN

```

```

DBSERVER = DBNETLIB,via:MV-LE030P1,1424,0
\registry\machine\software\microsoft\mssqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:MV-LE030P1,1425,0
\registry\machine\software\microsoft\mssqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:MV-LE030P1,1426,0
\registry\machine\software\microsoft\mssqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:MV-LE030P1,1427,0
\registry\machine\software\microsoft\mssqlserver\client\connectto
DSQUERY = DBMSSOCN
DBSERVER = DBNETLIB,via:MV-LE030P1,1428,0

```

Start World Wide Web Server Registry Parameters

```

\registry\machine\system\currentcontrolset\services\w3svc
Type = REG_DWORD 0x00000020
Start = REG_DWORD 0x00000003
ErrorControl = REG_DWORD 0x00000001
ImagePath = REG_EXPAND_SZ C:\WINNT\System32\inetrv\inetinfo.exe
DisplayName = World Wide Web Publishing Service
DependOnService = REG_MULTI_SZ "IISADMIN"
DependOnGroup = REG_MULTI_SZ
ObjectName = LocalSystem
Description = Provides Web connectivity and administration through the
Internet Information Services snap-in.
ASP
NOTE = This is for backward compatibility only.
Parameters
Parameters
MajorVersion = REG_DWORD 0x00000005
MinorVersion = REG_DWORD 0x00000000
InstallPath = C:\WINNT\System32\inetrv
CertMapList = C:\WINNT\System32\inetrv\iisrmap.dll
AccessDeniedMessage = Error: Access is Denied.
Filter DLLs =
LogFileDirectory = C:\WINNT\System32\LogFiles
AcceptExOutstanding = REG_DWORD 0x00000028
ADCLaunch
AdvancedDataFactory
RDSServer.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 = w3ctrs.dll
Open = OpenW3PerformanceData
Close = CloseW3PerformanceData
Collect = CollectW3PerformanceData
WbemAdapFileTime = REG_BINARY 0x00000008 0x1160d800 0x01c231bb
WbemAdapFileSize = REG_DWORD 0x00001d10
WbemAdapStatus = REG_DWORD 0x00000000
Last Counter = REG_DWORD 0x000008e6
Last Help = REG_DWORD 0x000008e7
First Counter = REG_DWORD 0x00000844
First Help = REG_DWORD 0x00000845
Library Validation Code = REG_BINARY 0x00000010 0xc18a727c
0x01c026d2 0x00003d10 0x00000000
Security [17 1]
Security = REG_BINARY 0x000000b8 0x80140001 0x000000a0 0x000000ac
0x00000014 0x00000030 0x001c0002 0x00000001 0x00148002 0x000f01ff
0x00000101 0x01000000 0x00000000 0x00700002 0x00000004 0x00180000
0x000201fd 0x00000101 0x05000000 \
0x00000012 0x006f0074 0x001c0000 0x000f01ff 0x00000201
0x05000000 0x00000020 0x00000220 0x00730072 0x00180000 0x0002018d
0x00000101 0x05000000 0x0000000b 0x00000220 0x001c0000 0x000201fd
0x00000201 0x05000000 0x00000020 \
0x00000223 0x00730072 0x00000101 0x05000000 0x00000012
0x00000101 0x05000000 0x00000012
Enum
0 = Root\LEGACY_W3SVC\0000
Count = REG_DWORD 0x00000001
NextInstance = REG_DWORD 0x00000001

```

TPCC Application Settings

```

\registry\machine\software\unisis
TPCC
MAXTERMS = 60000
DELIVERYTHREADS = 15
SERVERNAME = DBSERVER
DATABASE = tpcc

```


Appendix D - RTE Code

Admin Environment

```
if '%1'==' ' goto usage
if '%2'==' ' goto usage
if '%3'==' ' goto usage

:paramok

set WEBCHECKWIDS=1
set WEBDIAGLEVEL=4
set WEBEVENTLOG=0
set WEBEVENTHOST=
set WEBCHECKLEVEL=2

c:\webdriver\webadmin.exe -cweb%1.cfg -m%2 -d%3 -s160
if %ERRORLEVEL% NEQ 0 pause

goto end

:usage
@ECHO You must supply the following parameters:
@ECHO "webnnn.cmd <cfg file suffix> <min driver #> <max driver #>"
pause

:end
```

Profiles used for Performance Run

WebAdmin.cfg

```
//
// Common Driver Configuration
//
INITBASEPORT 4300
INITSYNCMAX 4
INITPAUSE 1
INITRSCALE 1200
INITTSCALE 100
INITRWID 1,18760
INITFIXEDWID 1
INITCCLAST 208
INITCCID 208
INITCITEMID 208
//
//Configuration Driver 1
//
1 INITIPADDR 192.168.93.1
1 INITIISADDR 192.1.1.1
```

```
1 INITIISPORT 80
1 INITBROWSERS 1180
1 INITMYWID 1,118
//
//Configuration Driver 2
//
2 INITIPADDR 192.168.93.1
2 INITIISADDR 192.1.1.1
2 INITIISPORT 80
2 INITBROWSERS 1180
2 INITMYWID 119,236
//
//Configuration Driver 3
//
3 INITIPADDR 192.168.93.1
3 INITIISADDR 192.1.1.1
3 INITIISPORT 80
3 INITBROWSERS 1180
3 INITMYWID 237,354
//
//Configuration Driver 4
//
4 INITIPADDR 192.168.93.1
4 INITIISADDR 192.1.1.1
4 INITIISPORT 80
4 INITBROWSERS 1180
4 INITMYWID 355,472
//
//Configuration Driver 5
//
5 INITIPADDR 192.168.93.1
5 INITIISADDR 192.1.1.1
5 INITIISPORT 80
5 INITBROWSERS 1180
5 INITMYWID 473,590
//
//Configuration Driver 6
//
6 INITIPADDR 192.168.93.1
6 INITIISADDR 192.1.1.1
6 INITIISPORT 80
6 INITBROWSERS 1180
6 INITMYWID 591,708
//
//Configuration Driver 7
//
7 INITIPADDR 192.168.93.1
7 INITIISADDR 192.1.1.1
7 INITIISPORT 80
7 INITBROWSERS 1180
7 INITMYWID 709,826
//
//Configuration Driver 8
//
```

```

8 INITIPADDR 192.168.93.1
8 INITIISADDR 192.1.1.1
8 INITIISPORT 80
8 INITBROWSERS 1180
8 INITMYWID 827,944
//
//Configuration Driver 9
//
9 INITIPADDR 192.168.93.1
9 INITIISADDR 192.1.1.1
9 INITIISPORT 80
9 INITBROWSERS 1180
9 INITMYWID 945,1062
//
//Configuration Driver 10
//
10 INITIPADDR 192.168.93.1
10 INITIISADDR 192.1.1.1
10 INITIISPORT 80
10 INITBROWSERS 1180
10 INITMYWID 1063,1180
//
//Configuration Driver 11
//
11 INITIPADDR 192.168.93.1
11 INITIISADDR 192.1.1.1
11 INITIISPORT 80
11 INITBROWSERS 1180
11 INITMYWID 1181,1298
//
//Configuration Driver 12
//
12 INITIPADDR 192.168.93.1
12 INITIISADDR 192.1.1.1
12 INITIISPORT 80
12 INITBROWSERS 1180
12 INITMYWID 1299,1416
//
//Configuration Driver 13
//
13 INITIPADDR 192.168.93.1
13 INITIISADDR 192.1.1.1
13 INITIISPORT 80
13 INITBROWSERS 1180
13 INITMYWID 1417,1534
//
//Configuration Driver 14
//
14 INITIPADDR 192.168.93.1
14 INITIISADDR 192.1.1.1
14 INITIISPORT 80
14 INITBROWSERS 1180
14 INITMYWID 1535,1652
//
//Configuration Driver 15
//
15 INITIPADDR 192.168.93.1
15 INITIISADDR 192.1.1.1
15 INITIISPORT 80

```

```

15 INITBROWSERS 1180
15 INITMYWID 1653,1770
//
//Configuration Driver 16
//
16 INITIPADDR 192.168.93.1
16 INITIISADDR 192.1.1.1
16 INITIISPORT 80
16 INITBROWSERS 1180
16 INITMYWID 1771,1888
//
//Configuration Driver 17
//
17 INITIPADDR 192.168.93.1
17 INITIISADDR 192.1.1.1
17 INITIISPORT 80
17 INITBROWSERS 1180
17 INITMYWID 1889,2006
//
//Configuration Driver 18
//
18 INITIPADDR 192.168.93.1
18 INITIISADDR 192.1.1.1
18 INITIISPORT 80
18 INITBROWSERS 1180
18 INITMYWID 2007,2124
//
//Configuration Driver 19
//
19 INITIPADDR 192.168.93.1
19 INITIISADDR 192.1.1.1
19 INITIISPORT 80
19 INITBROWSERS 1180
19 INITMYWID 2125,2242
//
//Configuration Driver 20
//
20 INITIPADDR 192.168.93.2
20 INITIISADDR 192.2.1.1
20 INITIISPORT 80
20 INITBROWSERS 1180
20 INITMYWID 2243,2360
//
//Configuration Driver 21
//
21 INITIPADDR 192.168.93.2
21 INITIISADDR 192.2.1.1
21 INITIISPORT 80
21 INITBROWSERS 1180
21 INITMYWID 2361,2478
//
//Configuration Driver 22
//
22 INITIPADDR 192.168.93.2
22 INITIISADDR 192.2.1.1
22 INITIISPORT 80
22 INITBROWSERS 1180
22 INITMYWID 2479,2596
//

```

```

//Configuration Driver 23
//
23 INITIPADDR 192.168.93.2
23 INITIISADDR 192.2.1.1
23 INITIISPORT 80
23 INITBROWSERS 1180
23 INITMYWID 2597,2714
//
//Configuration Driver 24
//
24 INITIPADDR 192.168.93.2
24 INITIISADDR 192.2.1.1
24 INITIISPORT 80
24 INITBROWSERS 1180
24 INITMYWID 2715,2832
//
//Configuration Driver 25
//
25 INITIPADDR 192.168.93.2
25 INITIISADDR 192.2.1.1
25 INITIISPORT 80
25 INITBROWSERS 1180
25 INITMYWID 2833,2950
//
//Configuration Driver 26
//
26 INITIPADDR 192.168.93.2
26 INITIISADDR 192.2.1.1
26 INITIISPORT 80
26 INITBROWSERS 1180
26 INITMYWID 2951,3068
//
//Configuration Driver 27
//
27 INITIPADDR 192.168.93.2
27 INITIISADDR 192.2.1.1
27 INITIISPORT 80
27 INITBROWSERS 1180
27 INITMYWID 3069,3186
//
//Configuration Driver 28
//
28 INITIPADDR 192.168.93.2
28 INITIISADDR 192.2.1.1
28 INITIISPORT 80
28 INITBROWSERS 1180
28 INITMYWID 3187,3304
//
//Configuration Driver 29
//
29 INITIPADDR 192.168.93.2
29 INITIISADDR 192.2.1.1
29 INITIISPORT 80
29 INITBROWSERS 1180
29 INITMYWID 3305,3422
//
//Configuration Driver 30
//
30 INITIPADDR 192.168.93.2

```

```

30 INITIISADDR 192.2.1.1
30 INITIISPORT 80
30 INITBROWSERS 1180
30 INITMYWID 3423,3540
//
//Configuration Driver 31
//
31 INITIPADDR 192.168.93.2
31 INITIISADDR 192.2.1.1
31 INITIISPORT 80
31 INITBROWSERS 1180
31 INITMYWID 3541,3658
//
//Configuration Driver 32
//
32 INITIPADDR 192.168.93.2
32 INITIISADDR 192.2.1.1
32 INITIISPORT 80
32 INITBROWSERS 1180
32 INITMYWID 3659,3776
//
//Configuration Driver 33
//
33 INITIPADDR 192.168.93.2
33 INITIISADDR 192.2.1.1
33 INITIISPORT 80
33 INITBROWSERS 1180
33 INITMYWID 3777,3894
//
//Configuration Driver 34
//
34 INITIPADDR 192.168.93.2
34 INITIISADDR 192.2.1.1
34 INITIISPORT 80
34 INITBROWSERS 1180
34 INITMYWID 3895,4012
//
//Configuration Driver 35
//
35 INITIPADDR 192.168.93.2
35 INITIISADDR 192.2.1.1
35 INITIISPORT 80
35 INITBROWSERS 1180
35 INITMYWID 4013,4130
//
//Configuration Driver 36
//
36 INITIPADDR 192.168.93.2
36 INITIISADDR 192.2.1.1
36 INITIISPORT 80
36 INITBROWSERS 1180
36 INITMYWID 4131,4248
//
//Configuration Driver 37
//
37 INITIPADDR 192.168.93.2
37 INITIISADDR 192.2.1.1
37 INITIISPORT 80
37 INITBROWSERS 1180

```

```
37 INITMYWID 4249,4366
//
//Configuration Driver 38
//
38 INITIPADDR 192.168.93.2
38 INITIISADDR 192.2.1.1
38 INITIISPORT 80
38 INITBROWSERS 1180
38 INITMYWID 4367,4484
//
//Configuration Driver 39
//
39 INITIPADDR 192.168.93.2
39 INITIISADDR 192.2.1.1
39 INITIISPORT 80
39 INITBROWSERS 1180
39 INITMYWID 4485,4602
//
//Configuration Driver 40
//
40 INITIPADDR 192.168.93.3
40 INITIISADDR 192.3.1.1
40 INITIISPORT 80
40 INITBROWSERS 1180
40 INITMYWID 4603,4720
//
//Configuration Driver 41
//
41 INITIPADDR 192.168.93.3
41 INITIISADDR 192.3.1.1
41 INITIISPORT 80
41 INITBROWSERS 1180
41 INITMYWID 4721,4838
//
//Configuration Driver 42
//
42 INITIPADDR 192.168.93.3
42 INITIISADDR 192.3.1.1
42 INITIISPORT 80
42 INITBROWSERS 1180
42 INITMYWID 4839,4956
//
//Configuration Driver 43
//
43 INITIPADDR 192.168.93.3
43 INITIISADDR 192.3.1.1
43 INITIISPORT 80
43 INITBROWSERS 1180
43 INITMYWID 4957,5074
//
//Configuration Driver 44
//
44 INITIPADDR 192.168.93.3
44 INITIISADDR 192.3.1.1
44 INITIISPORT 80
44 INITBROWSERS 1180
44 INITMYWID 5075,5192
//
//Configuration Driver 45
```

```
//
45 INITIPADDR 192.168.93.3
45 INITIISADDR 192.3.1.1
45 INITIISPORT 80
45 INITBROWSERS 1180
45 INITMYWID 5193,5310
//
//Configuration Driver 46
//
46 INITIPADDR 192.168.93.3
46 INITIISADDR 192.3.1.1
46 INITIISPORT 80
46 INITBROWSERS 1180
46 INITMYWID 5311,5428
//
//Configuration Driver 47
//
47 INITIPADDR 192.168.93.3
47 INITIISADDR 192.3.1.1
47 INITIISPORT 80
47 INITBROWSERS 1180
47 INITMYWID 5429,5546
//
//Configuration Driver 48
//
48 INITIPADDR 192.168.93.3
48 INITIISADDR 192.3.1.1
48 INITIISPORT 80
48 INITBROWSERS 1180
48 INITMYWID 5547,5664
//
//Configuration Driver 49
//
49 INITIPADDR 192.168.93.3
49 INITIISADDR 192.3.1.1
49 INITIISPORT 80
49 INITBROWSERS 1180
49 INITMYWID 5665,5782
//
//Configuration Driver 50
//
50 INITIPADDR 192.168.93.3
50 INITIISADDR 192.3.1.1
50 INITIISPORT 80
50 INITBROWSERS 1180
50 INITMYWID 5783,5900
//
//Configuration Driver 51
//
51 INITIPADDR 192.168.93.3
51 INITIISADDR 192.3.1.1
51 INITIISPORT 80
51 INITBROWSERS 1180
51 INITMYWID 5901,6018
//
//Configuration Driver 52
//
52 INITIPADDR 192.168.93.3
52 INITIISADDR 192.3.1.1
```

```

52 INITIISPORT 80
52 INITBROWSERS 1180
52 INITMYWID 6019,6136
//
//Configuration Driver 53
//
53 INITIPADDR 192.168.93.3
53 INITIISADDR 192.3.1.1
53 INITIISPORT 80
53 INITBROWSERS 1180
53 INITMYWID 6137,6254
//
//Configuration Driver 54
//
54 INITIPADDR 192.168.93.3
54 INITIISADDR 192.3.1.1
54 INITIISPORT 80
54 INITBROWSERS 1180
54 INITMYWID 6255,6372
//
//Configuration Driver 55
//
55 INITIPADDR 192.168.93.3
55 INITIISADDR 192.3.1.1
55 INITIISPORT 80
55 INITBROWSERS 1180
55 INITMYWID 6373,6490
//
//Configuration Driver 56
//
56 INITIPADDR 192.168.93.3
56 INITIISADDR 192.3.1.1
56 INITIISPORT 80
56 INITBROWSERS 1180
56 INITMYWID 6491,6608
//
//Configuration Driver 57
//
57 INITIPADDR 192.168.93.3
57 INITIISADDR 192.3.1.1
57 INITIISPORT 80
57 INITBROWSERS 1180
57 INITMYWID 6609,6726
//
//Configuration Driver 58
//
58 INITIPADDR 192.168.93.3
58 INITIISADDR 192.3.1.1
58 INITIISPORT 80
58 INITBROWSERS 1180
58 INITMYWID 6727,6844
//
//Configuration Driver 59
//
59 INITIPADDR 192.168.93.3
59 INITIISADDR 192.3.1.1
59 INITIISPORT 80
59 INITBROWSERS 1180
59 INITMYWID 6845,6962

```

```

//
//Configuration Driver 60
//
60 INITIPADDR 192.168.93.4
60 INITIISADDR 192.4.1.1
60 INITIISPORT 80
60 INITBROWSERS 1180
60 INITMYWID 6963,7080
//
//Configuration Driver 61
//
61 INITIPADDR 192.168.93.4
61 INITIISADDR 192.4.1.1
61 INITIISPORT 80
61 INITBROWSERS 1180
61 INITMYWID 7081,7198
//
//Configuration Driver 62
//
62 INITIPADDR 192.168.93.4
62 INITIISADDR 192.4.1.1
62 INITIISPORT 80
62 INITBROWSERS 1180
62 INITMYWID 7199,7316
//
//Configuration Driver 63
//
63 INITIPADDR 192.168.93.4
63 INITIISADDR 192.4.1.1
63 INITIISPORT 80
63 INITBROWSERS 1180
63 INITMYWID 7317,7434
//
//Configuration Driver 64
//
64 INITIPADDR 192.168.93.4
64 INITIISADDR 192.4.1.1
64 INITIISPORT 80
64 INITBROWSERS 1180
64 INITMYWID 7435,7552
//
//Configuration Driver 65
//
65 INITIPADDR 192.168.93.4
65 INITIISADDR 192.4.1.1
65 INITIISPORT 80
65 INITBROWSERS 1180
65 INITMYWID 7553,7670
//
//Configuration Driver 66
//
66 INITIPADDR 192.168.93.4
66 INITIISADDR 192.4.1.1
66 INITIISPORT 80
66 INITBROWSERS 1180
66 INITMYWID 7671,7788
//
//Configuration Driver 67
//

```

```
67 INITIPADDR 192.168.93.4
67 INITIISADDR 192.4.1.1
67 INITIISPORT 80
67 INITBROWSERS 1180
67 INITMYWID 7789,7906
//
//Configuration Driver 68
//
68 INITIPADDR 192.168.93.4
68 INITIISADDR 192.4.1.1
68 INITIISPORT 80
68 INITBROWSERS 1180
68 INITMYWID 7907,8024
//
//Configuration Driver 69
//
69 INITIPADDR 192.168.93.4
69 INITIISADDR 192.4.1.1
69 INITIISPORT 80
69 INITBROWSERS 1180
69 INITMYWID 8025,8142
//
//Configuration Driver 70
//
70 INITIPADDR 192.168.93.4
70 INITIISADDR 192.4.1.1
70 INITIISPORT 80
70 INITBROWSERS 1180
70 INITMYWID 8143,8260
//
//Configuration Driver 71
//
71 INITIPADDR 192.168.93.4
71 INITIISADDR 192.4.1.1
71 INITIISPORT 80
71 INITBROWSERS 1180
71 INITMYWID 8261,8378
//
//Configuration Driver 72
//
72 INITIPADDR 192.168.93.4
72 INITIISADDR 192.4.1.1
72 INITIISPORT 80
72 INITBROWSERS 1180
72 INITMYWID 8379,8496
//
//Configuration Driver 73
//
73 INITIPADDR 192.168.93.4
73 INITIISADDR 192.4.1.1
73 INITIISPORT 80
73 INITBROWSERS 1180
73 INITMYWID 8497,8614
//
//Configuration Driver 74
//
74 INITIPADDR 192.168.93.4
74 INITIISADDR 192.4.1.1
74 INITIISPORT 80
```

```
74 INITBROWSERS 1180
74 INITMYWID 8615,8732
//
//Configuration Driver 75
//
75 INITIPADDR 192.168.93.4
75 INITIISADDR 192.4.1.1
75 INITIISPORT 80
75 INITBROWSERS 1180
75 INITMYWID 8733,8850
//
//Configuration Driver 76
//
76 INITIPADDR 192.168.93.4
76 INITIISADDR 192.4.1.1
76 INITIISPORT 80
76 INITBROWSERS 1180
76 INITMYWID 8851,8968
//
//Configuration Driver 77
//
77 INITIPADDR 192.168.93.4
77 INITIISADDR 192.4.1.1
77 INITIISPORT 80
77 INITBROWSERS 1180
77 INITMYWID 8969,9086
//
//Configuration Driver 78
//
78 INITIPADDR 192.168.93.4
78 INITIISADDR 192.4.1.1
78 INITIISPORT 80
78 INITBROWSERS 1180
78 INITMYWID 9087,9204
//
//Configuration Driver 79
//
79 INITIPADDR 192.168.93.4
79 INITIISADDR 192.4.1.1
79 INITIISPORT 80
79 INITBROWSERS 1180
79 INITMYWID 9205,9322
//
//Configuration Driver 80
//
80 INITIPADDR 192.168.93.5
80 INITIISADDR 192.5.1.1
80 INITIISPORT 80
80 INITBROWSERS 1180
80 INITMYWID 9323,9440
//
//Configuration Driver 81
//
81 INITIPADDR 192.168.93.5
81 INITIISADDR 192.5.1.1
81 INITIISPORT 80
81 INITBROWSERS 1180
81 INITMYWID 9441,9558
//
```

```
//Configuration Driver 82
//
82 INITIPADDR 192.168.93.5
82 INITIISADDR 192.5.1.1
82 INITIISPORT 80
82 INITBROWSERS 1180
82 INITMYWID 9559,9676
//
//Configuration Driver 83
//
83 INITIPADDR 192.168.93.5
83 INITIISADDR 192.5.1.1
83 INITIISPORT 80
83 INITBROWSERS 1180
83 INITMYWID 9677,9794
//
//Configuration Driver 84
//
84 INITIPADDR 192.168.93.5
84 INITIISADDR 192.5.1.1
84 INITIISPORT 80
84 INITBROWSERS 1180
84 INITMYWID 9795,9912
//
//Configuration Driver 85
//
85 INITIPADDR 192.168.93.5
85 INITIISADDR 192.5.1.1
85 INITIISPORT 80
85 INITBROWSERS 1180
85 INITMYWID 9913,10030
//
//Configuration Driver 86
//
86 INITIPADDR 192.168.93.5
86 INITIISADDR 192.5.1.1
86 INITIISPORT 80
86 INITBROWSERS 1180
86 INITMYWID 10031,10148
//
//Configuration Driver 87
//
87 INITIPADDR 192.168.93.5
87 INITIISADDR 192.5.1.1
87 INITIISPORT 80
87 INITBROWSERS 1180
87 INITMYWID 10149,10266
//
//Configuration Driver 88
//
88 INITIPADDR 192.168.93.5
88 INITIISADDR 192.5.1.1
88 INITIISPORT 80
88 INITBROWSERS 1180
88 INITMYWID 10267,10384
//
//Configuration Driver 89
//
89 INITIPADDR 192.168.93.5
```

```
89 INITIISADDR 192.5.1.1
89 INITIISPORT 80
89 INITBROWSERS 1180
89 INITMYWID 10385,10502
//
//Configuration Driver 90
//
90 INITIPADDR 192.168.93.5
90 INITIISADDR 192.5.1.1
90 INITIISPORT 80
90 INITBROWSERS 1180
90 INITMYWID 10503,10620
//
//Configuration Driver 91
//
91 INITIPADDR 192.168.93.5
91 INITIISADDR 192.5.1.1
91 INITIISPORT 80
91 INITBROWSERS 1180
91 INITMYWID 10621,10738
//
//Configuration Driver 92
//
92 INITIPADDR 192.168.93.5
92 INITIISADDR 192.5.1.1
92 INITIISPORT 80
92 INITBROWSERS 1180
92 INITMYWID 10739,10856
//
//Configuration Driver 93
//
93 INITIPADDR 192.168.93.5
93 INITIISADDR 192.5.1.1
93 INITIISPORT 80
93 INITBROWSERS 1180
93 INITMYWID 10857,10974
//
//Configuration Driver 94
//
94 INITIPADDR 192.168.93.5
94 INITIISADDR 192.5.1.1
94 INITIISPORT 80
94 INITBROWSERS 1180
94 INITMYWID 10975,11092
//
//Configuration Driver 95
//
95 INITIPADDR 192.168.93.5
95 INITIISADDR 192.5.1.1
95 INITIISPORT 80
95 INITBROWSERS 1180
95 INITMYWID 11093,11210
//
//Configuration Driver 96
//
96 INITIPADDR 192.168.93.5
96 INITIISADDR 192.5.1.1
96 INITIISPORT 80
96 INITBROWSERS 1180
```

```
96 INITMYWID 11211,11328
//
//Configuration Driver 97
//
97 INITIPADDR 192.168.93.5
97 INITIISADDR 192.5.1.1
97 INITIISPORT 80
97 INITBROWSERS 1180
97 INITMYWID 11329,11446
//
//Configuration Driver 98
//
98 INITIPADDR 192.168.93.5
98 INITIISADDR 192.5.1.1
98 INITIISPORT 80
98 INITBROWSERS 1180
98 INITMYWID 11447,11564
//
//Configuration Driver 99
//
99 INITIPADDR 192.168.93.5
99 INITIISADDR 192.5.1.1
99 INITIISPORT 80
99 INITBROWSERS 1180
99 INITMYWID 11565,11682
//
//Configuration Driver 100
//
100 INITIPADDR 192.168.93.6
100 INITIISADDR 192.6.1.1
100 INITIISPORT 80
100 INITBROWSERS 1180
100 INITMYWID 11683,11800
//
//Configuration Driver 101
//
101 INITIPADDR 192.168.93.6
101 INITIISADDR 192.6.1.1
101 INITIISPORT 80
101 INITBROWSERS 1180
101 INITMYWID 11801,11918
//
//Configuration Driver 102
//
102 INITIPADDR 192.168.93.6
102 INITIISADDR 192.6.1.1
102 INITIISPORT 80
102 INITBROWSERS 1180
102 INITMYWID 11919,12036
//
//Configuration Driver 103
//
103 INITIPADDR 192.168.93.6
103 INITIISADDR 192.6.1.1
103 INITIISPORT 80
103 INITBROWSERS 1180
103 INITMYWID 12037,12154
//
//Configuration Driver 104
```

```
//
104 INITIPADDR 192.168.93.6
104 INITIISADDR 192.6.1.1
104 INITIISPORT 80
104 INITBROWSERS 1180
104 INITMYWID 12155,12272
//
//Configuration Driver 105
//
105 INITIPADDR 192.168.93.6
105 INITIISADDR 192.6.1.1
105 INITIISPORT 80
105 INITBROWSERS 1180
105 INITMYWID 12273,12390
//
//Configuration Driver 106
//
106 INITIPADDR 192.168.93.6
106 INITIISADDR 192.6.1.1
106 INITIISPORT 80
106 INITBROWSERS 1180
106 INITMYWID 12391,12508
//
//Configuration Driver 107
//
107 INITIPADDR 192.168.93.6
107 INITIISADDR 192.6.1.1
107 INITIISPORT 80
107 INITBROWSERS 1180
107 INITMYWID 12509,12626
//
//Configuration Driver 108
//
108 INITIPADDR 192.168.93.6
108 INITIISADDR 192.6.1.1
108 INITIISPORT 80
108 INITBROWSERS 1180
108 INITMYWID 12627,12744
//
//Configuration Driver 109
//
109 INITIPADDR 192.168.93.6
109 INITIISADDR 192.6.1.1
109 INITIISPORT 80
109 INITBROWSERS 1180
109 INITMYWID 12745,12862
//
//Configuration Driver 110
//
110 INITIPADDR 192.168.93.6
110 INITIISADDR 192.6.1.1
110 INITIISPORT 80
110 INITBROWSERS 1180
110 INITMYWID 12863,12980
//
//Configuration Driver 111
//
111 INITIPADDR 192.168.93.6
111 INITIISADDR 192.6.1.1
```



```
111 INITIISPORT 80
111 INITBROWSERS 1180
111 INITMYWID 12981,13098
//
//Configuration Driver 112
//
112 INITIPADDR 192.168.93.6
112 INITIISADDR 192.6.1.1
112 INITIISPORT 80
112 INITBROWSERS 1180
112 INITMYWID 13099,13216
//
//Configuration Driver 113
//
113 INITIPADDR 192.168.93.6
113 INITIISADDR 192.6.1.1
113 INITIISPORT 80
113 INITBROWSERS 1180
113 INITMYWID 13217,13334
//
//Configuration Driver 114
//
114 INITIPADDR 192.168.93.6
114 INITIISADDR 192.6.1.1
114 INITIISPORT 80
114 INITBROWSERS 1180
114 INITMYWID 13335,13452
//
//Configuration Driver 115
//
115 INITIPADDR 192.168.93.6
115 INITIISADDR 192.6.1.1
115 INITIISPORT 80
115 INITBROWSERS 1180
115 INITMYWID 13453,13570
//
//Configuration Driver 116
//
116 INITIPADDR 192.168.93.6
116 INITIISADDR 192.6.1.1
116 INITIISPORT 80
116 INITBROWSERS 1180
116 INITMYWID 13571,13688
//
//Configuration Driver 117
//
117 INITIPADDR 192.168.93.6
117 INITIISADDR 192.6.1.1
117 INITIISPORT 80
117 INITBROWSERS 1180
117 INITMYWID 13689,13806
//
//Configuration Driver 118
//
118 INITIPADDR 192.168.93.6
118 INITIISADDR 192.6.1.1
118 INITIISPORT 80
118 INITBROWSERS 1180
118 INITMYWID 13807,13924
```

```
//
//Configuration Driver 119
//
119 INITIPADDR 192.168.93.6
119 INITIISADDR 192.6.1.1
119 INITIISPORT 80
119 INITBROWSERS 1180
119 INITMYWID 13925,14042
//
//Configuration Driver 120
//
120 INITIPADDR 192.168.93.7
120 INITIISADDR 192.7.1.1
120 INITIISPORT 80
120 INITBROWSERS 1180
120 INITMYWID 14043,14160
//
//Configuration Driver 121
//
121 INITIPADDR 192.168.93.7
121 INITIISADDR 192.7.1.1
121 INITIISPORT 80
121 INITBROWSERS 1180
121 INITMYWID 14161,14278
//
//Configuration Driver 122
//
122 INITIPADDR 192.168.93.7
122 INITIISADDR 192.7.1.1
122 INITIISPORT 80
122 INITBROWSERS 1180
122 INITMYWID 14279,14396
//
//Configuration Driver 123
//
123 INITIPADDR 192.168.93.7
123 INITIISADDR 192.7.1.1
123 INITIISPORT 80
123 INITBROWSERS 1180
123 INITMYWID 14397,14514
//
//Configuration Driver 124
//
124 INITIPADDR 192.168.93.7
124 INITIISADDR 192.7.1.1
124 INITIISPORT 80
124 INITBROWSERS 1180
124 INITMYWID 14515,14632
//
//Configuration Driver 125
//
125 INITIPADDR 192.168.93.7
125 INITIISADDR 192.7.1.1
125 INITIISPORT 80
125 INITBROWSERS 1180
125 INITMYWID 14633,14750
//
//Configuration Driver 126
//
```

```
126 INITIPADDR 192.168.93.7
126 INITIISADDR 192.7.1.1
126 INITIISPORT 80
126 INITBROWSERS 1180
126 INITMYWID 14751,14868
//
//Configuration Driver 127
//
127 INITIPADDR 192.168.93.7
127 INITIISADDR 192.7.1.1
127 INITIISPORT 80
127 INITBROWSERS 1180
127 INITMYWID 14869,14986
//
//Configuration Driver 128
//
128 INITIPADDR 192.168.93.7
128 INITIISADDR 192.7.1.1
128 INITIISPORT 80
128 INITBROWSERS 1180
128 INITMYWID 14987,15104
//
//Configuration Driver 129
//
129 INITIPADDR 192.168.93.7
129 INITIISADDR 192.7.1.1
129 INITIISPORT 80
129 INITBROWSERS 1180
129 INITMYWID 15105,15222
//
//Configuration Driver 130
//
130 INITIPADDR 192.168.93.7
130 INITIISADDR 192.7.1.1
130 INITIISPORT 80
130 INITBROWSERS 1180
130 INITMYWID 15223,15340
//
//Configuration Driver 131
//
131 INITIPADDR 192.168.93.7
131 INITIISADDR 192.7.1.1
131 INITIISPORT 80
131 INITBROWSERS 1180
131 INITMYWID 15341,15458
//
//Configuration Driver 132
//
132 INITIPADDR 192.168.93.7
132 INITIISADDR 192.7.1.1
132 INITIISPORT 80
132 INITBROWSERS 1180
132 INITMYWID 15459,15576
//
//Configuration Driver 133
//
133 INITIPADDR 192.168.93.7
133 INITIISADDR 192.7.1.1
133 INITIISPORT 80
```

```
133 INITBROWSERS 1180
133 INITMYWID 15577,15694
//
//Configuration Driver 134
//
134 INITIPADDR 192.168.93.7
134 INITIISADDR 192.7.1.1
134 INITIISPORT 80
134 INITBROWSERS 1180
134 INITMYWID 15695,15812
//
//Configuration Driver 135
//
135 INITIPADDR 192.168.93.7
135 INITIISADDR 192.7.1.1
135 INITIISPORT 80
135 INITBROWSERS 1180
135 INITMYWID 15813,15930
//
//Configuration Driver 136
//
136 INITIPADDR 192.168.93.7
136 INITIISADDR 192.7.1.1
136 INITIISPORT 80
136 INITBROWSERS 1180
136 INITMYWID 15931,16048
//
//Configuration Driver 137
//
137 INITIPADDR 192.168.93.7
137 INITIISADDR 192.7.1.1
137 INITIISPORT 80
137 INITBROWSERS 1180
137 INITMYWID 16049,16166
//
//Configuration Driver 138
//
138 INITIPADDR 192.168.93.7
138 INITIISADDR 192.7.1.1
138 INITIISPORT 80
138 INITBROWSERS 1180
138 INITMYWID 16167,16284
//
//Configuration Driver 139
//
139 INITIPADDR 192.168.93.7
139 INITIISADDR 192.7.1.1
139 INITIISPORT 80
139 INITBROWSERS 1180
139 INITMYWID 16285,16402
//
//Configuration Driver 140
//
140 INITIPADDR 192.168.93.8
140 INITIISADDR 192.8.1.1
140 INITIISPORT 80
140 INITBROWSERS 1180
140 INITMYWID 16403,16520
//
```

```

//Configuration Driver 141
//
141 INITIPADDR 192.168.93.8
141 INITIISADDR 192.8.1.1
141 INITIISPORT 80
141 INITBROWSERS 1180
141 INITMYWID 16521,16638
//
//Configuration Driver 142
//
142 INITIPADDR 192.168.93.8
142 INITIISADDR 192.8.1.1
142 INITIISPORT 80
142 INITBROWSERS 1180
142 INITMYWID 16639,16756
//
//Configuration Driver 143
//
143 INITIPADDR 192.168.93.8
143 INITIISADDR 192.8.1.1
143 INITIISPORT 80
143 INITBROWSERS 1180
143 INITMYWID 16757,16874
//
//Configuration Driver 144
//
144 INITIPADDR 192.168.93.8
144 INITIISADDR 192.8.1.1
144 INITIISPORT 80
144 INITBROWSERS 1180
144 INITMYWID 16875,16992
//
//Configuration Driver 145
//
145 INITIPADDR 192.168.93.8
145 INITIISADDR 192.8.1.1
145 INITIISPORT 80
145 INITBROWSERS 1180
145 INITMYWID 16993,17110
//
//Configuration Driver 146
//
146 INITIPADDR 192.168.93.8
146 INITIISADDR 192.8.1.1
146 INITIISPORT 80
146 INITBROWSERS 1180
146 INITMYWID 17111,17228
//
//Configuration Driver 147
//
147 INITIPADDR 192.168.93.8
147 INITIISADDR 192.8.1.1
147 INITIISPORT 80
147 INITBROWSERS 1180
147 INITMYWID 17229,17346
//
//Configuration Driver 148
//
148 INITIPADDR 192.168.93.8

```

```

148 INITIISADDR 192.8.1.1
148 INITIISPORT 80
148 INITBROWSERS 1180
148 INITMYWID 17347,17464
//
//Configuration Driver 149
//
149 INITIPADDR 192.168.93.8
149 INITIISADDR 192.8.1.1
149 INITIISPORT 80
149 INITBROWSERS 1180
149 INITMYWID 17465,17582
//
//Configuration Driver 150
//
150 INITIPADDR 192.168.93.8
150 INITIISADDR 192.8.1.1
150 INITIISPORT 80
150 INITBROWSERS 1180
150 INITMYWID 17583,17700
//
//Configuration Driver 151
//
151 INITIPADDR 192.168.93.8
151 INITIISADDR 192.8.1.1
151 INITIISPORT 80
151 INITBROWSERS 1180
151 INITMYWID 17701,17818
//
//Configuration Driver 152
//
152 INITIPADDR 192.168.93.8
152 INITIISADDR 192.8.1.1
152 INITIISPORT 80
152 INITBROWSERS 1180
152 INITMYWID 17819,17936
//
//Configuration Driver 153
//
153 INITIPADDR 192.168.93.8
153 INITIISADDR 192.8.1.1
153 INITIISPORT 80
153 INITBROWSERS 1180
153 INITMYWID 17937,18054
//
//Configuration Driver 154
//
154 INITIPADDR 192.168.93.8
154 INITIISADDR 192.8.1.1
154 INITIISPORT 80
154 INITBROWSERS 1180
154 INITMYWID 18055,18172
//
//Configuration Driver 155
//
155 INITIPADDR 192.168.93.8
155 INITIISADDR 192.8.1.1
155 INITIISPORT 80
155 INITBROWSERS 1180

```

```

155 INITMYWID 18173,18290
//
//Configuration Driver 156
//
156 INITIPADDR 192.168.93.8
156 INITIISADDR 192.8.1.1
156 INITIISPORT 80
156 INITBROWSERS 1180
156 INITMYWID 18291,18408
//
//Configuration Driver 157
//
157 INITIPADDR 192.168.93.8
157 INITIISADDR 192.8.1.1
157 INITIISPORT 80
157 INITBROWSERS 1180
157 INITMYWID 18409,18526
//
//Configuration Driver 158
//
158 INITIPADDR 192.168.93.8
158 INITIISADDR 192.8.1.1
158 INITIISPORT 80
158 INITBROWSERS 1180
158 INITMYWID 18527,18644
//
//Configuration Driver 159
//
159 INITIPADDR 192.168.93.8
159 INITIISADDR 192.8.1.1
159 INITIISPORT 80
159 INITBROWSERS 1160
159 INITMYWID 18645,18760

```

Driver Environment

```

if '%1'==' ' goto usage

:paramok

set WEBDRIVERNO=%1
set WEBADMBASEPORT=4300
set WEBDIAGLEVEL=2
set WEBEVENTLOG=1
set WEBEVENTHOST=
set WEBLOGLEVEL=1
set WEBSINGLETRAN=0
set WEBTPCCAUDIT=0
set WEBRTFUDGETM=110
set WEBNEWORDERPROB=4494
set WEBPAYMENTPROB=4303
set WEBORDERSTATUSPROB=401
set WEBDELIVERYPROB=401
set WEBSTOCKLEVELPROB=401
set WEBTNEWORDER=12030
set WEBTPPAYMENT=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

(common to 8 RTEs except for Host Name, Physical Address and IP Address)

```

C:\rhost>if 'ipconfig' == ' ' goto usage
C:\rhost>c:
C:\rhost>cd \webdriver
C:\webdriver>call ipconfig /all

```

Windows 2000 IP Configuration

```

Host Name . . . . . : rtel
Primary DNS Suffix . . . . . :
Node Type . . . . . : Broadcast

IP Routing Enabled. . . . . : No

WINS Proxy Enabled. . . . . : No

```

Ethernet adapter Client:

```

Connection-specific DNS Suffix . :
Description . . . . . : Broadcom NetXtreme Gigabit Ethernet
Physical Address. . . . . : 00-06-5B-39-9A-83

DHCP Enabled. . . . . : No

IP Address. . . . . : 192.1.1.2

```

```
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
DNS Servers . . . . . :
NetBIOS over Tcpi . . . . . : Disabled
```

Ethernet adapter Admin:

```
Connection-specific DNS Suffix :
Description . . . . . : Intel 8255x-based PCI Ethernet
Adapter (10/100)
Physical Address . . . . . : 00-06-5B-39-9A-82
DHCP Enabled . . . . . : No
IP Address . . . . . : 192.168.93.1
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :
DNS Servers . . . . . :
NetBIOS over Tcpi . . . . . : Disabled
```

Start RTE Cmd

```
start " RTE1 DRIVER1 " /MIN webdriver.cmd 1
start " RTE1 DRIVER2 " /MIN webdriver.cmd 2
start " RTE1 DRIVER3 " /MIN webdriver.cmd 3
start " RTE1 DRIVER4 " /MIN webdriver.cmd 4
start " RTE1 DRIVER5 " /MIN webdriver.cmd 5
start " RTE1 DRIVER6 " /MIN webdriver.cmd 6
start " RTE1 DRIVER7 " /MIN webdriver.cmd 7
start " RTE1 DRIVER8 " /MIN webdriver.cmd 8
start " RTE1 DRIVER9 " /MIN webdriver.cmd 9
start " RTE1 DRIVER10 " /MIN webdriver.cmd 10
start " RTE1 DRIVER11 " /MIN webdriver.cmd 11
start " RTE1 DRIVER12 " /MIN webdriver.cmd 12
start " RTE1 DRIVER13 " /MIN webdriver.cmd 13
start " RTE1 DRIVER14 " /MIN webdriver.cmd 14
start " RTE1 DRIVER15 " /MIN webdriver.cmd 15
start " RTE1 DRIVER16 " /MIN webdriver.cmd 16
start " RTE1 DRIVER17 " /MIN webdriver.cmd 17
start " RTE1 DRIVER18 " /MIN webdriver.cmd 18
start " RTE1 DRIVER19 " /MIN webdriver.cmd 19
start " RTE2 DRIVER20 " /MIN webdriver.cmd 20
start " RTE2 DRIVER21 " /MIN webdriver.cmd 21
start " RTE2 DRIVER22 " /MIN webdriver.cmd 22
start " RTE2 DRIVER23 " /MIN webdriver.cmd 23
start " RTE2 DRIVER24 " /MIN webdriver.cmd 24
start " RTE2 DRIVER25 " /MIN webdriver.cmd 25
```

```
start " RTE2 DRIVER26 " /MIN webdriver.cmd 26
start " RTE2 DRIVER27 " /MIN webdriver.cmd 27
start " RTE2 DRIVER28 " /MIN webdriver.cmd 28
start " RTE2 DRIVER29 " /MIN webdriver.cmd 29
start " RTE2 DRIVER30 " /MIN webdriver.cmd 30
start " RTE2 DRIVER31 " /MIN webdriver.cmd 31
start " RTE2 DRIVER32 " /MIN webdriver.cmd 32
start " RTE2 DRIVER33 " /MIN webdriver.cmd 33
start " RTE2 DRIVER34 " /MIN webdriver.cmd 34
start " RTE2 DRIVER35 " /MIN webdriver.cmd 35
start " RTE2 DRIVER36 " /MIN webdriver.cmd 36
start " RTE2 DRIVER37 " /MIN webdriver.cmd 37
start " RTE2 DRIVER38 " /MIN webdriver.cmd 38
start " RTE2 DRIVER39 " /MIN webdriver.cmd 39
start " RTE3 DRIVER40 " /MIN webdriver.cmd 40
start " RTE3 DRIVER41 " /MIN webdriver.cmd 41
start " RTE3 DRIVER42 " /MIN webdriver.cmd 42
start " RTE3 DRIVER43 " /MIN webdriver.cmd 43
start " RTE3 DRIVER44 " /MIN webdriver.cmd 44
start " RTE3 DRIVER45 " /MIN webdriver.cmd 45
start " RTE3 DRIVER46 " /MIN webdriver.cmd 46
start " RTE3 DRIVER47 " /MIN webdriver.cmd 47
start " RTE3 DRIVER48 " /MIN webdriver.cmd 48
start " RTE3 DRIVER49 " /MIN webdriver.cmd 49
start " RTE3 DRIVER50 " /MIN webdriver.cmd 50
start " RTE3 DRIVER51 " /MIN webdriver.cmd 51
start " RTE3 DRIVER52 " /MIN webdriver.cmd 52
start " RTE3 DRIVER53 " /MIN webdriver.cmd 53
start " RTE3 DRIVER54 " /MIN webdriver.cmd 54
start " RTE3 DRIVER55 " /MIN webdriver.cmd 55
start " RTE3 DRIVER56 " /MIN webdriver.cmd 56
start " RTE3 DRIVER57 " /MIN webdriver.cmd 57
start " RTE3 DRIVER58 " /MIN webdriver.cmd 58
start " RTE3 DRIVER59 " /MIN webdriver.cmd 59
start " RTE4 DRIVER60 " /MIN webdriver.cmd 60
start " RTE4 DRIVER61 " /MIN webdriver.cmd 61
start " RTE4 DRIVER62 " /MIN webdriver.cmd 62
start " RTE4 DRIVER63 " /MIN webdriver.cmd 63
start " RTE4 DRIVER64 " /MIN webdriver.cmd 64
start " RTE4 DRIVER65 " /MIN webdriver.cmd 65
start " RTE4 DRIVER66 " /MIN webdriver.cmd 66
start " RTE4 DRIVER67 " /MIN webdriver.cmd 67
start " RTE4 DRIVER68 " /MIN webdriver.cmd 68
start " RTE4 DRIVER69 " /MIN webdriver.cmd 69
start " RTE4 DRIVER70 " /MIN webdriver.cmd 70
start " RTE4 DRIVER71 " /MIN webdriver.cmd 71
start " RTE4 DRIVER72 " /MIN webdriver.cmd 72
start " RTE4 DRIVER73 " /MIN webdriver.cmd 73
start " RTE4 DRIVER74 " /MIN webdriver.cmd 74
start " RTE4 DRIVER75 " /MIN webdriver.cmd 75
start " RTE4 DRIVER76 " /MIN webdriver.cmd 76
start " RTE4 DRIVER77 " /MIN webdriver.cmd 77
start " RTE4 DRIVER78 " /MIN webdriver.cmd 78
start " RTE4 DRIVER79 " /MIN webdriver.cmd 79
start " RTE5 DRIVER80 " /MIN webdriver.cmd 80
start " RTE5 DRIVER81 " /MIN webdriver.cmd 81
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start " RTE5 DRIVER82 " /MIN webdriver.cmd 82
start " RTE5 DRIVER83 " /MIN webdriver.cmd 83
start " RTE5 DRIVER84 " /MIN webdriver.cmd 84
start " RTE5 DRIVER85 " /MIN webdriver.cmd 85
start " RTE5 DRIVER86 " /MIN webdriver.cmd 86
start " RTE5 DRIVER87 " /MIN webdriver.cmd 87
start " RTE5 DRIVER88 " /MIN webdriver.cmd 88
start " RTE5 DRIVER89 " /MIN webdriver.cmd 89
start " RTE5 DRIVER90 " /MIN webdriver.cmd 90
start " RTE5 DRIVER91 " /MIN webdriver.cmd 91
start " RTE5 DRIVER92 " /MIN webdriver.cmd 92
start " RTE5 DRIVER93 " /MIN webdriver.cmd 93
start " RTE5 DRIVER94 " /MIN webdriver.cmd 94
start " RTE5 DRIVER95 " /MIN webdriver.cmd 95
start " RTE5 DRIVER96 " /MIN webdriver.cmd 96
start " RTE5 DRIVER97 " /MIN webdriver.cmd 97
start " RTE5 DRIVER98 " /MIN webdriver.cmd 98
start " RTE5 DRIVER99 " /MIN webdriver.cmd 99
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start " RTE6 DRIVER100 " /MIN webdriver.cmd 100
start " RTE6 DRIVER101 " /MIN webdriver.cmd 101
start " RTE6 DRIVER102 " /MIN webdriver.cmd 102
start " RTE6 DRIVER103 " /MIN webdriver.cmd 103
start " RTE6 DRIVER104 " /MIN webdriver.cmd 104
start " RTE6 DRIVER105 " /MIN webdriver.cmd 105
start " RTE6 DRIVER106 " /MIN webdriver.cmd 106
start " RTE6 DRIVER107 " /MIN webdriver.cmd 107
start " RTE6 DRIVER108 " /MIN webdriver.cmd 108
start " RTE6 DRIVER109 " /MIN webdriver.cmd 109
start " RTE6 DRIVER110 " /MIN webdriver.cmd 110
start " RTE6 DRIVER111 " /MIN webdriver.cmd 111
start " RTE6 DRIVER112 " /MIN webdriver.cmd 112
start " RTE6 DRIVER113 " /MIN webdriver.cmd 113
start " RTE6 DRIVER114 " /MIN webdriver.cmd 114
start " RTE6 DRIVER115 " /MIN webdriver.cmd 115
start " RTE6 DRIVER116 " /MIN webdriver.cmd 116
start " RTE6 DRIVER117 " /MIN webdriver.cmd 117
start " RTE6 DRIVER118 " /MIN webdriver.cmd 118
start " RTE6 DRIVER119 " /MIN webdriver.cmd 119
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start " RTE7 DRIVER120 " /MIN webdriver.cmd 120
start " RTE7 DRIVER121 " /MIN webdriver.cmd 121
start " RTE7 DRIVER122 " /MIN webdriver.cmd 122
start " RTE7 DRIVER123 " /MIN webdriver.cmd 123
start " RTE7 DRIVER124 " /MIN webdriver.cmd 124
start " RTE7 DRIVER125 " /MIN webdriver.cmd 125
start " RTE7 DRIVER126 " /MIN webdriver.cmd 126
start " RTE7 DRIVER127 " /MIN webdriver.cmd 127
start " RTE7 DRIVER128 " /MIN webdriver.cmd 128
start " RTE7 DRIVER129 " /MIN webdriver.cmd 129
start " RTE7 DRIVER130 " /MIN webdriver.cmd 130
start " RTE7 DRIVER131 " /MIN webdriver.cmd 131
start " RTE7 DRIVER132 " /MIN webdriver.cmd 132
start " RTE7 DRIVER133 " /MIN webdriver.cmd 133
start " RTE7 DRIVER134 " /MIN webdriver.cmd 134
start " RTE7 DRIVER135 " /MIN webdriver.cmd 135
start " RTE7 DRIVER136 " /MIN webdriver.cmd 136
start " RTE7 DRIVER137 " /MIN webdriver.cmd 137
start " RTE7 DRIVER138 " /MIN webdriver.cmd 138
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start " RTE7 DRIVER139 " /MIN webdriver.cmd 139
start " RTE8 DRIVER140 " /MIN webdriver.cmd 140
start " RTE8 DRIVER141 " /MIN webdriver.cmd 141
start " RTE8 DRIVER142 " /MIN webdriver.cmd 142
start " RTE8 DRIVER143 " /MIN webdriver.cmd 143
start " RTE8 DRIVER144 " /MIN webdriver.cmd 144
start " RTE8 DRIVER145 " /MIN webdriver.cmd 145
start " RTE8 DRIVER146 " /MIN webdriver.cmd 146
start " RTE8 DRIVER147 " /MIN webdriver.cmd 147
start " RTE8 DRIVER148 " /MIN webdriver.cmd 148
start " RTE8 DRIVER149 " /MIN webdriver.cmd 149
start " RTE8 DRIVER150 " /MIN webdriver.cmd 150
start " RTE8 DRIVER151 " /MIN webdriver.cmd 151
start " RTE8 DRIVER152 " /MIN webdriver.cmd 152
start " RTE8 DRIVER153 " /MIN webdriver.cmd 153
start " RTE8 DRIVER154 " /MIN webdriver.cmd 154
start " RTE8 DRIVER155 " /MIN webdriver.cmd 155
start " RTE8 DRIVER156 " /MIN webdriver.cmd 156
start " RTE8 DRIVER157 " /MIN webdriver.cmd 157
start " RTE8 DRIVER158 " /MIN webdriver.cmd 158
start " RTE8 DRIVER159 " /MIN webdriver.cmd 159
```

Appendix E - Disk Storage

TPC-C 60-Day Disk Space Requirements					
Warehouses	19,040	tpmC	234,325.10	tpmC/W	12.31
Table	Initial Rows	Data KB	Index KB	Extra 5% KB	Total With 5% KB
Warehouse	19,040	2,064	408	124	2,596
District	190,400	21,456	1,104	1,128	23,688
Customer	571,200,000	117,169,232	25,255,960	7,121,260	149,546,452
Customer.Text	571,200,000	341,653,408		17,082,670	358,736,078
History (D)	571,200,000	34,101,496	133,248		34,234,744
Order (D)	571,200,000	18,651,432	42,888		18,694,320
New-Order	171,360,000	3,053,192	7,912	153,055	3,214,159
Order-Line (D)	5,711,986,214	380,799,088	901,296		381,700,384
Stock	1,904,000,000	594,855,872	1,259,744	29,805,781	625,921,397
Item	100,000	8,744	1,000	487	10,231
Totals KB		1,490,315,984	27,603,560	54,164,505	1,572,084,049
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	132	3,020	398,640	383,796	390,605
mssql70_cs_fg	132	5,780	762,960	757,293	757,293
mssql70_ord_fg	132	3,650	481,800	394,149	480,009
Total Allocated MB			1,643,442	1,535,280	1,627,949
MB					
Dynamic Space MB	423,391	Sum of data for orders, order_line & history			
Static Space	1,111,848	Sum of data+index+5% - Dynamic Space			
Free Space	108,204	Total allocated space - (Dynamic & Static Spaces)			
Daily Growth	83,371	(Dynamic Space / (W * 62.5)) * tpmC			
Daily Spread	0	Free space - 1.5 * Daily growth (zero if negative)			
		0 SQL Server can be configured to eliminate Daily Spread			
60 Day Space MB	6,114,086	Static Space + 60 * (Daily Growth + Daily Spread)			
60 Day Space GB	5,970.79				
8 hr log GB	506.48	(need double for mirroring)			
Disk Capacity MB	33534	32.748 GB	Capacity of 36GB disks (10,000 RPM)		
	16744	16.352 GB	Capacity of 18GB disks (15,000 RPM)		
Space Usage	GB Needed	Disks Priced	GB Priced		
60-day space DB	5970.79 GB	796	13015.84 GB	18GB drives	
		0	0.00 GB	36GB drives	
Total DB		796	13015.84 GB		
8-hr log+mirror	1012.96 GB	32	1047.94 GB	36GB drives	
OS, SQL Server	8.02 GB	2	65.50 GB	36GB drives	
Total space	6991.77 GB	830	14129.28 GB	13.8 TB	

TPC-C Dynamic Table Growth Rates for 8 Hours					234,325.10 tpmC	
Tables	Initial (KB)	Final (KB)	Change(KB)	KB / New-Order	8-Hr MB	
History	34,234,744	40,277,224	6,042,480	0.0620	40,240.81	
Orders	18,694,320	24,704,208	6,009,888	0.0617	25,027.89	
Order_line	381,700,384	450,193,552	68,493,168	0.7026	449,929.87	
Dynamic	434,629,448	515,174,984	80,545,536	0.8263	515,198.57	
New_order	3,061,104	4,891,368	1,830,264	0.0188	5,051.63	
Static						
Log	7,266,360	461,258,027	453,991,667	4.6572	518,637.20	506.482 GB
SUM(d_next_o_id)	571,390,400	668,873,067	97,482,667			

Appendix F - Third-Party Price Quotations

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399

Tel 425 882 8080
Fax 425 936 7329
<http://www.microsoft.com/>

Microsoft

December 2, 2002

Unisys Corporation
Glenn Weeks
MS237
25725 Jeronimo Road
Mission Viejo, CA 92691

Mr. Weeks:

Here is the information you requested regarding pricing for several Microsoft products to be used in conjunction with your TPC-C benchmark testing.

All pricing shown is in US Dollars (\$).

Part Number	Description	Unit Price	Quantity	Price
C11-00821	Windows 2000 Server <i>Server license only - No CALs Discount Schedule: Open Program - No Level Unit Price reflects a 8% discount from the retail unit price of \$799.</i>	\$738	8	\$5,904
254-00170	Visual C++ .Net Standard <i>No discounts applied</i>	\$109	1	\$109
PRO-PRORS-16U-01	Database Server Support Package <i>1 Year Term</i>	\$1,950	3	\$5,850

All products are currently orderable through Microsoft's normal distribution channels.

This quote is valid for the next 90 days.

If we can be of any further assistance, please contact Jamie Reding at (425) 703-0510 or jamiere@microsoft.com.

Reference ID: PCglwe0202121135
Please include this Reference ID in any correspondence regarding this price quote.



Advanced Systems Division

Quote # DM021205-UN011

Dec 5, 2002

To: Unisys Corporation TPC-C

Qty	Prod #	Description	Unit Price	Net Price
ES7000 Server				
1	ES7321231-GD	SYS: ES7000 Orion 230, 32x1.6GHz Procs, 16 GB Mem.	\$489,600.00	\$489,600.00
3	RAM7-16G	MEM: 16GB, 1 GB DIMMs	\$23,573.00	\$70,719.00
9	FC76222-P64	CTRL: Fibre Channel HBA, 2-Port, 64-bit PCI	\$2,720.00	\$24,480.00
8	PCI10001-CXG	CTRL: cLAN, PCI Host Adapter & Cable	\$721.00	\$5,768.00
1	PCI7602-P64	CTRL: 2Ch SCSI, U160, PCI	\$544.00	\$544.00
2	ES70001-UIF	I/F: Monitor, 15-inch Color, Kybrd, Mse & Cable	\$544.00	\$1,088.00
1	WNQ323232-LIT	O/S: Microsoft Windows .NET Datacenter & SQL Package	\$476,907.00	\$476,907.00
ESM7900 Storage				
896	ESM18304-F94	DISK: 18GB Drive, 15K FC, SCA + 10% spares	\$728.00	\$652,288.00
38	ESM36202-F94	DISK: 36GB Drive, 10K FC, SCA + 10% spares	\$928.00	\$35,264.00
79	ESM7200-DAE	DAE: Expansion Enclsr, w/ 0 Disk	\$4,087.00	\$322,873.00
10	ESM7900-DPE	DPE: 2 RAID Cntrl, 1GB Cache ea., 0 Disk	\$44,200.00	\$442,000.00
1	ESM7700-W2K	SYS MGT: Storage Agent, Monitor, Call Home & ATF	\$1,661.00	\$1,661.00
3	HSC30438-S16	SWTCH: Switch & Software, 16-port FC, 2Gbit/s	\$18,936.00	\$56,808.00
39	HSC50400-SFS	ACC: SFP, 2Gb/s Shortwave	\$218.00	\$8,502.00
20	CBL170-10	CBL: FC, 50um Dupx, LC->SC Conn's, 10m	\$277.00	\$5,540.00
14	CBL171-10	CBL: FC, 50um Dupx, LC->LC Conn's, 10m	\$279.00	\$3,906.00
20	SFR9-PWR	PWR: Distribution Strip, 9-Plug, 220V	\$295.00	\$5,900.00
20	USE1936-LC6	CBL: Power, U.S. (Domestic), C20 - L6-20P	\$126.00	\$2,520.00
10	HRT361934-OFT	CAB: 36U x 19" x 34" Open Front Cabinet	\$1,473.00	\$14,730.00
10	HRT3619-RDR	DOOR: 36U x 19", Rear	\$368.00	\$3,680.00
10	HRT3634-SDS	PNL: 36U x 34" Side Skins, L&R HRT	\$589.00	\$5,890.00
10	RM1936-FOT	INSTL: Stabilizer Foot	\$126.00	\$1,260.00
ES3020L Servers				
8	ESL30201-240	SYS: ES3020L w/ 1x 2.4GHz Proc., 0MB Mem	\$1,413.00	\$11,304.00
8	CPL3020241-512	PROC:1x 2.4GHz Intel Xeon/512KB Cache	\$722.00	\$5,776.00
8	DIM3000022-1GB	MEM: 1GB, 2x512MB DDR DRAM PC133ECC	\$723.00	\$5,784.00
8	HBP3020101-51	RCK: ESL2026 Disk Backpanel, 1x4	\$205.00	\$1,640.00
8	HDM18110-DC4	DISK: 18GB 10Krpm 3.5 Internal	\$258.00	\$2,064.00
8	PCI10001-CXG	CTRL: cLAN, PCI Host Adapter & Cable	\$721.00	\$5,768.00
8	ESL3020-VRL	RCK: ES3020L Universal Rack Kit	\$258.00	\$2,064.00
1	SWC81-SXR	SWTCH: Switch, 8-port KVM	\$1,179.00	\$1,179.00
8	CBL121-SWC	CBL: Cable, KVM, 12 foot	\$111.00	\$888.00
1	KBR28301-SXR	KBD: Keyboard & Drawer, Rackmount	\$258.00	\$258.00
1	MON2145-LCD	MON: Display, Rackmount LCD	\$1,989.00	\$1,989.00
2	SFR9-PWR	PWR: Distribution Strip, 9-Plug, 220V	\$295.00	\$590.00
2	USE1936-LC6	CBL: Power, U.S. (Domestic), C20 - L6-20P	\$126.00	\$252.00
1	HRT361934-OFT	CAB: 36U x 19" x 34" Open Front Cabinet	\$1,473.00	\$1,473.00
1	HRT3619-RDR	DOOR: 36U x 19", Rear	\$368.00	\$368.00
1	HRT3634-SDS	PNL: 36U x 34" Side Skins, L&R HRT	\$589.00	\$589.00
1	RM1936-FOT	INSTL: Stabilizer Foot	\$126.00	\$126.00
1		Large Volume Cash Discount	(\$267,404.00)	(\$267,404.00)
		Prices may vary when items are purchased separately.		
		Disks come with a 3 year return-to-factory warranty,		
		7 day replenishment. Quote valid for 90 days.		

TOTAL

\$2,406,636.00